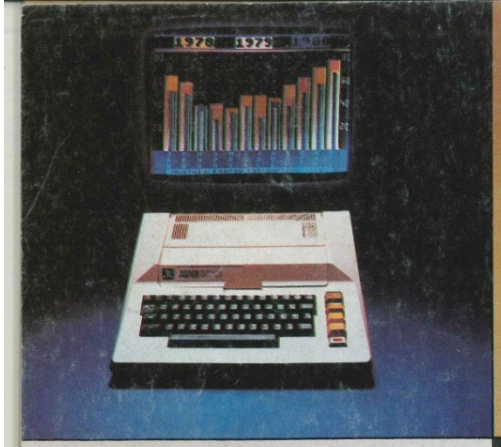

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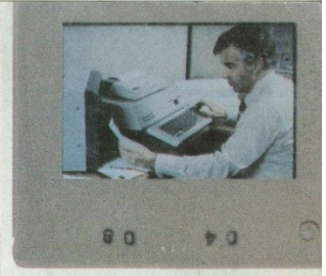

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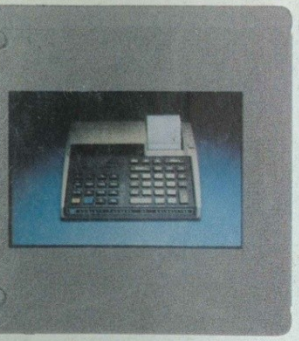

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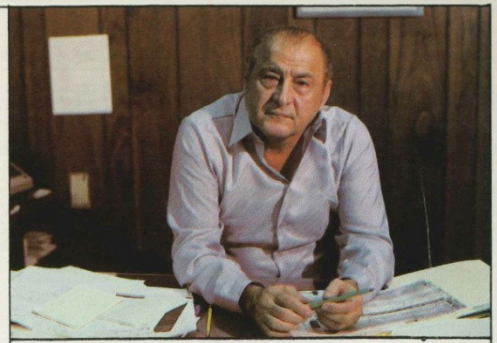
Firms not listed or well rated can order by either paying in advance or requesting C.O.D. shipments, we prefer a cashier's check or certified check or even cash. Purchases made with company or personal checks are subject to verification before shipment, this can cause several days delay.
For our customers convenience we accept both VISA and MASTER CHARGE credit cards.
Individuals can expedite their order by paying in full, in advance, by cashier's check or money order, or by using their charge card; or by sending a deposit of at least 25% in a like manor, and paying the balance upon delivery with cashier's check, money order or cash.
Orders by employees of large firms accompanied by a photocopy of their badge and a company letter-head can be paid by personal check, if the goods are for personal use.
On orders placed by telephone and paid by charge cards, it is our policy to request confirmation in writing, including shipping address and a telephone number at your place of employment.

PRICING

All prices in this catalog reflect your net cost, they do not include freight and handling charges, Federal, State or Local Taxes, or special crating and documentation charges for foreign shipments.
Because of the low margin of profit we add, prices are subject to change at any time and without notice. Increases and decreases in our cost will influence the amount we must charge. Most manufacturers reserve the right to change specifications with out notice.
You will be notified of price changes when you order.



Francis Ravel, President Olympic Sales Company

TERMS AND CONDITIONS

All sales are final, subject to availability of goods, and F.O.B. our Los Angeles warehouse.

MODE OF SHIPMENT:

We prefer to ship via United Parcel Service, either surface or Blue Label (AIR), at the customers request. Shipments exceeding their 50 lb per item or 100 lb per shipment limits will be sent freight collect via Motor Freight.

DAMAGED SHIPMENTS

We inspect each carton prior to shipment. To protect your interests we suggest that you thoroughly inspect each item before accepting delivery. If damage has occured, it should be noted on the freight bill and a claim filed immediately with the carrier. Although we take special care to ensure the safe arrival of your merchandise, our responsability ceases when the shipment is accepted by the carrier.

RETURNS

Write or call our customer service department (213) lines only, to secure a written authorization before attempting any return. Shipments without prior authorization will not be accepted. Returns must be shipped pre-paid, are subject to inspection before credit is issued, and may be subject to a restocking charge of 25%.

CUSTOMER SERVICE / ORDER INQUIRY

Questions concerning an order you have placed should be directed to our customer service department, through the (213) lines, the (800) numbers are for order taking only, and cannot be transfered out of that department.

SERVICE ON APPLE PRODUCTS

Olympic Sales Co. is an authorized servicing dealer for Apple microcomputer products, and will provide in warranty and perform out of warranty service and repairs at many of its locations.
When requesting in warranty repairs or service be sure to include your sales receipt for proof of purchase date.

WARRANTY SERVICE

We take pleasure and pride in selling primarily well known and established major brands of equipment. These firms each guarantee and/or warranty their respective equipment.
Information about the type and length of coverage of any item can be obtained by contacting our customer service department.
Warranty service can be obtained by shipping or taking the defective unit, along with your receipt for proof of date of purchase, to the nearest servicing representative of the manufacturer.
It is generally a good idea to retain the shipping cartons for products to aid in their shfe transport.
All warranties are subject to the normal use of the product and charges are customarily made for repairs to equipment which has been abused or otherwise damaged.

OLYMPIC SALES COMPANY DOES NOT GUARANTEE AND/OR WARRANTY ANY OF THE PRODUCTS SOLD OR OFFERED BY THEM. DO NOT RETURN DEFECTIVE MERCHANDISE TO OLYMPIC SALES, IT WILL BE REFUSED.

EAR RESEARCH INSTITUTE

World Center of Continuing Attack
On Cause and Cure of Ear Problems

I am deeply grateful to the Ear Research Institute and its dedicated members for saving my life and the lives of hundreds of acoustic neuroma patients. I ask you to be part of this great project by sending your contribution to this splendid research organization.
Send your contribution and ask for more information regarding the Ear Research Institute, 256 South Lake Street, Los Angeles, California 90057
Contributions are tax deductible...KINDLY HELP, SO ALL MAY HEAR.

FRANCIS RAVEL, President *Olympic Sales Company*

In contrast to its humble beginning in a desk drawer with a part-time secretary for a staff, today the Ear Research Institute is affiliated with the University of Southern California School of Medicine. Its Trustees are recognized leaders in finance, business, technology, law and medicine.

Imagine yourself in these situations only a few short years ago:

- A business or professional man facing the end of a career because the tiny tuning fork in your ear (the stapes bone) has quit functioning and you are becoming progressively harder and harder of hearing.
- An astronaut grounded for dizziness after years of preparing for a mission to the moon.
- A parent told that there was no hope of hearing for a child born without an eardrum or that nothing could be done to restore hearing to a child with an infection of the middle ear or mastoid.
- A person in the prime of life told of an acoustic neuroma and given a choice of eventual disability and death or of an operation which could leave you disfigured and deaf if you beat the 3-to-2 odds of surviving the operation.

Or today, imagine that no group is working on:

- Devices to restore hearing to those living in a silent world due to so-called nerve deafness.
- Objective methods of testing hearing in infants.
- Understanding and alleviating the causes of headnoises or ringing in the ears so severe you literally cannot live with them.

In its 30 years, the Ear Research Institute in Los Angeles has become the world center for attacking such problems. The Institute has played a vital role in conquering the problems of the middle ear, chronic ear disease, dizziness, and reconstructive surgery. It has blazed a trail into the unexplored regions of the inner ear and so-called "nerve deafness." And, always, the Institute has shared its findings with others for the maximum benefit of sufferers from diseases of the ear.

- Many people are leading happy, productive lives because of a wire loop-gelfoam technique to improve hearing where loss is due to changes in the stapes.
- The astronaut underwent a new operation providing a shunt mechanism to relieve vertigo — and led a mission to the moon.
- Hearing has been restored to children through transplants and reconstruction techniques.
- The mortality rates in operations for acoustic neuromas have been cut from 60 per cent to less than 2 percent.

. . . All through techniques sponsored at the Institute.

The aim of the Institute is to bridge the gap between basic research and widespread application — to bring relief and rehabilitation at the earliest practical date to persons suffering severe or total hearing impairment and related disorders of balance, facial nerve impairment, or tinnitus.

Utilizing basic research and capabilities elsewhere (where possible to avoid useless duplication) the Institute works to:

- Develop approaches to resolving disorders through applied research.
- Test the practicality through selective clinical application.
- Communicate proven solutions to practicing physicians everywhere.

Today it is engaged in:

- Establishing the effectiveness of sodium fluoride treatments in preventing further hearing nerve deterioration due to cochlear otosclerosis.
- Major effort to determine the cause and treatment of tinnitus.
- A program of electrophysiologic testing which promises more definitive and earlier diagnosis of disorders of the inner ear and its associated nerve systems.
- A continuing program in the implant of an electronic device in the inner ear, or cochlea, to provide the sensation of sound to the totally deaf, a work hailed at the International Conference in 1973 as a development with the tremendous potential of going a long way toward emptying the deaf schools of the world.

EAR RESEARCH INSTITUTE
World Center of Continuing Attack
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"WE WILL BEAT ANY DEAL"

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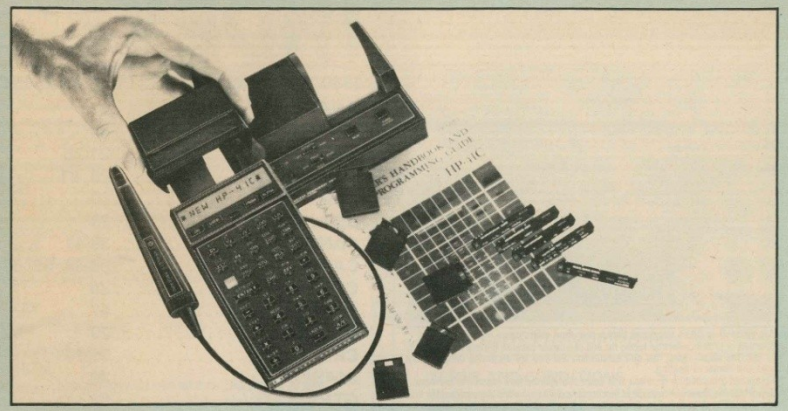


INTRODUCING HEWLETT-PACKARD'S HP-41C.

A CALCULATOR. A SYSTEM. A WHOLE NEW STANDARD.

Alphanumeric Fully Programmable

The Calculator.

The new HP-41C incorporates the latest in calculator technology to give you the most powerful personal calculator Hewlett-Packard has ever designed. Power that begins with 63 data storage registers or up to 400 lines of program memory and can expand to 319 registers for data storage or over 2,000 lines of program memory. Or any combination. While at the same time, the HP-41C sets a new standard in ease-of-use. Its alphanumeric capabilities provide communication in words as well as numbers, so operation is simple even for the novice. And you can customize the keyboard to meet special needs. Add to this Continuous Memory, new heights in programming ease and sophistication, the added capabilities of optional peripherals, and RPN logic, and you have the HP-41C—a genuine contribution to calculator technology from Hewlett-Packard.

Communication with the HP-41C.

The HP-41C's alphanumeric capability lets you name and label programs, functions, variables, constants—and prompt for data with words or sentences. Status annunciators indicate mode conditions. Messages pinpoint calculation errors and ten different tones provide aural feedback. And the HP-41C utilizes a liquid-crystal display (LCD) that is easy to read whether you're in the office or out in bright sunlight.

Customization to Your Own Design.

There are over 130 separate operations in the function library and 58 functions right on the keyboard. And, you can reassign any standard function, any programs you've written, or programs provided in the Application Modules—to any keyboard location you wish. Blank keyboard overlays let you notate these assignments.

Continuous Memory Saves Everything.

Continuous Memory preserves all your program, data and key assignments even when the calculator is turned off. As a result, you can program frequently needed calculations once and call them up again and again. This new capability means reduced power consumption and longer battery life.

Enhanced Programmability.

With the HP-41C there is no complicated language to learn. And alpha capability lets you label programs with easy-to-remember names. Each program is autonomous and each can have up to 99 local labels for branching within a program. The HP-41C also features: up to 6 levels of subroutines, 10 conditional tests, 56 internal flags, powerful loop control, indirect addressing, and local and global branching.

Optional Peripherals.

Adding any or all of the optional plug-in peripherals and modules to the HP-41C expands its capabilities to keep pace with your growing computational requirements.

Physical Specifications:

▪ Length:	14.4 cm (5.7")
▪ Width:	7.9 cm (3.0")
▪ Height:	3.3 cm (1.3")

The HP-41C Alphanumeric Fully Programmable Calculator comes complete with:

- HP-41C Owner's Handbook and Programming Guide
- A tough pliable carrying case
- Four type N batteries
- Overlay packet
- HP-41C Quick Reference Card
- HP-41C Standard Applications Book
- Module Holder
- A free, one year subscription to *HP Key Notes*, the HP programmable calculator user's newsletter.
- Subscription form for the Hewlett-Packard User's Library.

The System.

Expand System Capabilities.

Standing alone, the HP-41C is a powerful programmable problem-solving calculator. Adding the optional plug-in peripherals and modules easily gives the HP-41C increased capability and adds new dimensions in flexibility. It can become a printing calculator, can save hundreds of programs on magnetic cards, or can even become a "specialized" problem-solving machine. You can plug in any number of options, up to four, in any combination that you need.

Self-Contained Peripherals.

Each quick-connect peripheral and module is self-contained, with its own set of functions that can be added to the calculator's existing function library. And each is fully portable, coming complete with what you need for immediate use—including comprehensive instructions.

Memory Modules

These handy Memory Modules can actually quintuple the HP-41C's memory. Just plug-in as many as you need—up to four—to increase data storage and program memory. Each memory module contains 64 data storage registers or up to 400 lines of program memory or any combination you select.

Like the calculator itself the memory modules have Continuous Memory. When installed in the HP-41C, a module maintains data and program lines even when the calculator is turned off.

Card Reader

The HP-41C Card Reader is a valuable option which lets you save programs and data on small magnetic cards. This extra-smart card reader keeps track of cards as they are read and it even prompts you for the next card. A security feature permits a program to be run but not reviewed or altered. An added bonus is that it also accepts program cards from the HP-67 and HP-97, although some programs may require additional memory modules.

Printer

The HP-41C Printer is a whisper-quiet thermal printer which easily plugs into the calculator. It gives you numeric upper- and lower-case alpha, and double-wide characters as well as special characters you may design. And it performs high resolution plotting routines.

Optical Wand

The wand allows you to load programs and data into the HP-41C quickly and easily. Plugged into one of the HP-41C ports the wand reads bar codes from a printed page, translating these codes into HP-41C program and data information and loading it into the calculator. Long programs can be loaded in a matter of seconds. HP-41C Solutions Books and Users' Library programs will be available with printed bar codes. (Wand and bar codes available later this year.)

Application Modules

Each preprogrammed Application Module turns the HP-41C into an answer machine for a particular discipline. Whether you're an engineer or technician, student or scientist, business person or professional, you'll find an Application Module to solve problems in your area of interest. Each comes with a comprehensive manual as well as a keyboard overlay. Areas of application include: Aviation, Clinical Lab and Nuclear Medicine, Circuit Analysis, Financial Decisions, Mathematics, Securities, Statistics, Stress Analysis, Structural Analysis, Surveying, and others . . .

A Whole New Standard

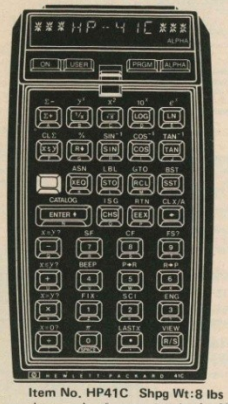
The HP-41C is more than a breathtaking list of functions and options. It is a whole new standard in personal calculators. Its power, flexibility, and ease-of-use are the result of a remarkable synthesis of the finest state-of-the-art developments and traditional Hewlett-Packard human engineering.

HP-41C

A CALCULATOR. A SYSTEM. A WHOLE NEW STANDARD.

A CALCULATOR.

Your Cost
$249.95



Item No. HP41C Shpg Wt:8 lbs

The new HP-41C from Hewlett-Packard is a powerful programmable calculator that features: an LCD display with alphanumeric capability; 63 registers of data storage or up to 400 lines of program memory—expandable to 319 registers or up to 2,000 program lines; up to 6 levels of subroutines; 10 conditionals and 56 internal flags; specific loop control; indirect addressing; local and global branching; Continuous Memory; RPN logic.

The HP-41C lets you reassign any standard function, any programs you've written, or programs provided in the Application Modules—to any keyboard location you want. And of course Hewlett-Packard backs the HP-41C with total software support including an Owner's Manual and thousands of programs in the HP-41C Applications Pacs, Solutions Books, and the HP Users' Library.

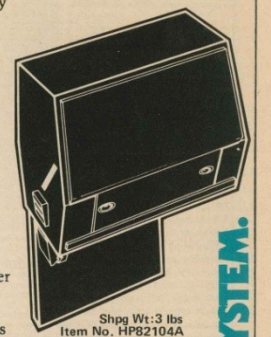
Retail:$295.00

Peripherials HP-41C

The Card Reader

The HP-41C Card Reader is a valuable option that lets you save programs and alphabetic and numerical data on magnetic cards. Merely pass the appropriate magnetic card through the card reader and all the information on the card is instantly placed in the HP-41C, ready for use.

Your Cost
$182.75



Shpg Wt:3 lbs
Item No. HP82104A

Retail:$215.00

The "extra-smart" card reader quickly reads cards whether under your control or that of a program; it keeps track of cards as they are read; and it even prompts you for the next card. And if you wish, you can ensure "program security"—steps cannot be reviewed although the program can be executed.

As an added bonus, the HP-41C Card Reader also accepts program cards from the HP-67 and HP-97, automatically translating programs into HP-41C code.

A SYSTEM.

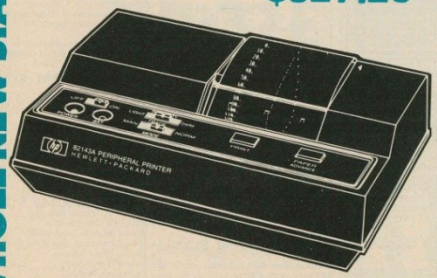
The Printer (for HP-41C)

A WHOLE NEW STANDARD.

The HP-41C Printer is a whisper-quiet thermal printer which easily plugs into the calculator. The printer gives you numeric, upper- and lower-case alpha, double-wide characters, character plotting, and an intensity control for optimum contrast and readability.

It even allows you to define your own "special" characters. The printer is completely

Your Cost
$327.25



portable and provides a valuable aid in editing programs or long calculations. You see everything at once, clearly, on tape.

Retail:$385.00

Shpg Wt:8 lbs Item No. HP82143A

The Wand

Introducing the Wand, Hewlett-Packard's **new** bar code scanning companion to the powerful HP-41C calculator. If you thought loading and programming the HP-41C was easy before, the Wand and bar code now make it virtually effortless.

You can load data. Load programs. Even execute functions with the Paper bar code Keyboard. All with a swift pass of the Wand. Bar code makes it all quick, easy and accurate. Best of all, the Wand opens the most inexpensive doorway to your professional solutions, HP's vast library of HP-41C software.

Your Cost
$109.95

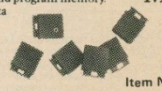
Item No. HP82153A

Retail:$125.00

The Wand from Hewlett-Packard: it saves time, speeds entry, ensures accuracy. And it's another good reason why the HP-41C is the personal calculator standard for professionals. **Shpg Wt:2 lbs**

Memory Modules

These handy Memory Modules can actually quintuple the HP-41C calculator's memory. You simply plug in as many Memory Modules as you need—up to four—to increase data storage and program memory. A single module contains 64 data storage registers, or up to 400 lines of program memory—or any combination of data storage and program memory. And like the calculator itself, the Memory Modules have Continuous Memory.



Your Cost
$42.95

Item No. HP82106A

HP-41C Memory Modules are a low-cost way of expanding your computational capabilities to meet your increasing application needs and programming expertise.

Shpg Wt:1 lb
Retail:$45.00

HEWLETT PACKARD

HP-41C Software

Shpg wt:1 lb each

When you buy the HP-41C, you have available a new standard in customer support. You will soon be able to choose from 16 Application Pacs or 26 Solutions Books to find the solutions for your need.
HP-41C software has been carefully designed to effectively increase your problem-solving potential by adding power, flexibility, and versatility to your calculator. And HP-67 and HP-97 magnetic card pacs are compatible, although some programs require additional memory modules. By utilizing any of these software solutions you can make your calculator a highly specialized tool in seconds.

HP-41C Application Pacs

HP-41C Application Pacs are complete with detailed manuals including examples, and plug-in Application Modules that increase the versatility of the HP-41C—

Choose from:

Aviation HP15018 $45.00
- Flight Management
- General Aircraft Weight and Balance
- Determing In-Flight Winds
- Flight Plan
- Position by One or Two VORs
- Course and Speed Corrections

Clinical Lab and Nuclear Medicine HP15024 $45.00
Clinical Chemistry
- Beer's Law
- Body Surface Area
- Creatinine Clearance
- Blood Acid-Base Status
- Oxygen Saturation and Content
- Red Cell Indices

Nuclear Medicine
- Total Blood Volume
- Thyroid Uptake
- Radioactive Decay Corrections

Radioimmunoassay Statistics
- Basic Statistics
- Chi-square Evaluation and Distribution
- t Statistics
- t Distribution

Circuit Analysis HP15006 $45.00
- General Network Analysis
- Ladder Network Analysis

Financial Decisions HP15004 $45.00
- Compound Interest Solutions
- Internal Rate of Return
- Compound Interest Solutions
- Internal Rate of Return
- Modified Internal Rate of Return (FMRR)
- Net Present Value
- Loan Amortization Schedules
- Depreciation Schedules
- Bond Price and Yield
- Days Between Dates

Mathematics HP15003 $45.00
- Matrix Operations
- Solution to f(x) = 0 on an Interval
- Polynomial Solutions/Evaluation
- Numerical Integration
- Differential Equations
- Fourier Series
- Complex Operations
- Hyperbolics
- Triangle Solutions
- Coordinate Transformations

Securities HP15026 $45.00
- Bond/Note Price and Yield
- Routines for Option Writers Using the Black-Scholes Evaluation Method
- Warrant and Option Hedging
- Yield on Call Option Sales
- Butterfly Options
- Bull Spread Option Strategy
- Convertible Security Analysis
- Convertible Bond Investment Analysis
- Stock Portfolio Valuation
- Bond Speculation Using Margin

Statistics HP15002 $45.00
- Basic Statistics for Two Variables
- Moments, Skewness and Kurtosis
- Analysis of Variance (One Way)
- Analysis of Variance (Two Way, No Replications)
- Analysis of Covariance (One Way)
- Curve Fitting (Linear, Exponential, Logarithmic, and Power Curve)
- Multiple Linear Regression
- Polynomial Regression
- t Statistics
- Chi-Square Evaluation
- Contingency Table
- Spearman's Rank Correlation Coefficient
- Normal and Inverse Normal Distribution
- Chi-Square Distribution

Structural Analysis for Mechanical Engineers HP15027 $45.00
- Section Properties
- Beams
- Simply Supported Continuous Beams
- Columns
- Mohr Circle Analysis
- Strain Gage Data Reduction
- Soderberg's Equation for Fatigue
- RPN Vector Calculator

Structural Analysis for Civil Engineers HP15021 $75.00
- Section Properties
- Beams
- Simply Supported Continuous Beams
- Settling of Continuous Beams
- Continuous Frame Analysis
- Steel Column Formula
- RPN Vector Calculator
- Reinforced Concrete Beam
- Concrete Columns
- Effective Moment of Inertia for Concrete Sections

Surveying HP15005 $45.00
- Traverse, Inverse and Sideshots
- Compass Rule Adjustment
- Transit Rule Adjustment
- Intersections
- Curve Solutions
- Horizontal Curve Layout
- Vertical Curves and Grades
- Resection
- Predetermined Area
- Volume by Average End Area
- Volume of a Borrow Pit
- Coordinate Transformation

Machine Design HP15020 $45.00
- Circular Cams
- Generation of a Four Bar System
- Progression of a Four Bar System
- Progression of a Slider Crank
- Gear Forces
- Standard External Involute Spur Gears
- Helical Spring Design
- Forced Oscilator with Arbitrary Function
- Coordinate Transformation
- Points on a Circle
- Circle by Three Points
- Unit Conversions

Thermal and Transport Science HP15019 $45.00
- Unit Management System
- Equations of State
- Polytropic Processes for an Ideal Gas
- Isentropic Flow for Ideal Gases
- Conduit Flow
- Energy Equation for Steady Flow
- Heat Exchangers
- Black Body Thermal Radiation

Home Management HP15023 $45.00
- Home Budgeting
- Travel Expense Record
- Stock Portfolio Evaluation
- Remaining Balance and Accumulated Interest
- Your Financial Calculator
- Tax Free Individual Retirement Account (IRA) or Keogh Planning
- The True Cost of an Insurance Policy
- Checking Account Reconciliation
- Home Owner's Equity Analysis

Games HP15022 $45.00
- Super Bagles
- Biorhythms
- Pinball
- Craps
- Space War
- Hangman
- Submarine Hunt

Additional Application Pacs under Development:

Navigation HP15017 (A)
Provides an integrated set of programs to solve the classic navigation problems of dead reckoning and celestial navigation.

Real Estate HP15016 (A)
Programs for the real estate investor including Internal Rate of Return, Depreciation, Compound Interest Solutions, and Income Property Analysis.

Petroleum Fluids Pac HP15039 (A)

HP-41C Solutions Books

HP-41C Solutions Books provide complete step-by-step keystroke listings, to help provide you with answers to your general or specialized programs. (Printed bar codes available later this year.)

Choose from:

Business
Business Statistics/Marketing/Sales HP90094 $12.50
- Forecasting Using Exponential Smoothing
- Seasonal Variation Factors (SEVAR)
- Multiple Linear Regression
- Normal, t and f Distributions
- Grouped Statistics
- Breakeven Analysis
- Moving Average
- Competz Curve
- Experience (learning) Curve for Manufacturing Cost
- Price Elasticity of Demand

Home Construction Estimating HP90096 $12.50
- Concrete Volume
- Linear to Board Feet Conversions and
- Framing Board Feet
- Lumber Estimate
- Shingle Estimate
- Wall and Ceiling Areas Estimate
- Wallpaper Estimate
- Drywall and Insulation Estimate
- Sheathing and Subfloor Estimate
- Painting Estimate
- Wood Floor Estimate

Lending, Savings and Leasing HP90086 $12.50
- Constant Payment to Principal Loan
- APR With Fees/Discount
- Rules of 78's
- Interest Conversions
- Amortization Schedule
- Savings Plan
- Add-on to APR with Odd Days
- Lease with Additional Payments in Advance
- Skipped Payments
- Compounding Periods Different from Payment Periods
- Compound Interest Solutions

Real Estate HP90136 $12.50
- Ellwood Analysis
- Mortgage Pricing
- Analysis of Income Property
- Wrap-Around Mortgage
- Mortgage Yield
- Amount of Equity at Any Time
- IRR
- Investment Analysis for Property and Land
- Residential Analysis (Rent or Buy)
- Variable Analysis of Real Estate Investment
- Shopping Center Rent Projections

Small Business HP90137 $12.50
- Percentages and Proportions with Tabulator
- Account Posting
- Retail Inventory Monitor
- Invoicing
- Inventory Ordering
- Estimating Inventory
- Order Point Calculations
- Hourly Payroll
- Working Capital Needs—Bardahl Formula
- Depreciation Schedules
- Breakeven Analysis

Taxes 1979 HP90222 $12.50
- 1979 Alternative Minimum Tax—Joint Returns
- 1979 Maximum Tax—Joint Returns
- 1979 Single Taxpayers Income Averaging, Tax Table A and Schedule X
- 1979 Married Individuals Income Averaging, Tax Tables B and C, Tax Rate Schedule Y
- 1979 Head of Household Income Averaging, Tax Table D and Tax Rate Schedule Z
- 1979 New Jobs Credit
- 1979 Estates and Trusts Tax Rate Schedule, State Death Taxes Credit Table, Estate and Gift Tax Table
- 1979 Corporate Tax Rate Schedule

Computation
Geometry HP90084 $12.50
- Sine Plate Solutions
- V Notches and Long Radii
- Internal and External Tapers
- Points of Tangency with Circles and Arcs
- Line-Line Intersection
- Points on a Straight Line
- Grid of Points: Calculates All Points
- Grid of Points: Calculates Discrete Points
- Tangent Circle to Two Straight Lines with a Given Radius
- Distance Between Lines in Space

High-Level Math HP90083 $12.50
- Sine, Cosine, Exponential Integrals
- Eigen Values/Vectors of 3rd Order Systems
- Eigen Values for 3rd Order System
- Chebyshev, Legendre, Hermite, and Laguerre Polynomials
- Sixteen-Point Gaussian Quarrature
- Gaussian Elimination
- 4 x 4 Matrix Operations
- Bessel Functions, Error Function
- Characteristic Equation of a 4 x 4 Matrix

Test Statistics HP90082 $12.50
- One Sample Test Statistics for the Mean
- Test Statistics for the Correlation Coefficient
- Differences Among Proportions
- Behrens-Fisher Statistics
- Kruskal-Wallis Statistic
- Mean-Square Successive
- The Run Test for Randomness
- Intraclass Correlation Coefficient
- Fisher's Exact Test for a 2 x 2 Contingency Table
- Bartlett's Chi-Square Statistic
- Mann-Whitney Statistic
- Kendall's Coefficient of Concordance

Engineering
Antennas HP90093 $12.50
- Loaded Vertical Antennas
- Loaded Dipole Antennas
- Gain of a Horizontal Rhombic Antenna at Zero Azimuth
- Azimuth Pattern of Cylindrical Array of Dipoles
- Colinear Antenna Gain and Pattern
- Beam Pattern for Uniform Array
- Radar Antenna Beamwidth and Gain
- Antennas
- Parabolic Antenna Calculations
- RF Path Loss, dB
- Antenna Gain or Power of a Remote Transmitter
- Planar Phased Array Radar Beam Positions
- Shortwave Transmission Path Calculations

Chemical Engineering HP90100 $12.50
- Conservation of Energy
- Hydrocarbon Combustion
- Conduit Flow
- Heat Transfer through Composite Cylinders and Walls
- Von Kármán Analogy for Heat and Mass Transfer
- Equations of State
- Reversible Polytropic Process for an Ideal Gas
- Straight Fin Efficiency
- Fluid Transport Numbers
- Single Stage Equilibrium Flash Calculation
- Weak Acid/Base Titration Curve

Civil Engineering HP90089 $12.50
- Steel Column Formula
- Cantilever Beams
- Compressive Buckling
- Bolt Torque
- Reinforced Concrete Beams
- Vectors
- Stress in Thick-Walled Cylinders
- Properties of Special Sections
- Beams Fixed at Both Ends
- Simply Supported Beams

Control Systems HP90092 $12.50
- Frequency Response of a Transfer Function
- Bode Plot Transfer Function that has Each Pole and Zero Given
- Bode of Third Order Over Fourth Order Transfer Function
- Bode of Third Order Over Third Order Times S**N Transfer Function
- Routh Test for Continuous and Discrete Time System Stability
- Convert Frequency Response—Open Loop, Closed Loop
- Axis to Root Locus Plots I—Real Poles
- Axis to Root Locus Plots II—Complex Poles
- Classical Control Gains
- First Order Regulator
- Second Order Regulator

Electrical Engineering HP90088 $12.50
- RC Timing
- Active Filter Design
- Frequency Response of a Transfer Function
- Transistor Amplifier Performance
- Class A Transistor Amplifier Bias Optimization
- Butterworth Filter Design
- Chebyshev Filter Design
- Bode Plot of Butterworth and Chebyshev Filters
- Transmission Line Calculations
- Transmission Line Impedance

Fluid Dynamics and Hydraulics HP90139 $12.50
- Conduit Flow
- Pipe Slide Rule
- Flow with a Free Surface
- Valve Sizing
- Forces at Bends and Fittings
- Pipe Network Analysis
- Restriction Metering Orifice Calculation
- Energy Equation for Steady Flow
- Compressible Flow in Ducts
- Flood Routing and Hydrographs

Heating, Ventilating, and Air Conditioning HP90140 $12.50
- Overall Heat Transfer Coefficient
- Insulation Break Even Analysis
- Air Flow in Circular Ducts
- Air Duct Conversion
- Equations of State
- Black Body Thermal Radiation
- Psychrometric Properties
- Heat Exchangers
- Decibel Addition and Subtraction
- Temperature Conversions

Mechanical Engineering HP90090 $12.50
- Gear Forces
- Free Vibrations
- Stress on an Element
- Interference Fits
- Equations of State
- Spring Constant
- Soderberg's Equation for Fatigue
- Progression of a Slider Crank
- Linear or Angular Deformation
- Constant Acceleration

Solar Engineering HP90138 $12.50
- Solar-Beam Irradiation
- Sun Altitude, Azimuth, Solar Pond Absorption
- Energy Equivalents—Fuels and Prices
- Solar Shading Angles
- View Factor
- Heat Exchangers
- Sun Almanac
- Black Body Radiation
- Heat Transfer

Other
Calendars HP90145 $12.50
- Calendar Date/Julian Date Conversion
- Day of Year—Day of Week
- Number of Weekdays between Two Dates
- In What Year is a given Date an M-Day
- Number of M-Days between Two Dates and Nth M-Day of Month
- Holidays
- Religious Holidays
- Chinese Years to/from Gregorian Years
- New Moon and Full Moon Day of Month
- Calendar Printout

Cardiac/Pulmonary HP90097 $12.50
- Pulmonary Functions
- Cardiac Outputs
- Body Surface Area
- Cardiac Shunts
- Blood Chem. I
- Blood Chem II
- Lung Diffusion
- Ventilator Calculations
- Valve Area
- Contractility and Stroke Work

Chemistry HP90102 $12.50
- pH of Weak Acid/Base Solutions
- Acid-Base Equilibrium (Diprotic)
- Weak Acid/Base Titration Curve
- Equations of State
- Van Der Waals Gas Law
- Beer's Law and Absorbtivity Calculations
- Activity Coefficients from Potentiometric Data
- Crystallographic to Cartesian Coordinate Transformations
- Kinetics using Lineweaver-Burk or Hofstee Plots
- Mixture Viscosities
- Vapor Pressure, Bubble and Dew Point Calculation
- Single-Stage Equilibrium Calculation

Games HP90099 $12.50
- Hexapawn
- Simon
- Wari
- Planet Lander
- Nim
- Orbital Lander
- Dice
- Scatter
- 3-D Tic Tac Toe
- Flip-Flop
- Hunt the Wumpus

Optometry I (General) HP90143 $12.50
- Aniseikonia
- Crossed Prism Resultant
- Oblique Cylinder Sum
- Low Vision; Determination of Activity Demand from Letter Size and Working Distance
- Contact Lens, Telescope Calculations
- Calculation of Needed Magnification, Add, and Working Distance
- Effective, Equivalent and Neutralizing Power
- Lens Power Needed at New Vertex Distance
- Positional Effective Power
- Pratt, Sheard, Percival Methods of Near R
- Four Accomodative R's and their Average

Optometry II (Contact Lens) HP90144 $12.50
- Back Vertex Power of PMMP Contact Lens
- Effective Power of Spectacle Lens at Corneal Plane
- Residual Cylinder Induced at Tear/Cornea Interfaced by Contact Lens
- Cylinder Induced by Toric Contact Lens
- Contact Lens Power Necessary to Correct Ametropia
- Toric Contact Lens Parameters
- Tabb Contact Lens of 1st Approximation
- May-Grant Contact Lens of 1st Approximation
- Roggenkamp Specification for Prism Ballast Front Toric or Prism Ballast Contact Lens
- Brungardt I
- Brungardt II

Surveying HP90141 $12.50
- Spiral Curve Layout
- Two Instrument Radial Survey
- EDM Slope Reduction
- Stadia Reduction
- Three Wire Leveling
- Azimuth of the Sun
- Taping Reduction
- Triangle Solutions
- Traverse for Auto Adjust Routines
- Auto Adjust for Compass Rule
- Auto Adjust for Crandall's Rule

Physics HP90142 $12.50
- Black Body Thermal Radiation
- Black Hole Characteristics
- Special Relativity Conversions
- Three-Dimensional Special Relativity
- Einstein's Twin Paradox
- Delta-V Orbit Simulator
- Equations of Motion
- Isotope Overlap Corrections
- Semi-Empirical Nuclear Mass Formula
- Clebsch-Gordon Coefficients and 3j Symbols Evaluation
- 32-P Remaining on MM DDYYYY Given

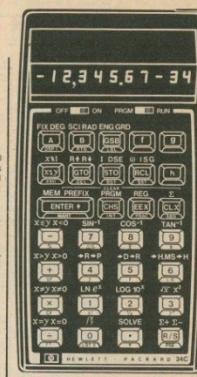
Solutions Book titles and program listings subject to change without notice.)

HP-34C

Advanced Programmable Scientific with Continuous Memory

New computer-strength Solve and Integrate keys plus the most advanced keystroke programming for scientific students and professionals.

Your Cost
$127.50
Item No HP34C
Retail:$150.00



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The totally new HP-34C offers more problem-solving power than ever before available in the Series E line. Two unique new keyboard functions—Solve and Integrate—to find roots and definite integrals of the most complex problems. Dynamic Memory Allocation automatically shifts available memory between storage registers and program lines—depending upon where it's needed. Advanced programming capability provides flexibility and power for a wide range of problems. And Continuous Memory, so you can key data and programs in once, and retain them even when the calculator is turned off.

Solve and Integrate.

The Solve and Integrate operations are the most advanced and powerful ever found on a handheld calculator. Yet both feature an ease of operation that must be seen to be appreciated. Solve finds the real roots of equations, and Integrate finds the definite integrals of any function which can be keyed into program memory. To use either Solve or Integrate begin by simply keying in the function you wish to evaluate. Then ...

... to find a root, enter two guesses and put Solve to work for you. Even if your guesses don't bracket the root, Solve's sophisticated algorithm expands the search automatically. The HP-34C's ability to find a root is one of the most advanced ever created—even compared to full scale computers. Imagine, *this* power in a personal, handheld product!

... to calculate an integral, enter the limits of integration and let the HP-34C take care of the laborious computations. The HP-34C's ability to find an integral was previously found only in large computer systems—it has never been this easy.

Dynamic Memory Allocation.

The HP-34C's memory allocation begins with 70 lines of program memory and 21 data storage registers. When you need more than 70 lines of program memory, the HP-34C *automatically* converts data registers, one at a time, to a maximum of 210 program lines—as you need them. And you don't have to remember current memory allocation. The HP-34C does that for you.

Programming and Editing.

Each fully-merged program instruction, whether one, two, or three keystrokes, requires only one line of program memory. This means the HP-34C's maximum of 210 program lines are comparable to as many as 370 program lines on other calculators. And editing is no problem. The HP-34C's editing keys let you easily review programs and insert or delete instructions as needed.

More Programming Features.

The HP-34C's 12 reusable address labels let you easily create branches and subroutines. With the conditional test set of four x/y comparisons, four x/0 comparisons, four flags, plus the increment/decrement loop counter, you can program the HP-34C to make a wide range of program control decisions. And, with the versatile I-register, you can indirectly address data and program locations.

Continuous Memory.

Continuous Memory provides tremendous value in time-saving and convenience. It also extends the functional capability of your calculator by allowing you to customize it to meet your specific needs.

Applications Book Support.

The solutions you require may already exist in the four applications books available for the HP-34C. Subjects covered include mathematics, statistics, surveying, and student engineering.

Compare the HP-34C's new functions to any other and see if you don't agree—Hewlett-Packard has made another major contribution to technical problem-solving.

The HP-34C Advanced Programmable Scientific with Continuous Memory comes complete with:
- HP-34C Owner's Handbook and Programming Guide
- Solving Problems with your Hewlett-Packard Calculator
- HP-34C Standard Applications Book
- HP-34C Quick Reference Card
- Recharger/AC Adapter
- Rechargeable Battery Pack
- Soft Carrying Case

Physical Specifications:

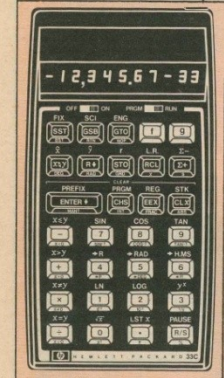
Length:	140 mm (5.6")
Width:	75 mm (3.0")
Height:	30 mm (1.2")

HP-33C

Programmable Scientific with Continuous Memory

Extraordinary problem-solving power plus versatile keystroke programmability to solve repetitive problems quickly and easily.

Your Cost
$102.95
Item No HP33C
Retail:$120.00



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The HP-33 is designed to give you more calculating power, more ease-of-use features, at a lower price than any comparable calculator we've ever offered.

Programming is Easy.

Programming the HP-33 is simple—just switch to PRGM and press a problem-solving series of keystrokes to be remembered by the calculator. Then switch to RUN, key in any known data, and hit the run/stop key. The HP-33 does the rest, executing those keystrokes in a few seconds over and over, as many times as you like. There's no complicated programming language to learn, no elaborate "start-up" procedures to memorize.

49 Lines of Program Memory.

The HP-33 remembers your program in a special memory—49 lines of it. And no matter whether a keyboard operation is one, two or three keystrokes, it occupies only a single line of memory, so you can easily load programs of 100 keystrokes or more.

More Programming Features.

Besides 49 lines of fully-merged program memory, the HP-33 has a variety of specialized functions to make your programming useful, powerful, and even more fun:

Go To. The GTO (go to) command transfers an executing program to a specified line of memory—permitting you to create branches and loops in your programs. And for editing, you can also use GTO from the keyboard to go to any line number.

Powerful Decision-Making Capability. Fundamental to the operation of even the largest computer is its ability to make a decision. The HP-33 has eight conditionals which actually compare two values and make a decision based on the outcome of the comparison.

Three Levels of Subroutines. Using the GSB (go to subroutine) instruction, you can save memory and make your programs much more efficient. After a section of memory has been called up as a subroutine, a RTN (return) instruction then returns execution to the next line after the GSB call.

Fast, Easy Editing. Besides being able to go to any line number with GTO, you can also use SST and BST to single-step or back-step through a program, *without* execution, to any point you want in program memory. Changing a program is easy too—you just key in a new instruction and it automatically replaces the old one.

Pause. The PAUSE function in a program actually lets you see a result or an intermediate answer for a second before resuming execution.

Eight Addressable Storage Registers.

In addition to the 49-line program memory, the four-register stack, and the LAST X register, the HP-33 has 8 addressable storage registers for data. And you can perform storage register arithmetic on these addressable registers too.

Continuous Memory.

The HP-33C has all the functions and capabilities of the HP-33E with the added feature of Continuous Memory which:
Saves Time. You can key a program once, then use it for months.
Extends Functional Capability. Customize your calculator to meet your specific needs.
Reduces Errors. Fewer entries mean fewer errors.
Prolongs Battery Life. The less your calculator is turned on, the longer it lasts between recharges.

Applications Books Support.

The solutions you require may already exist in the four applications books available for the HP-33. Subjects covered include mathematics, statistics, surveying, and student engineering.

The HP-33E and HP-33C Programmable Scientific Calculators come complete with:
- HP-33E/HP-33C Owner's Handbook
- Solving Problems with your Hewlett-Packard Calculator
- HP-33E/HP-33C Standard Applications Book
- HP-33E/HP-33C Quick Reference Card
- Recharger/AC Adapter
- Soft carrying case
- Rechargeable Battery Pack

Physical Specifications:

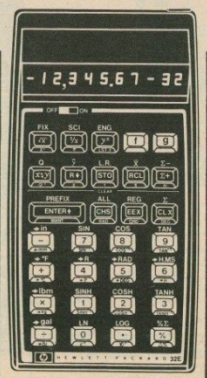
Length:	140 mm (5.6")
Width:	75 mm (3.0")
Height:	30 mm (1.2")

Scientific with Statistics

HP-32E

The HP-32E is the most powerful preprogrammed scientific calculator Hewlett-Packard has ever made.

Your Cost
$59.95
Item No HP32E
Retail:$70.00



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The HP-32E is designed for students and professionals who need sophisticated statistics, as well as a thorough scientific capability, at the touch of a key. The manager, statistician or anyone who must reduce and interpret data will find the HP-32E the ideal calculator.

One or Two Variable Means and Standard Deviations.

At the press of a key you can calculate the means of one or two variables. And the HP-32E can also give you the sample standard deviations of these sets of data.

Linear Regression and Linear Estimate.

The HP-32E calculator easily computes linear regression, calculating the slope and y-intercept of a least-squares line for data. And you can also calculate the correlation coefficient to measure for "goodness of fit". In addition, the HP-32E linear estimate function can actually predict new values along the line.

Normal Distribution.

The HP-32E is equipped with the normal and inverse normal distribution functions—it can compute the area under a standard normal distribution curve to the left of x, and it can also compute x given the area under the curve.

Data Accumulation and Correction.

$\Sigma+$ automatically accumulates Σx, Σy, Σxy, Σx^2, and Σy^2 in designated storage registers. Correcting a data pair is easy, too, with $\Sigma-$.

15 Addressable Storage Registers.

To help you store and recall the data, results, constants, or statistical information, the HP-32E is equipped with 15 addressable storage registers. And you can perform arithmetic on the contents of any of them. The HP-32E also has a LAST X register which automatically preserves the contents of the display present before the last operation.

Trigonometric Functions Including Hyperbolics.

Besides providing sine, cosine, and tangent and their inverses, the HP-32E also computes hyperbolic trigonometric function (sinh, cosh, tanh and their inverses).

Rectangular/Polar Conversions and Vector Arithmetic.

The HP-32E quickly converts rectangular coordinates (x,y) to polar coordinates (r, θ), or vice versa. And vector arithmetic is easy using the rectangular/polar functions with the accumulation functions $\Sigma+$ and $\Sigma-$.

Three Display Modes.

The large numbers in the bright red LED display can be seen in fixed, scientific, or engineering mode (in engineering mode the exponent of 10 is always a multiple of three). You can always see the full 10-digit mantissa, regardless of display mode by pressing the MANT key.

HP-32E Physical Specifications:

Length:	140 mm (5.6")
Width:	75 mm (3.0")
Height:	30 mm (1.2")

The HP-32E come complete
- Owner's Handbook
- Solving Problems with your Hewlett-Packard Calculator
- Recharger/AC Adapter
- Rechargeable battery pack
- Soft carrying case

HEWLETT PACKARD

HP-38C

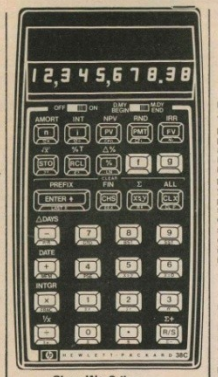
Advanced Financial Programmable with Continuous Memory.

Your Cost

$127.50

Item No HP38C
Retail:$150.00

An unparalleled array of built-in financial functions—plus keystroke programmability to solve repetitive problems quickly and easily.



Shpg Wt:6 lbs

The HP-38 is a powerful financial calculator with the ability to "remember" all the keystrokes in a calculation and to repeat them over and over again at the touch of a key. It provides capabilities that are invaluable to managers, financial analysts, consultants, commercial real estate agents, and advanced business students. The HP-38 offers all the financial capability of the HP-37E and more.

Powerful Discounted Cash Flow Analysis.
The HP-38 calculates net present value (NPV) and internal rate of return (IRR) even with uneven cash flows. NPV and IRR let you weigh a leasing situation against buying, balance the worth of an investment against desired yield, or compare investment alternatives.

Easy, Instant Programming.
The HP-38 is so easy to use you'll be writing programs in minutes—or keying in prewritten programs available from one of the optional applications books. With the calculator in the Program mode, it remembers the series of keystrokes you key in. Then, to run the program, just return to Run mode and key in your data. After that, everytime you run the program, the HP-38 executes the entire sequence of keystrokes in seconds. It's that easy! By programming the HP-38 you can save hours of time wasted in long, tedious calculation. And once that program is written into the calculator, there is no possibility of human error.

Dynamic Memory Allocation.
The HP-38 shares its memory space between program memory and data memory. When the HP-38 is first turned on it contains 8 lines of memory for your program and 20 addressable storage registers. As you write a program longer than 8 lines, memory is automatically converted from data storage to program memory (at a ratio of 1 to 7) until you've reached a maximum of 99 lines, with 7 storage registers still remaining. And remember, any keyboard operation occupies one line of program memory even though it may take one, two, or three keystrokes to perform.

A Handy 2000-Year Calendar.
The built-in HP-38 calendar can easily calculate the actual number of days between two dates on a 360- or 365-day year, day of the week, or a past or future date.

Statistics at the Press of a Key.
The HP-38 offers all of the statistical capability of the HP-37E plus linear estimate of x for a known y and x_w (weighted average).

Continuous Memory.
The HP-38C has all the functions and capabilities of the HP-38E with the added feature of Continuous Memory which:

Saves Time. You can key a program once, then use it for months.

Extends Functional Capability. Customize your calculator to meet your specific needs.

Reduces Errors. Fewer entries mean fewer errors.

Prolongs Battery Life. The less your calculator is turned on, the longer it lasts between recharges.

Physical Specifications:

▪ Length:	140 mm (5.6")
▪ Width:	75 mm (3.0")
▪ Height:	30 mm (1.2")

The HP-38C Advanced Financial Programmable Calculators come complete with:

- HP-38C Owner's Handbook and Programming Guide
- Your HP Financial Calculator: An Introduction to Financial Concepts and Problem-Solving
- Recharger/AC Adapter
- Rechargeable battery pack
- Soft carrying case

Offers solutions for accounting and financial professionals.

The HP-92 Desktop Investor is a personal-sized financial calculator that offers preprogrammed solutions for institutional investors, financial consultants, real estate analysts, loan officers, leasing salesmen, accountants and other professionals examining investment alternatives.

The HP-92 Desktop Investor solves problems involving time and money. Compound Interest. Balloons. Internal rate of return for 30 uneven cash flows. Net present value. Bonds and notes. And three kinds of depreciation.

Invaluable Printer provides a Complete Record.
The whisper-quiet printer on the HP-92 gives you the answers quickly and quietly—with descriptive labels.

Easy-to-use Cash Flow Sign Convention.
The HP-92 Desktop Investor is remarkably easy to use. The sign convention lets you state any problem in a simple, intuitive manner, so you don't have to remember handbook instructions. Problems are entered in terms of cash flows. Cash out-flows are negative and cash in-flows are positive, both when you enter data and when you display results.

Financial Functions that Solve Real-World Problems.
The HP-92 solves complicated "real-world" problems involving compound interest, residuals and salvages, partial payments and balloons, wrap-around mortgages, even internal rates of return based upon uneven cash flows.

Simple, Complete Financial Functions.
For time and money problems, all you need to do is key in any three or four of the values for n (number of compounding periods), i (interest rate), PV (present value), FV (future value) and PMT (payment)—in any order. Then press the key for the unknown value to solve for that value. And if you want to change one of your inputs you can do it with a single keystroke. Ordinary or annuity due problems can also be directly calculated at the flip of a switch. The HP-92's ability to modify the variables in a problem makes it ideal for those "what if?" situations so common in business.

Discounted Cash Flow Analysis for 30 Uneven Cash Flows.
The HP-92 calculates the NPV and IRR for up to 30 uneven cash flows. So you can evaluate whether to lease or buy equipment, balance the worth of an investment with uneven cash flows against desired yield, or compare investment alternatives based on their net present value.

Amortization Schedules at the Press of a Key.
The HP-92 can print a complete amortization schedule showing each period of a fully amortized loan with the amount paid to interest and principal as well as the remaining balance on the loan.

Bond and Note Computations—Quickly and Accurately.
The HP-92 calculates price, yield, or accumulated interest on bills, notes, bonds, certificates, debentures, warrants, certificates of deposit, and other interest-bearing obligations—and the HP-92 meets the standards for accuracy set by the Securities Industry Association.

Useful Percent Functions.
The HP-92 gives you the most useful percent functions: Percent, Percent of Sum, and Percent of Change.

Three Kinds of Depreciation Schedules.
Using the HP-92 Desktop Investor, you can quickly and easily compute depreciation using the straight line, sum-of-the-years' digits, or declining balance method and you can solve for the crossover.

Powerful Statistical Functions.
The HP-92 contains statistical functions for research and analysis. Both linear and non-linear trends can be closely examined, and mathematic models can be generated to make forecasts.

A Built-In Calendar.
The calendar functions of the HP-92 can determine a future or past date given the number of days from a known date. It will also print the day of the week for any date, and it calculates the exact number of days between dates.

Your Cost

$419.95

Item No HP92
Retail:$495.00

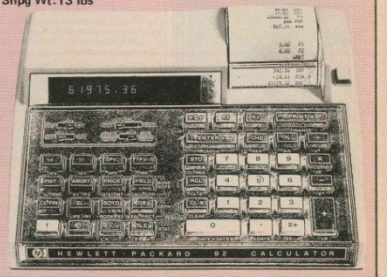
Shpg Wt:13 lbs

Physical Specifications:

▪ Width:	22.9 cm (9.0")
▪ Length:	20.3 cm (8.0")
▪ Height:	6.4 cm (2.5")

The HP-92 Desktop Investor comes complete with:

- HP-92 Owner's Handbook
- HP-92 Applications Book
- Recharger/AC Adapter
- Rechargeable battery pack
- Two rolls of thermal paper
- Soft carrying case



Desktop Investor

HP-92

Business

HP-37E

Your Cost

$63.75

Item No HP37E
Retail:$75.00

The HP-37E is a Hewlett-Packard Series E calculator designed specifically for the residential real estate, retailing, and business communities who need to make fundamental business and financial decisions quickly and accurately.

Simple, Complete Financial Functions.
For time and money problems, all you need to do is key in any three or four of the values for n (number of compounding periods), i (interest rate), PV (present value), FV (future value), and PMT (payment)—in any order. Then press the key for the unknown value to solve for that value. And if you want to change one of your inputs, you can do it with a single keystroke. Ordinary or annuity due problems can also be directly calculated at the flip of a switch. The HP-37E's ability to modify the variables in a problem makes it ideal for those "what if?" situations so common in business.

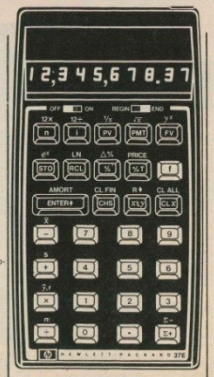
Easy-to-Use Cash Flow Sign Convention.
With the HP-37E you can state any financial problem in a simple, intuitive manner, so you don't have to remember handbook instructions. Problems are entered in terms of cash flows. Cash outflows are negative and cash inflows are positive, both when you enter data and when you display results. With this system you can easily solve complex problems such as the yield of a loan with a balloon or the payment on a lease with a buy back option.

Amortization Schedules.
The HP-37E calculates an amortization schedule (the accumulated interest amount paid toward principal and the remaining balance) for any number of time periods.

The HP-37E Business Calculator comes complete with:

- HP-37E Owner's Handbook
- Your HP Financial Calculator: An Introduction to Financial Concepts and Problem-Solving
- Recharger/AC Adapter
- Rechargeable battery pack
- Soft carrying case

Provides an ideal combination of the financial, retail, and statistical capabilities you need in modern business.



Shpg Wt:6 lbs

Retail-Style Percent Functions.
Whether you're solving for percent, percent change, or percent of total, you'll appreciate the logical, consistent operation of the HP-37E. And the unique PRICE function calculates the selling price if you know the cost and the margin.

Seven Addressable Storage Registers.
Besides the five financial registers and the Hewlett-Packard four-register automatic memory stack, the HP-37E is equipped with seven other memories in which you can store or recall constants, answers, or any number you want to save during your calculations.

Statistics at Your Fingertips.
For research and analysis, the HP-37E is packed with useful statistical functions. The Σ+ key automatically accumulates the values needed to calculate the means (averages) and standard deviations for one or two sets of data.

The HP-37E also provides a linear regression, or trend line function and can compute the correlation coefficient. A factorial function is also available.

Physical Specifications:

▪ Length:	140 mm (5.6")
▪ Width:	75 mm (3.0")
▪ Height:	30 mm (1.2")

HP-67

Handheld Fully Programmable

Proven Performance in Fully Programmable Calculators.

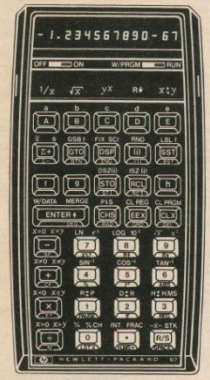
HEWLETT PACKARD

Comes complete with NiCad battery pack, charger and instruction manuals.

Your Cost

$314.95

Retail:$375.00 **Item No HP67**



Shpg Wt:8 lbs

HP-67 Physical Specifications:

- Calculator length: 152.4 mm (6")
- Calculator width: 81 mm (3.2")
- Calculator height: 18 to 34 mm (0.7 to 1.4")
- Calculator weight: 298 g (10.5 oz.)
- Recharger weight: 241 g (8.5 oz.)
- Battery Power Requirement: 3.75 Vdc nickel cadmium rechargeable battery pack.

This proven performance calculator is designed for the most demanding professionals and students who require programming power and versatility to handle multiple and lengthy business and scientific programs. The HP-67 provides the identical power of the HP-97 in the classic handheld size.

Exceptional power easily handles your lengthy, repetitive problems.

The HP-67/97 lets you write programs of up to 224 lines. Every function (one, two or three keystrokes) is merged to take only one line of program memory. And there are 26 data storage registers to provide the memory you need for your problems. You can record the contents of either program memory or the data storage registers on a magnetic card. Later, you can load all or part of them back into the calculator. The "smart" card reader of the HP-67/97 can handle either job. The HP-67 and HP-97 are also completely compatible. Programs recorded on one unit may be loaded and executed on the other.

So easy to use you'll write programs the first day.

Keystroke programming makes programming the HP-67/97 as simple as pressing the keys needed to calculate answers manually. Merged operations further simplify the task (and expand memory power) by letting you see the complete operation right in the display.

Because many programs require editing of some kind, we added useful features enabling you to easily review programs forward or backward, to easily jump to any line in the program, and to easily insert lines or delete them. RPN logic and the four-register automatic memory stack combine for more efficient problem solving. And RPN logic also helps when you program, because you don't use parentheses that waste valuable program memory.

And there are no pending operations that make editing difficult. RPN lets you slide through the most complicated programs the same easy way it lets you slide through complex calculations—with complete confidence.

The HP-67 and HP-97 give you exceptional programming power you won't outgrow.

"Smart" magnetic card reader.

With the magnetic card reader in both the HP-67 and the HP-97 you can load the entire program memory, or selected portions, either manually or under program control.

You can record data from all registers onto a magnetic card. You can also load every data storage register or selected registers.

When recording programs, the HP-67 and HP-97 automatically record the angular mode setting, the display setting and the status of the four flags.

10 User-definable Keys.
There are ten user-definable keys you can use for any special function you may require—such as defining portions of your program for subroutines or branches. In addition, there are ten numerical labels (LBL 0 thru LBL 9).

GTO GSB

You can perform a direct branch or subroutine to a label specified.

A GSB instruction can also be used with a subroutine to a depth of three levels.

Conditional Branching.

x≠y , x=y , x≤y , x>y ,

x≠0 , x=0 , x<0 , x>0

These keys allow your program to make decisions for you by testing the values in the X- and Y-registers or by testing the value in the X-register against zero as indicated.

Flags
You can use the four flags in the calculator for tests in your programs. They can be set, cleared, or tested.

Indirect Addressing.

GTO (i) GSB (i)

You can perform a direct branch or subroutine to a label specified by the current positive number in the I-register using these keys. When the number in the I-register is a negative number these instructions perform a direct branch (GTO (i)) or a subroutine (GSB) (i)) backward the number of lines specified.

STO (i) RCL (i)

You can also use the I-register to specify the address of a storage register for storing and recalling data or for storage register arithmetic.

ISZ (i) DSZ (i)

You can also increment (ISZ (i)) or decrement (DSZ (i)) the contents of the storage register specified by the value in the I-register and then test against zero.

HEWLETT PACKARD

HP-97

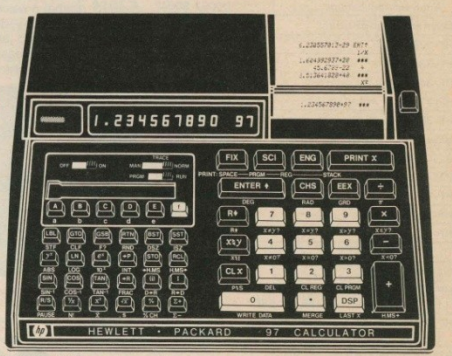
Desktop Fully Programmable Printing

The HP-97 provides battery-operation and thermal printing—in one self-contained unit.

Your Cost

$595.00

Retail:$750.00 **Item No HP97**



Shpg Wt:12 lbs

The HP-97 Fully Programmable Printing Calculator combines exceptional programming power and the great usefulness of a quiet thermal printer. What's more, the HP-97 operates on batteries as well as AC—so you can have a printed record whenever and wherever you need it. In addition, there's an extra-large display for easy readability and a buffered keyboard so data may be keyed in at high speed.

Quiet thermal printer lists your programs on tape for checking and editing.

With the HP-97, you can list a program, (line number, key mnemonic and, optionally, the keycode), contents of the automatic memory stack, or the contents of the data storage registers. And you have three printing modes to choose from.

The printer is a valuable aid in editing programs or long calculations. You don't have to remember what you've done or what remains to be done. You see everything at once clearly, on tape.

Compact in design and light in weight for easy portability.

Total weight of the HP-97 without AC adapter/recharger is only 1.13 kg (2½ pounds). It's so small it will fit into a standard briefcase so you can take it with you, and operate it in airplanes, taxis, anywhere. For security, a built-in metal tab lets you secure it to your desk easily with a cable or bolt.

An unparalleled program of owner support.

You can supplement your own programs with the extensive HP program library. The Standard Application Pac, with 15 programs in various disciplines, comes free with either calculator.

To get a better idea of the capabilities of the HP-67 and HP-97 in relation to your own needs, take the time to review the programs listed in the HP Application Pacs and Solutions Books. In many cases one of our professionally programmed and documented solutions may already exist to solve your problem.

Also available are a one-year subscription to the Users' Library and a free Newsletter to keep you abreast of current information.

HP-97 Physical Specifications:

- Calculator width: 228 mm (9")
- Calculator depth: 203 mm (8")
- Calculator height: 63 mm (2.5")
- Calculator weight: 1.13 kg (2.5 lb.)
- Recharger weight: 268 g (9.5 oz.)

- AC Power Requirement: 90-120V or 220 ± 10%, 50 to 60 Hz
- Battery Power Requirement: 5.0 Vdc nickel cadmium rechargeable battery pack

The HP-67/97 Fully Programmable Calculators come complete with:

- Illustrated Owner's Handbook and Programming Guide.
- Quick Reference Card. (HP-67 only)
- Standard Pac complete with 40 cards, card holder, and manual.
- Battery pack that under normal use provides about 3 hours of continuous operation.
- Recharger/AC adapter that lets you operate the calculator on AC while the battery pack is recharging.
- Soft carrying case.
- Programming pad.
- Users' Library and newsletter subscription card.
- 2 rolls of thermal paper (HP-97 only).

HEWLETT PACKARD

Accessories

Series E/C Application Books		
HP-31E, HP-32E, HP-33E, HP-33C, HP-34C "Solving Problems with your Hewlett-Packard Calculator"	5955-5267	$ 2.00
HP-33E, HP-33C Standard Applications	00033-90067	$ 5.00
Mathematics Applications	00033-90030	$ 5.00
Statistics Applications	00033-90031	$ 5.00
Student Engineering Applications	00033-90032	$ 5.00
Surveying Applications	00033-90033	$ 5.00
HP-34C Standard Applications	00034-90022	$ 8.00
Mathematics Applications	00034-90032	$ 8.00
Statistics Applications	00034-90033	$ 8.00
Surveying Applications	00034-90034	$ 8.00
Student Engineering Applications	00034-90035	$ 8.00
HP-37E, HP-38E, HP-38C "Your HP Financial Calculator"	5955-3016	$ 2.00
Real Estate Applications	00038-90024	$ 5.00
Lending, Savings, & Leasing Applications	00038-90025	$ 5.00
Investment Analysis & Statistics Applications	00038-90026	$ 5.00
Marketing & Forecasting Applications	00038-90049	$ 5.00
Real Estate II (Income Property Analysis) Applications	00038-90051	$ 5.00
HP-38E, HP-38C (only) Personal Finance Applications	00038-90052	$ 5.00
Other Application Books		
HP-41C Standard Applications	00041-90018	$ 10.00
HP-92 Real Estate & Investment Analysis Applications	00092-90042	$ 10.00
Owner's Handbooks		
HP-32E	00032-90001	$ 2.00
HP-33E/33C	00033-90039	$ 10.00
HP-34C	00034-90001	$ 10.00
HP-37E	00037-90001	$ 2.00
HP-38E/38C	00038-90038	$ 10.00
HP-41C	00041-90001	$ 15.00
82104A Card Reader	82104-90001	$ 10.00
82143A Printer	82143-90001	$ 10.00
HP-67	00067-90011	$ 10.00
HP-92	00092-90002	$ 10.00
HP-97	00097-90001	$ 10.00
HEWLETT-PACKARD ACCESSORIES		
Battery Pack		
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E	82109A	$ 6.00
HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80	82001A	$ 10.00
82143A Printer, HP-97, HP-92, HP-91	82033A	$ 18.00
HP-10, HP-19C	82052A	$ 20.00
HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C	82019B	$ 15.00

Reserve Power Pac

Keeps a spare battery pack fully charged. Comes complete with a spare battery pack. A built-in light emitting diode tells you that the battery pack is recharging.

DC Adapter/Recharger

Lets you recharge and operate your calculator in your car, boat or plane. Includes two power cables: one for plugging into an auto-mobile cigarette lighter receptacle and one for fastening directly to a 12-volt DC battery.

Security Cradle/Cable

When leaving your HP calculator unattended in the office or lab you can help guard it against theft or unauthorized borrowing by means of a ruggedly constructed security cradle or cable. The security cradle may be attached to your desk via: four corner screws, center screw attachment allowing 360° rotation, removable six-foot steel cable, or extremely hard to remove adhesive tape. (All are supplied.)

Hard Leather Case

Using your HP calculator out-doors? Help protect it by carrying it in this hard leather field case. It guards your calculator against normal environmental conditions in the field—dust, dirt, rain, snow, bumps and jars. Calculator removal is easy with the snap open flap and contoured front opening.

Reserve Power Pack		
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E	82103A	$ 15.00
HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80	82004A	$ 20.00
82143A Printer, HP-97, HP-92, HP-91	82037A	$ 35.00
HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C	82028B	$ 20.00
Recharger/AC Adapter		
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E (110 Vac)	82087B	$ 10.00
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E (Euro 220 Vac)	82090B	$ 20.00
HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80 (110/220 Vac Switchable)	82002A	$ 20.00
82143A Printer, 82120A, HP-97, HP-92, HP-91, HP-10, HP-19C (110 Vac)	82059B	$ 10.00
82143A Printer, HP-97, HP-92, HP-91, HP-10, HP-19C (Euro 220 Vac)	82066B	$ 25.00
HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C (110 Vac)	82041A	$ 8.00
HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C (110/220 Vac Switchable)	82026A	$ 25.00
DC Recharger/Adapter		
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E	82144A	$ 27.00
HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80	82054A	$ 35.00
HP-21, HP-22, HP-25, HP-25C, HP-27	82055A	$ 35.00
Security Cradle or Cable		
HP-67, HP-65	82015A	$ 30.00
82143A Printer, HP-97, HP-92, HP-91 (Cable)	82044A	$ 10.00
HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C	82029A	$ 30.00
HP-35, HP-45, HP-55, HP-70, HP-80	82007A	$ 30.00
Hard Leather Case		
HP-67, HP-65	82016A	$ 35.00
HP-35, HP-45, HP-55, HP-70, HP-80	82006A	$ 30.00
Soft Case		
HP-32E, HP-33C, HP-34C, HP-37E, HP-38C, HP-31E, HP-33E, HP-38E	82110A	$ 5.00
HP-41C (plus card reader 82104A)	82111A	$ 10.00
HP-67, HP-65 (Black Leather)	82017A	$ 10.00
HP-97, HP-92, HP-91	82035A	$ 10.00
HP-29C	82027A	$ 6.00
HP-10, HP-19C	82064A	$ 8.00
Calculator/Printer Supplies		
Blank Program Cards for 82104A Card Reader, HP-67, HP-97, HP-65 40 Card Pac with Holder	00097-13141	$ 20.00
120 Card Pac with 3 Holders	00097-13143	$ 45.00
1000 Card Pac (No Holders)	00097-13206	$195.00
Thermal Printing Paper for HP-10, HP-19C (6 rolls)	82051A	$ 6.00
Thermal Printing Paper for 82143A Printer, HP-97, HP-92, HP-91 (6 rolls)	82045A	$ 6.00
3 Program Card Holders for 82104A Card Reader, HP-67, HP-97, HP-65	00097-13142	$ 10.00
Program Pad for HP-67, HP-97, HP-33C, HP-34C, HP-38C, HP-29C, HP-19C, HP-65, HP-25, HP-25C, HP-33E, HP-38E	00097-13154	$ 4.00

HP-67/97 Software

Solutions Books

These HP-67/97 books contain between 10 and 15 programs each in diverse areas such as business, math, statistics, medicine, physical science, life science and others. Simply record the programs on your own magnetic cards and you have an application pac in your chosen field. Listed below are samples of just a few of the many programs available in each Solutions Book.

- **Options/Technical Stock Analysis**

HP14009 $10.00

Put & Call Option Fair Values (Black-Scholes)
Call Option Evaluation
Routines for Option Writers
Empirical CBOE Call Pricing
Warranty & Option Hedging
Bull Spread Option Strategy
Butterfly Options
Stock Price 30-Week Moving Average with Data Storage
Exponential Smoothing
Multiple Linear Regression
Curve Fitting, Selecting Best Function

- **Portfolio Management/Bonds & Notes**

HP14010 $10.00

Stock Portfolio Valuation
Portfolio Data Card
Stock Portfolio Beta Coefficient Analysis
True Annual Growth Rate of an Investment Portfolio
Convertible Bond Portfolio Premium Evaluation
Yield on Call Option Sales
Bond Price and Yield
Days Between Dates
Bond Yield to Maturity
Interest at Maturity/Discounted Securities
U.S. Treasury Bill Valuation
Convertible Security Analysis

HP14012 $10.00

- **Real Estate Investments**

Mortgage Yield
Mortgage Pricing No. 1
Mortgage Pricing No. 2
Yearly Amortization Schedule
Amount of Equity at Any Time
Effwood Income Valuation for Income Property Appraisal
Income on Property Analysis
Return on Equity Rental Property
Real Estate Investment Analysis
Internal Rate of Return
Depreciation Schedules

- **Taxes 1979**

HP14004 $10.00

1979 Alternative Minimum Tax—Joint Returns
1979 Maximum Tax—Joint Returns
1979 Single Taxpayers Income Averaging, Tax Table A and Schedule X
1979 Married Individuals Income Averaging, Tax Tables B and C, Tax Rate Schedule Y
1979 Head of Household Income Averaging, Tax Table D and Tax Rate Schedule Z
1979 New Jobs Credit
1979 Estates and Trusts Tax Rate Schedule, State Death Taxes Credit Table, Estate and Gift Tax Table
1979 Corporate Tax Rate Schedule

HP14033 $10.00

- **Home Construction Estimating**

Concrete Volume
Linear to Board Feet Conversion & Costing
Framing Board Feet
Lumber Estimate
Shingle Estimate
Wall & Ceiling Areas Estimate
Wallpaper Estimate
Drywall & Insulation Estimate
Sheathing & Subfloor Estimate
Painting Estimate
Wood Floor Estimate

HP14032 $10.00

- **Marketing/Sales**

Forecasting Using Exponential Smoothing
Financial Trend Analysis
Seasonal Variation Factors (SEVAR)
Price Elasticity of Demand
Experience (Learning) Curve for Manufacturing Cost
Breakeven Analysis
Income Statement (P & L) Analysis
Internal Rate of Return—Groups of Cash Flows
Sales Force Requirements
Cost & Price Computations

HP14031 $10.00

- **Home Management**

Income Tax Planning—I
True Cost of Insurance Policy
Automobile Cost/Tire Cost Comparison
Comparison Shopping
Time & Charges Running Total
Reconcile Checking Account
Savings Account Compounded Daily
Accumulated Interest/Remaining Balance
Stock Portfolio Valuation & Data Card
True Annual Growth Rate of an Investment Portfolio
Diet Planning

HP14039 $10.00

- **Small Business**

Hourly Payroll
Invoicing
Account Posting
Percentages & Proportions with Tabulator
Retail Inventory Monitor
Estimating Inventory
Inventory Ordering
Order Point Calculation
Depreciation Schedules
Yearly Amortization Schedule
Federal Corporate Income Tax
Working Capital Needs—Bardahl Formula

Engineering

- **Antennas**

HP14021 $10.00

Loaded Vertical Antennas
Loaded Dipole Antennas
Gain of a Horizontal Rhombic Antenna at Zero Azimuth
Azimuth Pattern of Cylindrical Array of Antennas
Colinear Antenna Gain & Pattern
Beam Pattern for Uniform Array
Radar Antenna Beamwidth & Gain
Antennas
Parabolic Antenna Calculations
RF Path Loss, dB
Antenna Gain or Power of a Remote Transmitter
Planar Phased Array Radar Beam Positions
Radar Parameter Unit Conversions (Television) Antenna Length & Channel Frequency

- **Thermal & Transport Sciences**

HP14023 $10.00

Psychrometric Properties
Psychrometric Calculations for Water in Air
Equations of State
Isentropic Flow for Ideal Gases
Saturated Steam Properties
Conduit Flow
Parallel & Counter Flow Heat Exchangers
Energy Equation for Steady Flow
Flow with a Free Surface
Pipe Slide-Rule
Force at Bends & Fittings

- **EE (Lab)**

HP14025 $10.00

Wire Table
Ohm's Law
Reactance Chart (Nine Equations)
Coil Calculations
Complex Impedance Calculator—AC Circuit Calculator
Wye-Delta Transformations
RC Timing
Series R-L-C Circuit Analysis Program
Passive High & Lowpass Composite Filter Design
"L" Attenuator (Generator Impedance Greater than Load Impedance)
1% Resistor Value Subroutine
Wheatstone Bridge

HP14035 $10.00

- **Industrial Engineering**

Discounted Cash Flow/Present Value Analysis
Depreciation Schedules
Invoicing & Inventory Control
Production Monitor & Record Learning Curve
x & R Control Chart
Single- & Multi-Server Queues
Two-Way Analysis of Variance with Replications Fixed Effects Model
Multiple Linear Regression for 3 Independent Variables
Simultaneous Equations in Six Unknowns

HP14027 $10.00

- **Beams & Columns**

Compressive Buckling
Eccentrically Loaded Columns
Reinforced Concrete Beams
Concrete Beam Deflection
Torsion-Concentrated Load-Steel Beams (Wide Flange)
Torsion-Uniform Load-Steel Beams (Wide Flange)
A.I.S.C. Steel Column Formula
Concrete Columns Ultimate Strength Design
Column Strength
Beam on Elastic Foundation with Point Load—Any Location

HP90092 $12.50

- **Control Systems**

Frequency Response of a Transfer Function
Bode of Transfer Function That Has Each Pole & Zero Given
Bode of Second-Order Over Third-Order Transfer Function
Bode of Second Order Over Second-Order Times s^n Transfer Function
Pole-Zero to Group Delay
Routh Test for Continuous & Discrete Time System Analysis
Convert Frequency Response—Open Loop, Closed Loop
Aid to Root Locus Plots I—Real Poles
Aid to Root Locus Plots II—Complex Poles
Classical Control Gains
First Order Regulator
Second Order Regulator

Computation

HP14011 $10.00

- **High-Level Math**

Eigenvalues for 3rd Order System
Eigenvalues/Vectors of 3rd Order Systems
Matrix Algebra
Characteristic Equation of a 4 x 4 Matrix
One Card Determinant & Inverse of a 5 x 5 Matrix
Simultaneous Equations in Six Unknowns
Roots of Polynomials
Miscellaneous Special Functions A
Miscellaneous Special Functions B
Incomplete Gamma Function
Incomplete Beta Function
Incomplete Elliptic Integrals

- **Test Statistics**

HP14008 $10.00

One Sample Test Statistics for the Mean
Test Statistics for the Correlation Coefficient
Differences Among Proportions
Behrens-Fisher Statistic
Kruskal-Wallis Statistic
Mean-Square Successive
The Run Test for Randomness
Intraclass Correlation Coefficient
Fisher's Exact Test for a 2 x 2 Contingency Table
Bartlett's Chi-Square Statistic
Mann-Whitney Statistic
Kendall's Coefficient of Concordance

- **Geometry**

HP14007 $10.00

Sine Plate Solutions
V Notches & Long Radii
Internal & External Tapers
Points of Tangency with Circles & Arcs
Line-Line Intersection/Grid Points
Points on a Straight Line
Grid of Points: Calculates All Points
Grid of Points: Calculates Discrete Points
Tangent Circle to Two Straight Lines with a Given Radius
Distance Between Lines in Space

Other

- **Chemistry**

HP14006 $10.00

pH of Weak Acid/Base Solutions
Acid-Base Equilibrium (Diprotic)
Weak Acid/Base Titration Curve
Equations of State
Van Der Waals Gas Law
Beer's Law & Absorptivity Calculations
Activity Coefficients from Potentiometric Data
Crystallographic to Cartesian Coordinate Transformations
Kinetics Using Lineweaver-Burk or Hofstee Plots
Mixture Viscosities
Vapor Pressure, Bubble & Dew Point Calculation
Single-Stage Equilibrium Calculation

- **Energy Conservation**

HP14029 $10.00

Air Cooling System Design
Black Body Thermal Radiation
Economic Insulation Thickness
Heat Transfer through Composite Cylinders & Walls
Steady State Conduction Heat Transfer, Heat Load & Logarithmic Mean Temperature Difference
Sun Altitude, Azimuth, Solar Pond Absorption
Total Daily Amount of Solar Radiation
Transient Temperature Distribution in a Semi-Infinite Solid
Temperature or Concentration Profile for a Semi-Infinite Solid with Convection Boundary Condition
Conservation of Energy

- **Games**

HP14013 $10.00

Risk
Blackjack with a Permanent Bank
Bell-Fruit (Mills Standard)
Turn the Die
Word Encoder
Word Game Subroutine
Hangman Word Game
Pro Football Simulation
Electronic Contract Bridge Score Pad
Duplicate Bridge Score with Running Totals

Application Pacs

With HP-67/97 Application Pacs, the solutions you require may already exist. Application Pacs contain 15 to 26 preprinted, pre-recorded program cards, a program card holder and a manual of complete documentation. You save significant time because no researching, programming, debugging or documenting is needed.

EE Pac HP13131 $35.00

- Network Transfer Functions
- Reactive L-Network Impedance Matching
- Class A Transistor Amplifier Bias Optimization
- Transistor Amplifier Performance
- Transistor Configuration Conversion
- Parameter Conversion: $S \leftrightarrow Y, Z, G, H$
- Fourier Series
- Active Filter Design
- Butterworth or Chebyshev Filter Design
- Bode Plot of Butterworth and Chebyshev Filters
- Resistive Attenuator Design
- Smith Chart Conversions
- Transmission Line Impedance
- Microstrip Transmission Line Calculations
- Transmission Line Calculations
- Unilateral Design: Figure of Merit, Maximum Unilateral Gain Circles
- Bilateral Design: Stability Factor, Maximum Gain, Optimum Matching
- Bilateral Design: Gain and Stability Circles, Load and Source Mapping

Business Decisions HP13144 $35.00

- Internal Rate of Return
- Internal Rate of Return—Groups of Cash Flows
- Discounted Cash Flow Analysis—Net Present Value
- Direct Reduction Loans—Sinking Fund
- Accumulated Interest/Remaining Balance
- Wrap-Around Mortgage
- Constant Payment to Principal Loan
- Add-on Rate Installment Loan/Rule of 78's
- Savings Plan-Leases
- Advance Payments
- Savings—Compounding Periods Different from Payment Periods
- Simple Interest/Interest Conversions
- Depreciation Schedules
- Days Between Dates
- Bond Price and Yield
- Interest at Maturity/Discounted Securities
- Linear Regression—Exponential Curve Fit
- Multiple Linear Regression
- Break-Even Analysis
- Invoicing
- Payroll
- Inventory

Clinical Lab & Nuclear Medicine Pac HP13165 $35.00

Clinical Chemistry

- Beer's Law
- Protein Electrophoresis
- LDH Isoenzymes
- Body Surface Area
- Urea Clearance
- Creatinine Clearance
- Amniotic Fluid Assay
- Blood Acid-Base Status
- Oxygen Saturation and Content
- Red Cell Indices

Nuclear Medicine

- Total Blood Volume
- Schilling Test
- Thyroid Uptake
- Radioactive Decay Corrections

Radioimmunoassay

- Radioimmunoassay

Statistics

- Basic Statistics
- Chi-Square Evaluation and Distribution
- t Statistics
- f Distribution

CE Pac HP13195 $35.00

- Vector Statics
- Section Properties (2 Cards)
- Properties of Special Sections
- Stress on an Element
- Bending or Torsional Stress
- Linear or Angular Deformation
- Cantilever Beams
- Cantilever Beams—Trapezoidal Load
- Simply Supported Beams
- Simply Supported Beams—Trapezoidal Loads
- Beams Fixed at Both Ends
- Beams Fixed at Both Ends—Trapezoidal Loads
- Propped Cantilever Beams
- Propped Cantilever Beams—Trapezoidal Load
- Six-Column Continuous Beams
- Steel Column Formula
- Reinforced Concrete Beams
- Bolt Torque

Navigation HP13205 $35.00

- Estimated Time of Arrival
- Great Circle and Rhumb Line Navigation
- Dead Reckoning
- Velocity Triangle and Course to Steer
- Star Sight Planner (2 cards)
- Almanac Interpolater
- Sun Line of Position
- Star Line of Position (7 cards)
- Bearing Line of Position
- Two-Angle Line of Position
- Fix from Two Lines of Position
- Radar Plotting Closest Point of Approach
- Beating to Windward
- Distance by Horizon Angle

Surveying Pac HP13175 $35.00

- Traverse, Inverse and Sideshots
- Traverse Adjustment
- Intersections
- Curve Solutions
- Horizontal Curve Layout
- Spiral Curve Layout
- Vertical Curves and Grades Resection
- Two Instrument Radial Survey
- EDM Slope Reduction
- Stadia Reduction/3-Wire Leveling
- Taping Reduction/Field Angle Check
- Azimuth of the Sun
- Predetermined Area
- Earthwork
- Coordinate Transformation
- State Plane Coordinates—Lambert
- State Plane Coordinates—Transverse Mercator
- State Plane Coordinates—Alaska Zones 2–9

Stat Pac HP13111 $35.00

General Statistics

- Basic Statistics for Two Variables
- Factorial, Permutation, and Combination
- Moments, Skewness, and Kurtosis (For Grouped or Ungrouped Data)
- Random Number Generator
- Histogram

Analysis of Variance

- Analysis of Variance (One Way)
- Analysis of Variance (Two Way)
- Analysis of Covariance (One Way)

Distribution Functions

- Normal and Inverse Normal Distribution
- Chi-Square Distribution
- t Distribution
- F Distribution

Curve Fitting

- Multiple Linear Regression
- Polynomial Approximation

Test Statistics

- t Statistics
- Chi-Square Evaluation
- Contingency Table
- Spearman's Rank Correlation Coefficient

Quality Control

- x and R Control Chart
- Operating Characteristic Curves

Queueing Theory

- Single- and Multi-Server Queues

Math Pac HP13121 $35.00

- Factors and Primes
- GDC, LCM, Decimal to Fraction
- Base Conversions
- Optimal Scale for a Graph: Plotting
- Complex Operations
- Polynomial Solutions
- 4 x 4 Matrix Operations (2 cards)
- Solution to $f(s) = 0$ on an Interval
- Numerical Integration
- Gaussian Quadrature
- Differential Equations
- Interpolations
- Bode Plot Transformations
- Intersections
- Circles
- Spherical Triangles
- Gamma Function
- Bessel Functions, Error Function
- Hyperbolics

ME Pac HP13155 $35.00

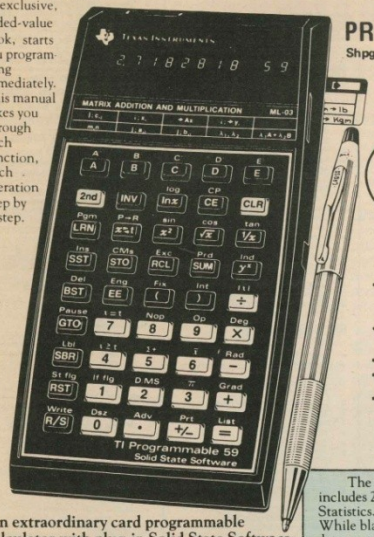
- Vector Statics
- Section Properties (2 cards)
- Stress on an Element
- Soderberg's Equation for Fatigue
- Cantilever Beams
- Simply Supported Beams
- Beams Fixed at Both Ends
- Propped Cantilever Beams
- Helical Spring Design
- Four Bar Function Generator (2 cards)
- Progression of Four Bar System
- Progression of Slider Crank
- Circular Cams
- Linear Cams
- Gear Forces
- Standard External Involute Spur Gears
- Belt Length
- Free Vibrations
- Vibration Forced by $F_0 COS\omega t$
- Equations of State
- Isentropic Flow for Ideal Gases
- Conduit Flow
- Heat Exchangers (2 cards)

Games Pac HP13185 $35.00

- Game of 21
- Dice
- Slot Machine
- Submarine Hunt
- Artillery
- Space War
- Super Bagels
- Nim
- Queen Board
- Hexapawn
- Tic-Tac-Toe
- Wari
- Racetrack
- Teaser
- Golf
- The Dealer
- Bowl Scorekeeper
- Biorhythms
- Timer

* Note—67/97 programs will also work in the HP-41C. Lengthy programs may require additional memory modules.

Personal Programming, an exclusive, added-value book, starts you programming immediately. This manual takes you through each function, each operation step by step.



TI 59 PROGRAMMABLE

Shpg Wt:7 lbs

Item No. TI59

$229.95

Texas Instruments

Program steps and memory registers are resources that can be allocated to meet your needs. Short problems with many numbers could require nearly all 100 memories—like budgets or statistical analyses. While long problems with lots of operations and few variables could require almost all 960 program steps—like stock options or orbital mechanics. The TI-59 gives you the flexibility to select a broad variety of combinations.

PROGRAM STEPS		960
	880	10
	800	20
	720	30
	640	40
	560	50
	480*	60*
	400	70
	320	80
	240	90
100	MEMORIES	

*Calculator is in this configuration when turned on. May be changed from the keyboard or in a program.

Features of the powerful TI Programmable 59:

- 4 types of display testing with an independent test or "t" register: $X \geq t$ $X < t$ $X = t$ $X \neq t$
- Up to 10 additional test registers directly available for: Looping. Increment. Decrement.
- Up to 10 user flags available: Set. Reset. Test.
- 72 useful labels.
- Extremely flexible addressing of:

Program Steps:	Data Memories:
1. Absolute	1. Direct
2. Indirect	2. Indirect
3. Label	

- Complete program editing: Insert. Delete. Single step. Backstep. No-Operation.
- 10 user defined label keys.
- AOS™ algebraic operating system allows easy, straightforward problem solving. Key in your problem left-to-right, just as you would read or write it in standard mathematical terms.
- Up to 9 sets of parentheses (allowing up to 8 pending operations in your machine) provide extended problem solving capability.
- Over 175 functions and operations in scientific, engineering and statistical fields.
- Up to 6 levels of subroutines available.

An extraordinary card programmable calculator with plug-in Solid State Software and magnetic card storage. For professionals in business, science, engineering.

An ac adapter/charger is included **RETAIL: $300.00**

The Master Library module simply plugs in. It includes 25 different programs in key areas: Math. Statistics. Finance. While blank magnetic cards let you write and record custom programs which may be run individually or integrated with programs in the library modules.

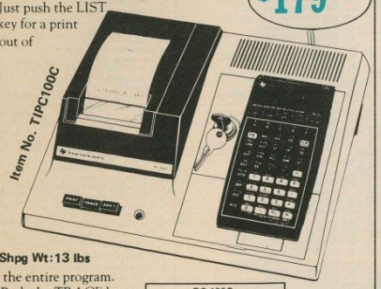
Optional Solid State Software™ libraries are available in Applied Statistics, Real Estate & Investment, Aviation, Marine Navigation, Surveying, Leisure, Business Decisions, Securities Analysis, Math/Utilities, Electrical Engineering, Farming, and RPN Simulator.

Accessories for the TI Programmable 59 include Solid State Software™ libraries, PC-100C printer/plotter, and Specialty Pakettes.

PC-100C Texas Instruments

The PC-100C printer/plotter turns your TI Programmable 58C or 59 into a quiet, high-speed printing calculator that prints, lists, and traces your program. Just push the LIST key for a print out of the entire program. Push the TRACE key and every calculation that's performed in your program is printed—the full number and the operation.

$179.95



Shpg Wt:13 lbs

PC-100C Operating Characteristics		
	Calculator TI-58C	Model TI-59
Print	•	•
List	•	•
Trace	•	•
Alpha	•	•
Plot	•	•
Prompt	•	•

Paper for PC100C TP30250 3-roll pack $10.50

The PC-100C also provides alpha and plotting capabilities. Print capability consists of 64 characters with a maximum line length of 20 characters. Print headings and data labels. Plot curves and histograms. You can even use the alpha capability to build prompting messages directly into your program.

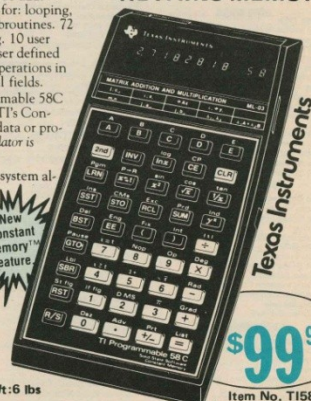
The PC-100C performs quietly and reliably using a non-impact, thermal printer developed by Texas Instruments—the leader in thermal printing technology.

The TI Programmable 58C is truly computer-like. Up to 480 program steps or 60 memories to work with individually or integrate with solid-state library modules to deliver up to 5000 additional steps. 4 types of display testing with independent test or "t" register. 10 additional test registers directly available for: looping, increment, decrement. 6 levels of subroutines. 72 labels. 2 modes of indirect addressing. 10 user flags available: Set, Reset, Test. 10 user defined label keys. Over 170 functions and operations in scientific, engineering, and statistical fields. You can also program the TI programmable 58C right from the keyboard. And it has TI's Constant Memory™ feature that retains data or program information *even when the calculator is turned off*.

TI's AOS™ algebraic operating system allows easy, straightforward problem solving. Key in the problem left-to-right, just as you would read or write it in standard mathematical terms. Also, 9 levels of parentheses, allowing 8 pending operations, to provide extended problem solving capability. *Personal Programming*, an exclusive added-value book, allows you to use your TI Programmable 58C with confidence—straight off. Unlocks the power of programming in language most everyone can understand. The TI Programmable 58C gives hard copy when used with the PC-100C thermal printer/plotter. An ac adapter/charger is included for ac operation or rapid battery recharge.

New Constant Memory™ feature.

TI-58 C PROGRAMMABLE RETAINS MEMORY



$99.95

Item No. TI58C

Shpg Wt:6 lbs

Optional Solid State Software™ libraries are available in Applied Statistics, Real Estate & Investment, Aviation, Marine Navigation, Surveying, Leisure, Business Decisions, Securities Analysis, Math/Utilities, Electrical Engineering, Farming, and RPN Simulator.

Accessories for the TI Programmable 58C include Solid State Software™ libraries, PC-100C printer/plotter, and Specialty Pakettes.

TI PROGRAMMER

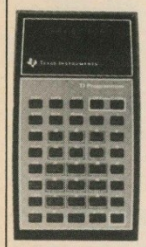
HEXADECIMAL/OCTAL CALCULATOR CONVERTER

Compatible with Computers

Your Cost **$54.95**

Item No TIPR

Shpg Wt:4 lbs



Hexadecimal. Octal. Decimal. Texas Instruments new TI Programmer lets the computer professional and hobbyist perform fast, accurate conversions and calculations in any of these number bases.

Enter a number in base 8, 10 or 16. TI Programmer can quickly convert to either of the other bases. Rapidly handle arithmetic computations in all three bases giving you more time for important programming or troubleshooting tasks.

Ideal for use with any size computer. TI Programmer uses integer "two's complement" arithmetic in hexadecimal and octal bases.

Three key memory lets you store, recall, or sum to memory contents. Decimal base features signed floating point arithmetic for convenience in day-to-day math.

The TI Programmer does away with conversion tables and tedious longhand methods, and can multiply the effectiveness of anyone involved with computer programming, program debugging or troubleshooting.

Texas Instruments

Advanced Slide Rule with STATISTICS

TI-55

Your Cost **$36.95**

Item No TI55

Shpg Wt:4 lbs

Science. Engineering. Statistics. Social Science. Whatever your field, Texas Instruments TI-55 calculator can help you improve your professional performance by giving you fast, accurate solutions to your problems.

Advanced TI-55 capabilities include simple programming, plus a unique blend of hardware and software support. The versatile TI-55 is packed with the features and functions you need to handle almost any mathematical operation, from logarithms and trigonometry to more advanced statistical problems.

Powerful statistical capability... mean, variance, standard deviation, linear regression. Simple keyboard programmability with 32 steps lets you perform repetitive calculations at the touch of a key. Ten user-accessible memories are available to increase the flexibility of calculations.

Easy-to-understand 140-page *Calculator Decision-Making Sourcebook* shows you how to use the advanced functions of the TI-55 in making better decisions, whatever your field or profession.

Slimline LCD Slide Rule with Statistics & Constant Memory

TI-50

Your Cost **$36.95**

Item No TI50

Shpg Wt:3 lbs

Powerful scientific calculator with over 60 functions, including statistics and the most commonly used logarithmic and trigonometric operations. Plus TI's Constant Memory™ feature. All in a slimline styling with up to 1,000 hours of normal operation on a single set of batteries.

The *Slimline TI-50* has two fully arithmetic memories. The Constant Memory feature allows them to retain the data which has been stored, *whether the unit is on or off*. This enables retention of continuously used constants, values, and statistical data.

Full statistical functions include mean, and both standard deviations and variances for sample and population data.

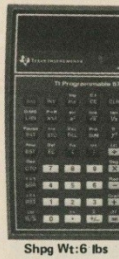
Other features include TI's unique AOS™ algebraic operating system and APD™ automatic power down. The AOS entry system, with 15 sets of parentheses and up to 4 pending operations, lets you enter calculations as they're usually written, left to right. APD automatic power down is a special "battery-saver" feature which prevents accidental power drain by automatically turning the calculator off after about 7 to 15 minutes of non-use.

Advanced Slide Rule with PROGRAMMABILITY

Your Cost **$54.95**

Item No TI57

TI-57



Shpg Wt:6 lbs

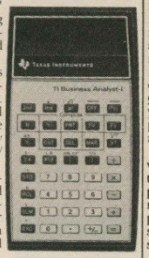
The TI Programmble 57 is a powerful slide rule calculator with statistics and simple programmability that provides exceptional power at an economical price.

Eight multi-use memories provide addressable memory locations for you to store and recall data. Powerful program memory stores 50 fully merged steps (up to 150 keystrokes). Once your program is built, it can be executed repeatedly by supplying new sets of variables. Computer-like programming functions help solve repetitive problems quickly and accurately.

The TI Programmable 57 is also a powerful super slide rule calculator which provides many advanced mathematical capabilities to simplify problem solving.

The TI Programmable 57 comes with an illustrated, easy-to-follow learning guide — *Making Tracks into Programming*. With over 200 pages, this book takes you into the power and fun of programming right away, with step-by-step instructions and examples. AC adapter/charger and carrying case included.

Economical Business Calculator



Your Cost **$23.95**

Item No TIBA1

Shpg Wt:3 lbs

Marketing. Insurance. Real estate. Investments. Personal finance. Buying, selling, or trading. Whatever your interest, the TI Business Analyst-I™ provides the calculating power to quickly and accurately analyze business and personal financial situations.

Preprogrammed functions make the power of the Business Analyst-I easy to use. Three keys deal with cost/sell margins. Five keys handle compound interest, annuity calculations, and other future/present value problems.

Statistical capabilities include linear regression and trend line analysis for forecasting sales, earnings and other data. Other advanced math functions include: Percent and percent change. Reciprocals, squares, roots, powers, and natural logarithms. Also 15 sets of parentheses and a versatile 4-function memory.

Keys to Money Management, an easy-to-understand reference book, is included. It contains sample applications and step-by-step instructions for solving common problems.

Operates on a disposable 9-volt battery (not included). An optional accessory kit is available to convert the Business Analyst-I to a rechargeable calculator.

BUSINESS ANALYST I

Texas Instruments

Imagine doing complex calculations to explore alternatives in lease/buy options, loans, amortizations, real estate mortgages, or sales and earnings forecasts in a matter of minutes. Working together as a system, the Texas Instruments Slimline Business Analyst-II Calculator, *Executive Calculator Guidebook* and *Quick Facts for Business* give you all this computational capability — and much more — at the touch of a few keys.

This 8-digit LCD calculator, with Constant Memory™ feature and APD™ automatic power down, solves a wide range of time and money problems — even complex statistical computations — instantly.

Executive Calculator Guidebook is the key to getting the most out of your BA-II calculator. It illustrates more than 200 business and personal financial situations and will show you how to use your calculator's built-in formulas to examine investments, compare money markets, explore lease/buy options, loans, savings accounts and depreciation methods, project overhead, analyze effects on income and predict trends.

Finally, *Quick Facts for Business* travels next to your BA-II to give you a quick reference for instant financial problem-solving. Its easy "how to" approach shows you the basic keystrokes you need to make fast, on-the-spot business and personal financial decisions.

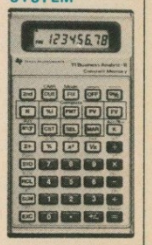
BUSINESS ANAYLIST II

Your Cost **$44.95**

Item No TIBA2

Shpg Wt:3 lbs

EXECUTIVE CALCULATING SYSTEM



The M B A

Advanced Business/Financial Calculator with Statistics & Programmability

A powerful business/financial calculator with preprogrammed functions and programmability, The MBA™ lets you analyze situations quickly.

Preprogrammed financial functions let you compute net present value and internal rate of return for variable cash flows. Payment, present value, future value, number of periods or periodic interest rate for ordinary annuities and annuities due are also computed. Also bond yields and much more.

The MBA will give you statistical functions — mean, variance, standard deviation — at the touch of a key. Plus built-in linear regression with correlation coefficient. Twelve memories for added versatility.

The MBA features simple programmability. The "Learn" key lets The MBA remember a sequence of up to 32 keystrokes, which may include preprogrammed functions.

Calculator Analysis for Business and Finance is included with The MBA. This 228-page, easy-to-follow book shows you how to analyze financial situations faster, use statistical methods quickly and easily, and get the most out of your MBA calculator.

Your Cost
$54.95
Item No TIMBA

Shpg Wt:4 lbs

INVESTMENT ANALYST Slimline

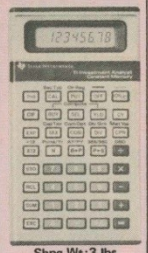
A new dimension in easy-to-use financial analysis of investments

The Slimline Investment Analyst™ is designed for the investment professional and individuals who wish to make their own investment analyses. This handsome calculator can analyze any investment in which you can determine the amount of money spent on the investment, the amount returned by the investment, and the length of time the investment was owned.

Rapid and accurate evaluations of stocks, bonds, options, warrants, commodity futures, gold, silver, stamps, paintings, real estate and numerous other types of investments are yours with the Investment Analyst. It solves investment problems in terms of the three basic variables — buying price, selling price, and yield (current, annual, yield to maturity, or total period of ownership).

Features include full 4-function calculating capability, compound interest factor, and days between dates. Easy-to-read liquid crystal display. Four-function memory with Constant Memory™ feature saves data stored in the calculator even when it's turned off. APD™ automatic power down for long battery life. Leather-like vinyl wallet case included.

Your Cost
$59.95
Item No TIIA



Shpg Wt:3 lbs

Texas Instruments *Business Card*™

Credit Card Size LCD FINANCIAL CALCULATOR

The ultra-slim TI Business Card provides the calculator power you need to handle and analyze financial and business situations quickly and efficiently. So lightweight and compact that you can take it anywhere, the Business Card features positive action keys designed to feel right to your fingers.

Conveniently arranged financial keys help you compute time and money problems. Profit margin calculations are rapidly handled using the Business Card's cost, sell, or margin keys.

On-the-spot answers to a wide range of math problems become easier with the Business Card. Add-on and discount percentages and percent changes. Reciprocals. Squares and square roots. And more.

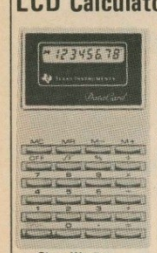
TI's Constant Memory™ feature lets the Business Card retain stored data, *even when the calculator is turned off*. Full arithmetic memory for added versatility. APD™ automatic power down feature. Up to 1000 hours of normal operation from two miniature batteries. Vinyl wallet case.

Your Cost
$44.95
Item No TIBUSC

Shpg Wt:2 lbs

DataCard™

Credit Card Size - 6 Functions LCD Calculator with memory



Shpg Wt:3 lbs

Not much larger than a credit card, the ultra-slim TI DataCard™ adds new style and convenience to everyday problem solving. Truly a pocket-portable calculator, it's less than three-sixteenths of an inch thick and, even with its protective wallet, weighs less than two ounces! Yet it packs the power of many calculators far greater in size. And you'll like DataCard's positive action keys, designed to feel right to your fingers.

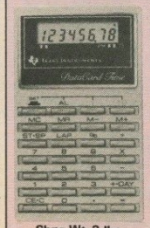
A versatile percent key makes it easy to figure add-ons, discounts, and interest calculations. Square root computations are available at the touch of a key. Additional features include a four-key memory and an easy-to-read eight-digit liquid crystal display (LCD) that shows decimal point, negative sign, memory indicator, and battery condition. TI's APD™ automatic power down feature protects against accidental power drain by turning off the calculator after two to six minutes of non-use. Combined with the DataCard sophisticated electronic design it provides the convenience and economy of long battery life.

Your Cost
$23.95
Item No TIDC

DataCard TIME CALCULATOR CLOCK STOPWATCH

Credit-card Size

Your Cost
$36.95
Item No TIDCT



Shpg Wt:3 lbs

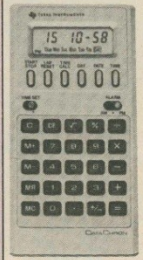
DataCard Time™ is the world's first digital calculator/clock/stopwatch that uses alphanumeric visual prompting to lead you through its simple setting instructions in a flash. It gives the cues in readable, abbreviated English. You key in your choices for setting time and date, two alarms and alternate time zone. It's done in seconds — without having to memorize sequences or refer to an owner's manual.

DataCard Time shows continuous time, date and day of the week in its bright 8-digit liquid crystal display. Or switch modes, and its compact, electronic calculator gives you quick answers to the most common calculating problems. A versatile four-function Constant Memory™ retains data even when the unit goes back into the time mode.

DataCard Time also features a convenient stopwatch function that displays hours, minutes, seconds and tenths of seconds. Measure up to 10 hours in total elapsed time. Also includes a lap timer. And DataCard Time's sleek, credit-card size styling makes it truly pocket portable.

Texas Instruments DATACHRON™

Electronic Calculator-Alarm Clock & Stop Watch



Shpg Wt:2 lbs

A calculator. A clock/alarm. A stopwatch. All three come in the handy, pocket-size DataChron™. Handheld versatility at its best:

A calculator. Perform the most-needed arithmetic functions. DataChron has four-key memory and can perform add-ons, discounts, interest calculations, square roots and percentages, automatically.

A clock/alarm. Display shows time, day, date, AM/PM. Alarm reminds you of meetings, of important phone calls, or of any of those many other tasks that always seem to slip your mind. DataChron's 24-hour alarm feature can be set to any hour and minute.

A stopwatch. Time speeches, phone calls, athletic events, lab experiments, or even cooking times. Elapsed times can be measured and displayed with one-tenth of a second accuracy. Stopwatch mode displays hours, minutes, seconds and tenths of seconds up to 9-59-59.9.

You'll get over 1-year normal operation on a single set of batteries. Comes in brown vinyl wallet folder with insert pockets for business cards.

Your Cost
$38.95
Item No TIDTC

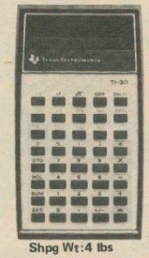
TI-30 SP Student Math Kit

Developed with the cooperation of nationally known educators, this economical calculator-based math system is designed specifically to meet the needs of today's students. As skills grow through high school to college and into career, the TI-30 Student Math Kit will continue to meet all but the more advanced math challenges.

Basic to the Student Math Kit is, of course, the powerful 48-function TI-30 slide rule calculator that performs arithmetic, percentages, squares and square roots, logarithms and trigonometric functions. The key to mastering the TI-30's full potential is the "Great International Math on Keys Book." Developed in cooperation with the staff of the University of Denver Mathematics Laboratory, its 224 pages offer useful, interesting information about calculator mathematics and the role it plays in everyday life. Chapter topics include algebra, trigonometry, business and finance, home management, conversions, helpful tables and charts, probability and statistics, physics and chemistry and fun puzzles and games.

Also included is a owner's manual, and carrying case. An optional AC adapter is available.

Your Cost
$19.95
Item No TI30SP



Shpg Wt:4 lbs

No battery or charger included; Optional RK2 Kit including Ni-Cad batt. & charger: $10.95

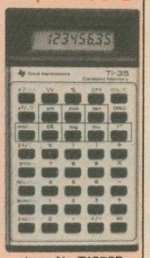
TI-35 SP Student Math Kit Problem-Solving Kit with Slimline TI-35 scientific calculator

The TI-35 Student Math Kit is specifically designed for students on the go. The powerful 54-function Slimline TI-35 calculator is truly pocket portable and performs the most-needed slide rule functions as well as special functions such as π, factorial and constant for rapid calculations of even complex problems. Its bright, liquid crystal display with scientific notation lets you work with even the smallest or largest numbers with ease. Built-in statistical capabilities include data entry, mean and standard deviation for both sample and population data. Versatile 4-key Constant Memory™ feature lets you store, recall, sum data to memory and exchange memory with display. And it retains your data even when the calculator is off.

Included with the Slimline TI-35 is the key to getting the most out of your calculator, the "Student Calculator Math Book." This expanded edition of TI's popular "Great International Math on Keys Book" offers even more information about calculator mathematics and is filled with how-to problems, puzzles and games.

Also included with the TI-35 and book are a detailed owner's manual and vinyl carrying case.

Your Cost
$23.95

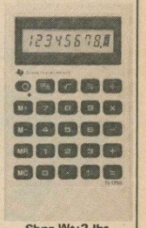


Item No TI35SP
Shpg Wt:4 lbs

Texas Instruments

Your Cost
$22.95
Item No TI1750

TI-1750 Attractive 6 Function LCD Calculator with Memory



Shpg Wt:2 lbs

So light. So small. So economical. You'll get up to 2,000 hours of operating time per set of batteries (7 years typical operating time).

You can slip the TI-1750 into your pocket or purse. Ideal for meetings or tests, on business trips or shopping trips.

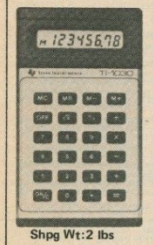
Pencil thin and smaller than a wallet, the TI-1750 weighs only 2½ ounces. Yet, it performs today's most needed math functions: Add-ons, discounts, square roots, percentages. And it has a four-key memory.

Large easy-to-read liquid crystal display shows 8 digits plus overflow, minus and memory signs.

Comes in brown vinyl wallet folder, complete with note pad and insert pockets for business cards.

SLIMLINE TI-1030 6 Function LCD with Memory

Your Cost
$16.95
Item No TI1030



Shpg Wt:2 lbs

Economical and power-saving pocket-portable calculator. Elegantly styled with a sleek slimline look, the Slimline TI-1030™ is as thin as a pencil and easily fits in your pocket. Makes a good-looking addition to your personal or business accessories in its brown vinyl wallet folder.

Includes TI's APD™ automatic power down feature to prevent accidental battery drain by automatically turning the calculator off after approximately four minutes of non-use. This feature, combined with advanced circuitry design, provides extended battery life.

Large, easy-to-read liquid crystal display (LCD) shows 8 digits plus overflow, decimal point, negative sign, and memory indication.

Automatic constant eliminates reentering the same number for repetitive calculations. Plus four-key memory, percent key, and square root key.

Texas Instruments

TI-1010 *SLIMLINE* 6 Function LCD Calculator

The economical TI-1010 is a calculator almost everyone in the family can use ... around the house, in class, at the office — even outdoors. Sleekly styled, it's lightweight and thin as a pencil. In its durable vinyl case the TI-1010 fits easily into a pocket, purse, or brief case to go where you go.

Handling everyday math is a snap with the versatile TI-1010. You get fast, accurate answers to addition, subtraction, multiplication and division problems. Even square roots. A percent key automatically calculates percentages. Automatic constant feature eliminates the need to reenter a number in repetitive calculations.

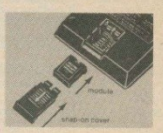
The TI-1010 has a large eight-digit liquid crystal display (LCD) that's easy to read — even in direct sunlight. TI's APD™ automatic power down feature helps prevent accidental battery drain by turning off the calculator after approximately four minutes of non-use.

Your Cost
$13.95
Item No TI1010

Shpg Wt:2 lbs

SOLID STATE SOFTWARE Libraries

State-of-the-art advance in micromemory technology



Solid State Software libraries reduce the contents of up to 25 magnetic cards to one tiny plug-in module. Gives you more programming versatility and power. Converts TI-58C and TI-59 into business or professional as well as scientific machines.

Drop in a tough, durable Solid State Software module in seconds and quickly access a program with a few keystrokes. The Master Library, provided with the TI Programmable 58C and TI Programmable 59 calculators provides an instant "tool kit" for math, statistics, finance, business, and other problems.

Use the preprogrammed library modules by themselves or use the 5,000-step module as a base and call subroutines from your magnetic card or keyed-in program. Use your magnetic card or keyed-in program as a base and call subroutines from your 5,000-step library module. Perform chaining by calling subroutines both ways. And much more.

Solid State Software library modules

Available at $38.00 each:

- Applied Statistics
- Real Estate/Investment
- Aviation
- Marine Navigation
- Surveying
- Math/Utility
- Electrical Engineering
- RPN Simulator
- Securities Analysis
- Business Decisions
- Leisure Activities

Available at $43.00: Pool Water Analysis

Available at $52.00: Farming

Each Solid State Software library consists of one plug-in module, a comprehensive library manual, a handy pocket-size quick reference guide and a convenient wallet case.

Texas Instruments introduces a new family of quality commercial calculators for your business. And each uses plain paper tape.

TI-5215 PRINTER DUAL MEMORY CAPABILITY

Your Cost
$175.00
Item No TI5215

Shpg Wt:13 lbs

Features

Printer — Heavy duty, 12-digit impact printer with automatic punctuation and two-column audit trail.
Keyboard — 28 touch keys including large total, plus, minus, zero and clear entry keys all conveniently arranged on a full-size, "Touch Operator" keyboard.
Ten-Level Keyboard Buffering — Permits rapid entry of numbers and operations — there's no need to wait for the calculator to print one entry before you make another.
Full Memory — Four-function "live" memory allows you to add-to, subtract-from, subtotal or total memory without affecting calculations in progress.
Independent Add Register — Permits multiplications and division without affecting add/subtract operations in progress.
Grand Total Register — Accumulates totals from the independent add register and memory total operation.
Grand Total Switch — Permits the grand total register to be turned off when not in use to prevent accidental overflow of the register.
Decimal Selector Switch — Selects floating decimal point operation, add mode (automatic two-place decimal position for convenient calculations of dollars and cents figures) or fixed (0-6 place) decimal position.
Automatic Rounding Switch — Three-position switch automatically rounds results up, down, or up from 5 and down from 4.
Item Count — Automatically prints the number of addition and subtraction entries with totals and subtotals, and the number of accumulations entered into the grand total register with grand totals.
Percent Key — Provides automatic percentage calculations such as add-ons and discounts.
Non-add Key for Dating and Numbering — Simplifies labeling a tape with a date, stock number or the like without affecting totals.
Power on Light — Indicates when the calculator is on.
Plus: Two-key rollover, double zero key, automatic constant, and two-color printing.

Shpg Wt:12 lbs

Specifications

Impact Printer — Prints up to 12 digits plus commas, decimal point and two-column audit trail. Additions and positive numbers are printed in black; subtractions and negative numbers are printed in red.
Printer Speed — 2.8 lines per second.
Replacement Paper — Uses standard, 5.8m (2.25in) wide roll paper.
Replacement Ribbon — Black/red inked ribbon.
Calculator Functions — Four basic function, repeat addition/subtraction, multiplication/division, with constant feature, percentage calculations, independent add register, independent memory, add mode, automatic rounding, product/quotient calculation with addition/subtraction, subtotal and grand total.
Electronics — MOS/LSI integrated circuits and other solid-state components.
Operating Temperature — 0° to 40° C (32° to 104° F).
Power Source — Operates from an 117 VAC/60Hz source.
Power Consumption — 20 Watts.
Size — 23.6 x 31.1 x 8.0 cm (9.29 x 12.24 x 3.15 in).

Limited Warranty

The TI-5215 calculator is covered by 90 day limited warranty against defects in materials and workmanship. The complete text of this limited warranty is set forth in the owner's manual accompanying the calculator.

TI-5213 PRINTER

Your Cost
$160.00
Item No TI5213

Features

Printer — Heavy duty, 12-digit impact printer with automatic punctuation and two-column audit trail.
Keyboard — 24 touch keys including large total, plus, minus, zero and clear entry keys all conveniently arranged on a full-size "Touch Operator" keyboard.
Ten-Level Keyboard Buffering — Permits rapid entry of numbers and operations — there's no need to wait for the calculator to print one entry before you make another.
Independent Add Register — Permits multiplications and division without affecting add/subtract operations in progress.
Grand Total Register — Accumulates totals from the independent add register.
Grand Total Switch — Permits the grand total register to be turned off when not in use to prevent accidental overflow of this register.
Decimal Selector Switch — Selects floating decimal point operation, add mode (automatic two-place decimal position for convenient calculations of dollars and cents figures) or fixed (0-6 place) decimal position.
Automatic Rounding Switch — Three-position switch automatically rounds results up, down, or up from 5 and down from 4.
Item Count — Automatically prints the number of addition and subtraction entries with totals and subtotals, made and the number of accumulations entered into the grand total register with grand totals.
Percent Key — Provides automatic percentage calculations such as add-ons and discounts.
Non-add Key for Dating and Numbering — Simplifies labeling a tape with a date, stock number or the like without affecting totals.
Power on Light — Indicates when the calculator is on.
Plus: Two-key rollover, double zero key, automatic constant and two-color printing.

Shpg Wt:12 lbs

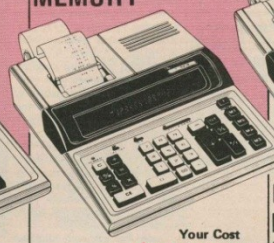
Specifications

Impact Printer — Prints up to 12 digits plus commas, decimal point and two-column audit trail. Additions and positive numbers are printed in black; subtractions and negative numbers are printed in red.
Printer Speed — 2.8 lines per second.
Replacement Paper — Uses standard, 5.8cm (2.25in) wide roll paper.
Replacement Ribbon — Black/red inked ribbon.
Calculator Functions — Four basic function, repeat addition/subtraction, continuous multiplication/division with constant feature, percentage calculations, independent add register, independent memory, add mode, automatic rounding, product/quotient calculation with addition/subtraction, subtotal and grand total.
Electronics — MOS/LSI integrated circuits and other solid-state components.
Operating Temperature — 0° to 40° C (32° to 104° F).
Power Source — Operates from an 117 VAC/60 Hz source.
Power Consumption — 20 Watts.
Size — 23.6 x 31.1 x 8.0 cm (9.29 x 12.24 x 3.15 in).

Limited Warranty

The TI-5213 calculator is covered by a 90 day limited warranty against defects in materials and workmanship. The complete text of this limited warranty is set forth in the owner's manual accompanying the calculator.

TI-5219 PRINTER/DISPLAY MEMORY



Your Cost
$205.00
Item No TI5219

Features

Dual Capability — Versatile calculating functions with heavy-duty, 12-digit impact printer and large, bright 12-digit display. Provides automatic punctuation for both printer and display.
Keyboard — 28 touch keys including large total, plus, minus, zero and clear entry keys all conveniently arranged on a full-size, "Touch Operator" keyboard.
Ten-Level Keyboard Buffering — Permits rapid entry of numbers and operations — there's no need to wait for the calculator to print one entry before you make another.
Full Memory — Four-function "live" memory allows you to add-to, subtract-from, subtotal or total memory without affecting calculations in progress.
Independent Add Register — Permits multiplication and division without affecting add/subtract operations in progress.
Grand Total Register — Accumulates totals from the independent add register and memory total operation.
Grand Total Switch — Permits the grand total register to be turned off when not in use to prevent accidental overflow of this register.
Decimal Selector Switch — Selects floating decimal point operation, add mode (automatic two-place decimal position for convenient calculations of dollars and cents figures) or fixed (0-6 place) decimal position.
Automatic Rounding Switch — Three-position switch automatically rounds results up, down, or up from 5 and down from 4.
Item Count — Automatically prints the number of addition and subtraction entries with totals and subtotals, and the number of accumulations entered into the grand total register with grand totals.
Percent Key — Provides automatic percentage calculations such as add-ons and discounts.
Non-add Key for Dating and Numbering — Simplifies labeling a tape with a date, stock number or the like without affecting totals.
Plus: Two-key rollover, double zero key, automatic constant, selectable printing and two-color printing.

Specifications

Shpg Wt:13 lbs

Display — Large, bright, easy-to-read 12-digit vacuum fluorescent (VF) display with comma and decimal point punctuation and status indicators for memory, error or overflows.
Impact Printer — Prints up to 12 digits plus commas, decimal point and two-column audit trail. Additions and positive numbers are printed in black; subtractions and negative numbers are printed in red. Keyboard control turns printer on and off for printing only selected entries and results.
Printer Speed — 2.8 lines per second.
Replacement Paper — Uses standard, 5.8cm (2.25in) wide roll paper.
Replacement Ribbon — Black/red inked ribbon.
Calculator Functions — Four basic functions, repeat addition/subtraction, multiplication/division with constant feature, percentage calculations, independent add register, independent memory, add mode, automatic rounding, product/quotient calculation with addition/subtraction, subtotal and grand total.
Electronics — MOS/LSI integrated circuits and other solid-state components.
Operating Temperature — 0° to 40°C (32° to 104°F).
Power Source — Operates from any 117 VAC/60 Hz source.
Power Consumption — 29 Watts.
Size — 23.6 x 31.1 x 8.0 cm (9.29 x 12.24 x 3.15 in)

Limited Warranty

The TI-5219 calculator is covered by a 90 day limited warranty against defects in materials and workmanship. The complete text of this limited warranty is set forth in the owner's manual accompanying the calculator.

TI-5217 PRINTER DISPLAY MEMORY

Your Cost
$190.00
Item No TI5217

TEXAS INSTRUMENTS COMMERCIAL CALCULATOR SPECIALIST

Features

Dual Capability — Versatile calculating functions with heavy-duty, 12-digit impact printer and large, bright, 12-digit display. Provides automatic punctuation for both printer and display.
Keyboard — 24 touch keys including large total, plus, minus, zero and clear entry keys all conveniently arranged on a full-size "Touch Operator" keyboard.
Ten-Level Keyboard Buffering — Permits rapid entry of numbers and operations — there's no need to wait for the calculator to print one entry before you make another.
Independent Add Register — Permits multiplication and division without affecting add/subtract operations in progress.
Grand Total Register — Accumulates totals from the independent add register.
Grand Total Switch — Permits the grand total register to be turned off when not in use to prevent accidental overflow of this register.
Decimal Selector Switch — Selects floating decimal point operation, add mode (automatic two-place decimal position for convenient calculations of dollars and cents figures) or fixed (0-6 place) decimal position.
Automatic Rounding Switch — Three-position switch automatically rounds results up, down, or up from 5 and down from 4.
Item Count — Automatically prints the number of addition and subtraction entries with totals and subtotals, and the number of accumulations entered into the grand total register with grand totals.
Percent Key — Provides automatic percentage calculations such as add-ons and discounts.
Non-add Key for Dating and Numbering — Simplifies labeling a tape with a date, stock number or the like without affecting totals.
Plus: Two-key rollover, double zero key, automatic constant, selectable printing and two-color printing.

Specifications

Shpg Wt:13 lbs

Display — Large, bright, easy-to-read 12-digit vacuum fluorescent (VF) display with comma and decimal point punctuation and status indicator for error or overflow.
Impact Printer — Prints up to 12 digits plus commas, decimal point and two-column audit trail. Additions and positive numbers are printed in black; subtractions and negative numbers are printed in red. Keyboard control turns printer on and off for printing only selected entries and results.
Printer Speed — 2.8 lines per second.
Replacement Paper — Uses standard, 5.8cm (2.25in) wide roll paper.
Replacement Ribbon — Black/red inked ribbon.
Calculator Functions — Four basic functions, repeat addition/subtraction, multiplication/division with constant feature, percentage calculations, independent add register, add mode, automatic rounding, product/quotient calculation with addition/subtraction, subtotal and grand total.
Electronics — MOS/LSI integrated circuits and other solid-state components.
Operating Temperature — 0° to 40° C (32° to 104° F).
Power Source — Operates from any 117 VAC/60Hz source.
Power Consumption — 20 Watts.
Size — 23.6 x 31.1 x 8.0 cm (9.29 x 12.24 x 3.15 in)

Limited Warranty

The TI-5217 calculator is covered by a 90 day limited warranty against defects in materials and workmanship. The complete text of this limited warranty is set forth in the owner's manual accompanying the calculator.

CALL US FOR BEST PRICES CALL US FOR BEST PRICES CALL US FOR BEST PRICES

Item No. TI5230 3 Roll Pack Thermal Paper No. TP35350 $8.95

Texas Instruments

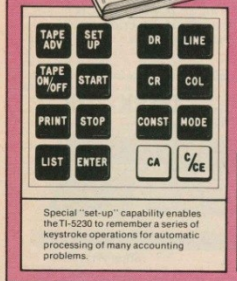
NEW LINE CALCULATORS—THE FAMOUS MODEL TI-5230 Thermal Printer

Quiet, reliable thermal printer provides alphanumeric printing. Functions include 4-function "live" memory, independent add register, grand total register & much more.

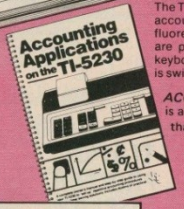
The TI-5230 from Texas Instruments. It makes accounting practically automatic.

The TI-5230 is a remarkable, new printer/display calculator with automatic accounting features. Unique "set-up" capability allows the TI-5230 to remember a series of keystrokes, eliminating the drudgery of repetitive operations.

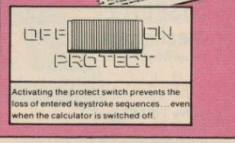
The TI-5230 can handle jobs such as proration, crossfooting, reconciliation, debit/credit account balancing, and invoice extensions quickly and easily. A bright, 12-digit vacuum fluorescent display provides easy readability. High-speed alphanumeric printed tape records are provided by an advanced thermal printer for quiet reliability and economy. Activating the keyboard Protect Switch prevents loss of "set-up" keystroke sequences when the calculator is switched off.



Special "set-up" capability enables the TI-5230 to remember a series of keystroke operations for automatic processing of many accounting problems.



ACCOUNTING APPLICATIONS on the TI-5230 is a step by step guide that includes dozens of practical applications.



Activating the protect switch prevents the loss of entered keystroke sequences...even when the calculator is switched off.

CALL US FOR THE BEST PRICE!

Thermal printing. The quiet, reliable, ribbonless, better way.

Shpg Wt:13 lbs

The TI-5230 has a thermal printer—an advanced, non-impact printer developed by TI. It's whisper-quiet because it has no noisy hammers like mechanical printers. Yet it instantly produces sharp, clear character images. And thermal printers are extremely reliable, since the only moving parts are those that advance the paper.

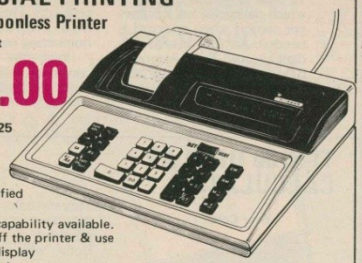
A thermal printer eliminates the cost of ribbons as well as the mess. And, because there are no moving parts—except for the tape advance—both maintenance and power requirements are extremely low.

TI-5225 PRINTER/DISPLAY COMMERCIAL PRINTING

Thermal—Ribbonless Printer

Your Cost
$220.00
Item No. TI5225

Shpg Wt:13 lbs



Built-in alphanumeric printing & left-justified non-add symbols.
Clearest audit trail capability available.
Flexibility-switch off the printer & use only the large VF display when no tape needed.
Easily handles multiplication of a constant, auto. % & credit bal.
4-function live memory lets you sum-to, subtract from, recall or clear memory w/o affecting calc. in progress.
Indep. add register permits mult. & divis. w/o affecting add/sub. operations in progress.
Combine indep. add register & grand total w/four-function memory gives you 3 storage registers.
Grand total register, item count key, reverse key, backspace key, and more.
Two key rollover w/input buffering.
Electr. printer: prints up to 12 digits plus audit trail on wide thermal paper.
Overflow indication. Sign on display ind. memory. "ERROR" indicates calculation overflow.
Operates from any 115VAC/60Hz source thru detachable cord.
Decimal selector switch allows results to be displayed or printed in floating decimal or fixed 0-9 places.
Comes with 3-roll pack TP-27225 thermal paper, power cord, owner's manual, dust cover.

TI-5200 COMMERCIAL ELECTRONIC 12 DIGIT DISPLAY CALCULATOR

Item No. TI5200
$70.00
Your Cost

SHPG WT 8 lbs

12-digit vacuum fluorescent display.
4-Function capability plus memory.
Two-key rollover-press a second key & enter a second digit even before you release the first.
Live electronic memory lets you enter & recall numbers. Add to/subtract from memory plus complete mult. & div. directly into memory.
Repeat add/subtract. Last entered number can be added or subtracted as many times as necessary.
Floating or fixed decimal. Decimal selector switch permits 0-9 positions fixed, floating or add-mode.
Add-mode permits entering series of decimal numbers, such as dollars & cents w/o using decimal key.
Mode switch for constant calculations. Choice of doing normal calculations in the C mode or multiply & divide by a constant in the K mode w/o re-entering numbers.
Large, long-travel keys permit solving complex problems w/o looking at keyboard.
Keyboard consists of 11 function keys, a decimal key & ten digit keys.
Reverse key inverts fractions or recalls last entry during add & sub.
Automatic percentage.
Display shows all numbers, negative sign for true value indication, memory content indication, memory & calculation overflow indications, and display punctuation-including commas for thousands.

TI-5040 DESK-TOP PRINTER/DISPLAY Thermal

Texas Instruments

Shpg Wt: 10 lbs

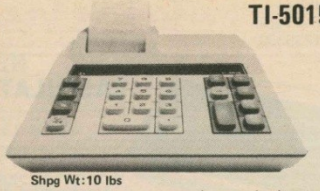
Your Cost **$99.95**

Item No TI5040

The TI-5040 combines the convenience of an easy-to-read fluorescent display for quick calculations with a printed tape for your records. For quick calculations use the large bright green 10-digit display, with commas and a floating decimal point. Or when a tape is needed, the whisper-quiet thermal printer delivers a crisp, clean copy of your calculations.

Special features to help solve business calculations or auditing problems include: A four-function memory. An independent add register to simplify extensions, cross-footing and invoices. An automatic constant. A percent key. The combination of memory and independent add register results in a powerful "dual memory" capablity.

TI-5015 DESK-TOP PRINTER Ribbonless



Shpg Wt: 10 lbs

Your Cost **$68.95**

Item No TI5015

An attractive, economical desk-top calculator that prints a clear, legible tape. Quickly. Whisper-quiet.

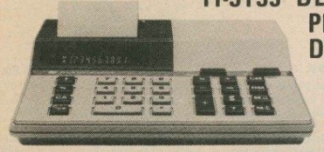
Using standard business machine sequence, this lightweight compact calculator adds, subtracts, multiplies and divides. Handles multiplication and division of a constant, automatic percentages and credit balance.

The independent add register allows you to perform multiplication and division without affecting previous add/subtract entries. Non-add key prints reference numbers without affecting calculations. Grand total register automatically accumulates totals from the add register.

Unlike old-fashioned mechanical printers, the TI-5015's ribbonless printer is as reliable as it is quiet. Print quality is consistently high.

Shpg Wt: 10 lbs

TI-5135 DESK-TOP PRINTER DISPLAY Thermal



Your Cost **$79.95**

Item No TI5135

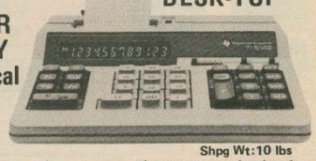
The TI-5135 was designed for business executives so it has all the features an executive needs. That means having both a display for fast calculations and a tape produced by a thermal printer.

Use the display alone or display plus printer when the job demands it. The 10-digit, display is easy to read with commas and decimal point. The thermal printer is quiet enough to use when you're on the phone, and it eliminates ribbons and ink.

You'll make quick work of most problems with features like: Four-function memory and independent add register for "dual-memory" capability. Add register also makes the extensions, cross footing, and invoices easier. Automatic constant. And percent key.

The TI-5135 will earn its place on an executive's desk — at work or at home.

TI-5142 PRINTER DISPLAY Mechanical DESK-TOP



Your Cost **$124.95**

Item No TI5142

Shpg Wt: 10 lbs

When you're getting down to business, the TI-5142 is the calculator to get. It has all the convenience features that help you get the right answers.

Switch on the dependable 12-digit mechanical printer, which delivers a fast 2.5 lines per second when a record is needed. An easy-to-read, 12-digit vacuum fluorescent display with commas and decimal point lets you save on paper if you wish.

There are enough other features to solve most business and accounting problems like: Long-travel keyboard. Full-function memory. Mark up/down. Decimal point selection. Percent and Δ percent keys. Plus/minus change. And a special dating/numbering key.

Heavy-duty keys, case and construction help the TI-5142 stand up to the tough day-to-day use business demands.

TI-5025 HAND HELD PRINTER DISPLAY Thermal

Your Cost **$79.95**

Item No TI5025

Shpg Wt: 8 lbs

The TI-5025 is a whisper-quiet, ribbonless thermal printing calculator with 8-digit vacuum fluorescent (VF) display and printer on/off capacity to save paper. Convenient handheld size with carrying case so you can have it with you in the car, on a trip, or anywhere.

Basic calculator functions, percent key, and four-key "live" memory combine to assist you in planning budgets; balancing checkbooks or ledgers; figuring taxes, percentages, add-ons and discounts; and many other personal tasks which require calculating numbers.

The TI-5025 has a convenient entry system which allows problems to be entered in the same order they are written — just like other TI handheld calculators.

The selective printing key allows you to save paper by using the display only.

Comes complete with paper, AC adapter/charger, and carrying case.

TI-5100 DISPLAY CALCULATOR

Your Cost **$46.95**

Item No TI5100

Shpg Wt: 8 lbs

This versatile, quality calculator can increase calculating efficiency in the office or at home with silent, effortless operation. Adds, subtracts, multiplies, divides and features a memory to store and recall numbers. Display shows M when a number is in memory. Overflow is indicated by an arrow at the left of the display. Calculate percentages, taxes and discounts. An item count key for simplified inventory and calculation of averages. Decimal selector switch positions decimal at full floating or presets at two places. Large 10-digit green vacuum fluorescent display (with comma) for easy readability.

Texas Instruments Learning Center™

SPEAK & READ

Preschool through grade 3

Speak & Read Modules: $22.95 each

Shpg Wt: 5 lbs

Item No. TISPR

Speak & Read* is an amazing new learning aid that duplicates the human voice to help build beginning reading skills. It introduces more than 250 of the most basic English words. Its challenging activities are based on a combination of the most important educational method of reading development. Using fast-paced "see it/hear it" techniques, children are encouraged to recognize words and alphabet letters on sight as they hear their correct pronunciation. Bright, fun activities, such as "Picture Read," develop vocabulary skills and word meaning, while "Read It" helps develop reading comprehension and the ability to draw conclusions from clues within the context. And, through its unique ability to talk, Speak & Read helps the child learn to build words with sounds and syllables through word families (cat/hat/sat).

Most of Speak & Read's activities and games are offered in three levels of difficulty, so that your child will continue to be challenged as his or her skills grow. And children are motivated to improve their skills with positive verbal reinforcement after each activity.

Speak & Read comes with a colorful 64-page activity-filled book, earphone and sturdy carrying case. Additional plug-in modules will soon be available to expand Speak & Read's capabilities even further. Each module will contain an additional word list to improve reading skills progressively through third-grade level.

Your Cost **$66.95**

Item No. TISPSP

Shpg Wt: 5 lbs

Grades 1 through 8

SPEAK & SPELL

The pioneer talking electronic learning aid, Speak & Spell* has captured the imagination of parents and teachers everywhere. And it has proven its remarkable teaching power in both homes and classrooms — thousands of times over.

A confidence builder, Speak & Spell helps motivate the student to become a better speller. Created with the guidance of leading educators, it involves the student in three ways — hearing the word, spelling the word, and seeing the word — thus helping to impress a word on the child's mind in a lasting manner.

Students progress at their own pace through a primary vocabulary of over 200 words in four levels of difficulty. These are common words which don't follow normal spelling rules, such as anxious, ocean and obey. In addition to spelling and pronunciation drills, Speak & Spell adds an extra dimension of fun with challenging word games that reinforce the learning. Speak & Spell even keeps score — so your child is motivated to try harder, spell better.

Speak & Spell comes with a colorful 32-page activity book and an earphone to make learning a private experience. In addition, a whole family of optional plug-in Solid State Speech modules expand Speak & Spell's capabilities to fit your child's growing needs

Speak & Spell Modules:

Basic Builders (2-3)
Vowel Power (2-4)
Super Stumpers (4-6)
Mighty Verbs (4-6)
Noun Endings(4-6)*
Vowel Endings (6-8)*
Magnificent Modifiers (6-8)*
Super Stumpers (7-8)
Homonym Heroes (7-8)

***New Titles**

$18.50 each

Electronic Learning Aid

The remarkable talking learning aids with electronic voice and brain

Your Cost **$73.95**

SPEAK & MATH

Grades 1 through 6

Item No. TISM

Shpg Wt: 5 lbs

The brand-new Speak & Math* makes learning basic math skills fun with exciting sight-and-sound activities — including the remarkable new dimension of the human voice. Students combine the senses of sight, hearing and touch to help learn more than 100,000 mathematical problems in addition, subtraction, multiplication and division. Speak & Math even introduces beginning concepts in geometry and algebra.

Its fast-paced problem-solving drills, like the mind-teasing "Number Stumper," help stimulate logical thinking and following directions while they improve retention of the basic "tables." "Word Problems" helps strengthen recognition of common spoken expressions used in math concepts, such as decimals, remainders and basic geometry. "Greater than/less than" helps the child compare totals rather than merely calculate them. And "Write It" helps sharpen the ability to write in numeral form spoken numbers such as nine and four hundred thirty-seven thousandths (that is, 9.437). Speak & Math always praises correct answers and encourages the child to try again when answers are wrong.

A colorful 32-page activity book adds to the fun and helps reinforce classroom instruction. And Speak & Math's large memory capacity provides a generous sampling of math problems taught in grades 1 through 6 in three levels of challenge, so that your child can continue to progress at his or her own pace.

Texas Instruments

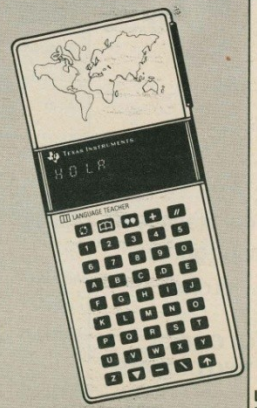
LANGUAGE TEACHER

Shpg Wt: 6 lbs

Retail: $100.00

Your Cost **$84.95**

Item No. TILTR



Language Teacher

Want to take a more in-depth look at how a language works? TI's Language Teacher can help. Ideal for student language study, review, brush-up and quick vocabulary reference. In contrast to the Language Translator's spoken traveler's vocabulary, TI's new Language Teacher offers a basic vocabulary to help the language student gain a quick grasp of the language. Its bright, green display shows you verbs and verb conjugations, idiomatic expressions, phrase and sentence structures and, of course, spelling. Additional plug-in modules let you build vocabularies in several useful categories, such as food, travel, shopping, etc. A helpful pronunciation guide offers easy explanations and additional hints. The Language Teacher is a unique new aid for beginning language students, as well as former language students who want to review and brush up their skills or require a quick vocabulary reference.

Both the Language Translator and the Language Teacher come with their own vinyl carry cases — so you can take them anywhere — and an AC adapter.

Language Teacher Modules:
English, Spanish, French, German Retail: $25.00, Y/C $22.95

LANGUAGE TUTOR

Your Cost **$159.95**

Item No. TILT

Shpg Wt: 6 lbs

Retail: $180.00

Includes 1 Module of your choice

Texas Instruments Language Tutor is the first handheld electronic language aid that can both show you foreign words and tell you how to pronounce them. Through Solid State Speech™ technology, the Language Tutor can actually speak words, phrases and sentences to aid you in proper pronunciation. Also, it shows you proper spellings in an easy-to-read display.

If you're totally unfamiliar with a foreign language, use the Language Tutor to get acquainted with it. It will guide you through the most common words, phrases, expressions and questions.

If you're already familiar with a language, you can use the Language Tutor to help you brush-up on spelling, sharpen your speaking skills and improve your ability to pronounce and recognize the spoken language.

Simple number codes listed in the Word/Phrase Study Guide let you translate easily by selecting a phrase from the listing in the guide, entering the number in the Language Tutor, and hearing the phrase spoken. And you can see the phrase displayed.

Whether you want to study Spanish, French or German, plug-in modules for the Language Tutor are available in each of these languages. A Word/Phrase Study Guide accompanies each module and makes finding the words you need even easier.

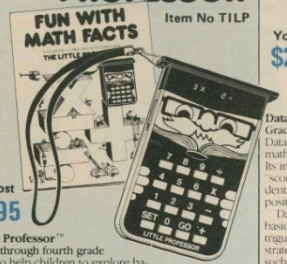
Language Modules:
English, Spanish, French, German
Retail: $50.00, Y/C $39.95

Texas Instruments Learning Center

Electronic Learning Aid

THE LITTLE PROFESSOR™

Item No TILP



Your Cost **$13.95**

The Little Professor™
Preschool through fourth grade
Designed to help children to explore basic mathematics, the Little Professor* combines the excitement of a space-age game with the time-proven flash card approach to math education. Its preprogrammed problems — over 16,000 in all — offer children problems in addition, subtraction, multiplication and division in four levels of difficulty. It gives the questions. The child gives the answers. It gives the score.

Included with the Little Professor is "Fun with Math Facts," a colorful activity book designed to provide young children with enjoyable early experiences with mathematics. Its challenging games and tasks are organized into increasing levels of difficulty to grow with your child's needs. An optional adapter is available.

Shpg Wt:2 lbs

DATAMAN™

ELECTRONIC LEARNING AID

Item No TIDM

Your Cost **$23.95**

DataMan™
Grades one through six
DataMan* brings fun and excitement to math drills and practice for youngsters. Its imaginative design and dazzling "scoreboard" antics help encourage students to practice longer and to develop positive attitudes about mathematics.

DataMan leads youngsters through the basic four functions of math with an intriguing variety of activities and math strategy games. Fast-paced brain-teasers, such as "Electro Flash" (math tables), "Wipe Out" (a hot potato race), And "Missing Number" (4 × 5 = [ ] for 4 × [ ] = 12). These sharpen math skills and lay the groundwork for future concepts in algebra. And DataMan's memory lets you enter up to 10 problems to give your child extra practice in problem areas.

A timer adds moving light and extra mental challenge. DataMan always gives the child a second try before displaying the correct answer, then rewards top scores with its spectacular "light show."

A 24-page illustrated activity book accompanies DataMan. Students can read the exciting story of DataMan alone or with parents and enjoy its many exciting math games. An optional adapter is available.

Shpg Wt:2 lbs

Electronic Learning Aid

Texas Instruments

Item No TISB

Spelling B™
Preschool through grade three
Spelling B* is an innovative learning aid that makes spelling picture-book easy. The child sees an object pictured in the colorful Spelling B book and learns to spell its name. This word/picture association is designed to create a lasting impression and to help children build their spelling vocabularies fast while having fun.

Spelling B has three levels of difficulty plus special pre-spelling activities (such as "Starts With") for younger children and games (such as "Mystery Word") for all ages. The picture book has 264 carefully selected and tested pictures of familiar objects. And through Spelling B's "Scramble," children or parents can store up to five words at a time for extra practice on particularly troublesome words.

Happy musical tunes and melodies add a whole new dimension of fun to learning spelling. Each of Spelling B's activities has its own sound effects, and a longer melody rewards correctly spelled words and good scores. There's even a raspberry sound following misspelled words. These delightful sound effects keep interest high as children improve their skills.

Your Cost **$36.95**

Shpg Wt:3 lbs

optional AC adapter allows you to use Spelling B without batteries at home or in school.

Spelling B comes in an attractive and sturdy vinyl bookjacket

MATH MARVEL

Item No TIMM

Your Cost **$32.95**

Math Marvel™
Grades one through six
Created in the tradition of the Little Professor, Math Marvel* is more advanced and far more versatile. This exciting new learning aid offers fast-moving, timed activities and games to encourage children to increase their speed, accuracy and range in solving math problems and to expand their powers of reasoning. Math Marvel challenges ambitious students and helps sharpen skills of students who have experienced difficulty in learning math.

Math Marvel generates more than 40,000 problems through a series of seven fast, fun-filled games and activities. It stores the problems that are answered incorrectly. This allows the child to review the ones missed and gain additional practice.

And, to make learning math even more fun, Math Marvel is musical! Happy tones accompany each new activity and an upbeat musical tune plays after good scores. Math Marvel never shows an incorrect response; instead, it gives the child two tries to answer a problem correctly, then provides the correct answer and motivates the child to go on to the next problem.

Math Marvel's memory capabilities allow a parent, teacher or child to enter up to 10 practice problems — for extra review or an added challenge. An accompanying illustrated activity book suggests additional games and activities as well as helpful hints for parents. AC adapter optional.

Shpg Wt:3 lbs

Texas Instruments Mr Challenger™

ELECTRONIC GAME

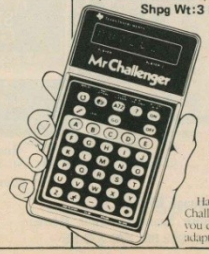
Item No TISM

Mr. Challenger™
Grades two through eight
Mr. Challenger* takes you on with four electrifying word games that you can play by yourself or with a friend. Simple guessing games that can stump anybody. Memory stretchers that'll fool you into fooling yourself. Riddles of pure logic that'll take you in circles.

Mr. Challenger's exciting musical effects, flashing computer letters and hurry-up timer challenge you to make the right moves fast! Play Mystery Word (with 500 of the most hard-to-guess words), Word Challenge, Crazy Letters and Letter Guesser — all age-old word games with some exciting new twists. Three levels of challenge let kids compete with adults. It automatically keeps score and even lets you enter your own words to challenge your friends. And, although Mr. Challenger is lots of fun, you might be surprised at how it can help sharpen word skills and quick-thinking.

Your Cost **$36.95**

Shpg Wt:3 lbs



Four electrifying mind games in one!

For one or two players.

Handheld and battery-operated, Mr. Challenger is a perfectly portable game you can play anywhere. Optional AC adapter available.

ACCESSORIES

BATTERY PACKS

RK-2	Rechargeable kit for TI-30	11.00
BP-1A	Battery pack for TI-58/58C/59	10.00
BP-7	Battery pack for TI-55, TI-57. Also available in brown color for MBA as BP-7-BRN	8.00
BP-8	Replaces BP-5; for TI-30, Bus. Anal., TI-Programmer & SR-40	8.00

CHARGER/ADAPTORS

AC-9130A	120 volt AC adapter/charger for use with BP-1A battery pack	9.00
AC-9130SW	120/240 V AC adapter for BP-1 or BP-1A	13.00
AC-9131	120 V AC adapter/charger for use with TI-58/58C/59	5.00
AC-9132	120 volt AC adapter/charger for use with BP-7 or BP-8 battery packs	6.00
DC-9105	12 volt adapter/charger for BP-1A	13.00
AC-9180	AC adapter for TI-1000 and TI-1025	5.00

USAGE INFORMATION:

AC-9130A	120 volt/same as AC 9130 except different in output. For use in older models:SR-50,SR-50A,SR-51,SR-51A SR-52, SR-56.
AC-9131	For use with TI-30, TI-30SP, TI-58, TI-58C, TI-59.
AC-9132	For use with Bus. Anal. II, TI-Prog., TI-57, TI-55 & MBA.
AC-9130W	120/240 Volt AC Adaptor cna be switched to either 120 or 240 volt AC-good for all TI Calculators having adaptors.
AC-9180	For use with TI-1000 and TI-1025
AC-9180A	For use with Little Prof., Dataman, Spelling B, & Mr. Challenger.
AC-9172	For TI-5025 portable printer. **Cont'd.**

Texas Instruments ACCESSORIES

	SPECIALTY PAKETTES	YOUR COST
SP-MASTER/PAK	Master Pack—Assortment (1 ea) of all 16 Programmable Pakettes	$119.00
SP-SECUR	Securities (TI-59 required)	10.00
SP-STAT/TEST	Statistical Testing	10.00
SP-CIVIL/ENG	Civil Engineering	10.00
SP-ELEC/ENG	Electronic Engineering	10.00
SP-BLACKBODY	Blackbody	10.00
SP-OIL/GAS/ENG	Oil/Gas/Energy	10.00
SP-PROG/AIDS	Programming Aids (TI-59 with PC-100A/C required)	10.00
SP-PRNTR/UTIL	Printer Utility (TI-59 with PC-100A/C required)	10.00
SP-ASTROLOGY	Astrology	10.00
SP-59/FUN	59 Fun (TI-59 required)	10.00
SP-3D/GRAPH	3D Graphics	10.00
SP-MATH	Math	10.00
SP-FLUID/DYN	Fluid Dynamics	10.00
SP-LAB/CHEM	Lab Chemistry (TI-59 required)	10.00
SP-PROD/PLAN	Production Planning	10.00
SP-MKT/SALES	Marketing/Sales	10.00

	SOLID STATE SOFTWARE™ LIBRARIES	
STAT-5859	Applied Statistics	34.95
REI-5859	Real Estate & Investment	34.95
AV-5859	Aviation	34.95
NAV-5859	Marine Navigation	34.95
SURV-5859	Surveying	34.95
LEIS-5859	Leisure Library	34.95
SEC-5859	Securities Analysis	34.95
BUS-5859	Business Decisions	34.95
MATH-5859	Math/Utilities	34.95
EE-5859	Electrical Engineering	47.95
FARM-5859	Farming	34.95
POOL-5859	Pool Water Analysis	39.95

	ACCESSORIES	YOUR COST
BC-59	40 blank cards and card case for TI-59	15.00
CC-30S	Simulated suede carrying case for TI-30	4.00
PW-5859	Programming Workbook for TI-58/58C/59	5.00
	THERMAL PAPER/3 ROLL PACKS	
TP-12150	Three-roll pack of thermal paper for TI-5025	1.95
TP-20225	Three-roll pack of thermal paper For TI-5050M, TI-5025, TI-5135 TI-5040	3.50
TP-27225	Three-roll pack of thermal paper for TI-5015 and TI-5040 TI-5225	4.50
TP-1030265	Three-roll pack of thermal paper for PC-100C PC-100B, PC-100C	10.50
TP-35250	For TI-5230	

TI-99/4 home computer

The remarkable TI-99/4 Home Computer. Compare it. Dollar for dollar. Feature for feature.

Console Retail:$950.00

$450.00

Monitor Retail:$689.95

$389.95

Superior color, music, sound and graphics — *and* a powerful extended BASIC — all built in. Plus TI's special Solid State Software™ and new Solid State Speech™ Synthesizer.

- **Powerful TI-BASIC** – Built-in 13-digit, floating point BASIC. Fully compatible with ANSI Minimal BASIC, but with special features and extensions for color, sound and graphics.
- **Up to 72K total memory capacity** – 16K RAM (Random Access Memory), 26K ROM (Read Only Memory) plus up to 30K ROM in TI's Solid State Software Command Modules.
- **26K ROM** – Operating system, BASIC, floating point, sound and color graphics software are contained in ROM.
- **16-color graphics capability** – Easy-to-access, high-resolution graphics have special features that let you define your own characters, create animated displays, charts, graphs... and more.
- **Music and sound effects** – Provides outstanding audio capability. Build three-note chords and adjust frequency, duration and volume quickly and simply. You can build notes with short, straightforward commands. Five octaves from 110 Hz (Hertz) to beyond 40,000 Hz.
- **Built-in equation calculator** – Unique convenience feature helps you find quick solutions to everyday math problems, as well as complex scientific calculations. Directly accessible from the keyboard.
- **High quality 13" color monitor** – Specially matched for use with the TI-99/4 computer console. Simple, sure hookup.

Additional special features of TI Home Computer BASIC

- Dynamic string variables up to 255 characters.
- Three dimensional arrays of numbers and strings.
- In-line editing with program re-numbering capability.
- Powerful program debug features; breakpoints and trace.
- Variable names up to 15 characters.
- English language error messages.
- Full standard 64 character set provided as default.
- Data I/O to either one or two audio cassettes.

Specifications

Console
CPU: 9900 Family, 16-bit microprocessor, plus 256-byte scratchpad RAM.
Memory: Total combined memory capacity 72K bytes. Internal ROM memory supplied: 26K bytes. External ROM memory: (Solid State Software Command Modules) Up to 30K bytes each. RAM memory supplied: 16K bytes.
Keyboard: Staggered Qwerty, full travel style layout. Overlay for second functions.
Sound: 5 octaves, 3 simultaneous tones plus noise generator. From 110 Hz to beyond 40,000 Hz.

Display
13" color monitor. 24 lines of 32 characters.

Optional accessories
Solid State Speech™ Synthesizer: Approx. 250 English words built in. Accessible from TI BASIC. Accommodates add-on word modules to broaden vocabulary.
Wired remote controllers: Eight-position stick with side-mounted action button.
Solid State Software™ Command Modules: Variety of financial, educational and entertainment programs in rugged, reliable plug-in modules. Modules contain up to 30K bytes of extra ROM.

Three Month Limited Warranty: On TI console, monitor and Command Module hardware.

OHIO SCIENTIFIC

Your Cost **$2799.00**

OHIO SCIENTIFIC NEW C4p DF incorporating state-of-the-art electronics effectively marrying small business capability with personal computer versatility.

Fully integrated small computer system with full 53-key board, color video display interface with elaborate graphics capability, ultra high speed operation, large disk storage capacity, largest direct expansion capacity in personal computing and a large applications software library including word processing, small business accounting, information management, office networking, personal computing, entertainment, education, home control and multi-language capability.

52K total ROM/RAM yeilding 36K program workspace,expand to 96K
Ultra high performance instruction execution performance
TWICE AS FAST AS APPLE II, over 3 times as fast as TRS-80
Standard dual 8" floppies store 600K,access 10 times faster than minis optional 1.2 Mb double sided drives
32 rows of 64 columns of upper/lower case & graphics elements
16 colors, screen resolution to 256 by 512 points
(2)RS-232 ports, (2) 8-axis joystick interfaces,(2) 10-key pad interfaces
AC remote control interface, Home security interface,
8-bit DAC for sound, music & voice output, programmable sound
16 parallel I/O lines & 16 line I/O port for buss expansion
Real time clock standard, OS-65D (small business) & OS-65U (network and hard disk) operating systems standard.

Partial list of Optional Software:
- **Home control with Foreground/Background**
- **UCSD PASCAL and FORTRAN**
- **WP-2 advanced word processing system**
- **OS-MDMS data base management system**
- **OS-DMS advanced information management system for business**

The C4P is built on Ohio Scientific's modular 48 line bus system. The C4P DF utilizes a four slot backplane in which three slots are used. The fourth slot is available for the addition of 48K RAM, or for an OS-65U Level 3 business network interface or for connection to an additional 8 or 16 slots yielding virtually unlimited expansion capability via a 620C bus extender. The C4P DF's state-of-the-art features make it the most advanced table top computer for education, home control, and small business applications. The C4P DF is ideally suited for the small businessman because it provides tremendous small business processing capability as well as security system capability for business use plus extensive educational and entertainment capabilities.

The C4P Cassette System

The C4P cassette system is an entry level computer system which provides many of the powerful features and capabilities of the floppy disk based 4P products in a BASIC-in-ROM and cassette storage configuration.

- Complete small computer system with keyboard, video display interface, audio display interface, BASIC-in-ROM, sound and DAC outputs, joystick and remote keypad interfaces. AC remote control capability.
- 19K total RAM/ROM, 8K program workspace expandable to 32K as a BASIC-in-ROM system, 96K as a disk based system.
- Features high level BASIC-in-ROM equivalent to expensive optional basics on other personal computers.
- Same 53-key keyboard with upper and lower case as C4P DF.
- Same sophisticated video display as C4P DF.
- Extensive I/O capability including: Two 8-axis joystick interfaces. Two 10-keypad interfaces. Sound generator. DAC for sound, music and voice output. AC remote control interface. Switchable audio cassette/modem/printer interface.
- Based on Ohio Scientific's 48 line bus architecture with four slots, only two slots used on the base machine.

The OHIO SCIENTIFIC C4-SERIES

More Computer for your $

heavy duty power supplies now allow expansion to C4P MF or C4P DF by replacing the CPU card and adding the appropriate memory and disk drives.

- Over 120 cassette titles for education, entertainment, personal and small business available today with more coming.

C4P MF

- All the C4P DF features including all interfaces, same fast execution speed, color display, PASCAL and FORTRAN capability with the following exceptions: 28K total RAM/ROM, 24K RAM with 12K program workspace under OS-65D expandable to 48K total RAM.
- Comes with OS-65D business and developmental operating system standard.
- Comes complete with one 90K byte high access speed mini-floppy directly expandable to dual mini-floppies.
- Utilizes Ohio Scientific's modular 48 line bus architecture with one open slot for expansion to 48K or for extending the bus to 8 or 16 additional slots.

The C4P MF is ideally suited for educational and entertainment applications as well as for use as a personalized computer for company executives, managers, educators, scientists, engineers and other professionals. The computer's modem communication capability, easy to use MDMS information management system, immediate calculator mode and library of business aids makes it a valuable addition to any professional's office.

C4P DF

- 52K total ROM/RAM standard with 48K RAM yielding 36K program workspace under OS-65D, expandable to 96K total RAM.
- Ultra high performance 2MHz 6502 coupled with state-of-the-art high speed 8K static RAMS provides instruction execution performance twice as fast as Apple II® COMMODORE PET® and over three times as fast as TRS-80®
- Available GT option increases CPU operation to 1.3 million instructions per second average (3.3MHz CPU) making it approximately twice as fast as Apple III®
- Standard dual 8" floppies store 600K bytes of information. 8 times as much as most mini-floppy based computers and access that information up to ten times faster than typical mini-floppy based computers.
- Available double sided disk option expands floppy disk capacity to 1.2 million bytes.
- Standard computer 53-key keyboard with upper and lower case.
- Displays 32 rows of 64 columns of upper/lower case and gaming and graphics elements with an effective screen resolution of up to 256 by 512 points, up to 16 colors, program selectable 32 by 32 or 32 by 64 modes, program select able NTSC B/W or NTSC composite color outputs (RGB color adapter is available).
- Most extensive built-in I/O ever offered in a small computer: RS-232 port for 300 baud modem. RS-232 port for 300/1200 baud printer. Two 8-axis joystick interfaces. Two 10-key pad interfaces. AC remote control interface. Home security system interface. 8-bit DAC for sound, music and voice output. Programmable sound generator. 16 parallel I/O lines. 16 line I/O port for use with external 48 line I/O card, PROM blaster, 12-bit A/D D/A module and educational hardware development board. Real time clock standard.

Comes complete with OS-65D Ohio Scientific's small business and developmental operating system and OS-65U, Ohio Scientific's advanced network and hard disk compatible business operating system.

Optional software includes the following:

- Extensive entertainment, education and personal program library.
- Home control operating system with **Foreground/Background** allows home monitoring functions while running other programs.
- UCSD PASCAL and FORTRAN.
- OS-AMCAP a complete small business accounting system.
- WP-2 advanced word processing system.
- OS-MDMS small concise data base management system.
- OS-DMS an advanced information management system for business applications.
- DMS compatible specialty packages for accounting, inventory, construction, medical, legal, retailing, etc.

apple computer

Apple III INFORMATION ANALYST

The WORK SAVER
The TIME SAVER
The MANAGERIAL TOOL BOX
The ELECTRONIC WORK SHEET
Design the system that is right for your needs
CALL FOR BEST PRICE

Apple III is available in specific configurations to meet your requirements.

The Apple III Information Analyst has been specifically designed to tackle the time-consuming tasks of budget development, forecasting, scheduling, pricing, return-on-investment, time value of money, and other activities. You can ask "what if...?" as often as you wish, to solve thousands of different problems.

The Apple III Word Processor It offers state-of-the-art features that rival those of systems selling for $10,000 and more.

Apple III offers all the features that have made the Apple II the world's most popular full-feature personal computer. Like high-resolution color graphics to differentiate data. A sound capability to indicate errors or request input. And system modularity for quick and easy expansion.

Apple III also offers an 80-character, upper/lower case display for easy text formatting. Up to 128K characters (bytes) of RAM for increased data handling. Four dedicated cursor keys for single-keystroke cursor movement. And a sculptured keyboard for fast data entry.

Integrated Data Storage – A built-in disk drive makes the Apple III a compact, space-saving unit. And Apple III's Sophisticated Operating System (SOS) provides faster data retrieval and storage – increased productivity for you.

Integrated Interfaces – Apple III's built-in interfaces offer you cost savings and convenience. The serial interface allows your Apple III to communicate with a letter-quality printer or other serial accessory; the Silentype™ interface supports direct connection with Apple's Silentype thermal printer. You don't need to buy interface cards or use any of the expansion slots in your Apple III for attaching these products.

Integrated Numeric Pad – For fast, easy, numeric data entry, Apple III has a built-in, calculator-style numeric pad.

Integrated Clock/Calendar – If you've ever revised a budget or letter and forgotten which copy was the revision, you'll appreciate Apple III's built-in clock/calendar. It automatically date stamps your files. Long-life replaceable batteries keep the clock/calendar running even when the Apple III is unplugged.

Apple III systems offer Apple Business BASIC, a versatile and friendly programming language that's easy to learn. With Apple Business BASIC, you can put thousands of other BASIC programs to work for you, too. Or you can write your own programs and take advantage of Business BASIC's improved formatting capabilities.

If you've programmed before, you can choose from other languages in the Apple software library, including UCSD Pascal™. Since UCSD Pascal is recognized as the microcomputer industry standard, using it as a basis for Apple Pascal gives a user portability. It is this portability and the ease of maintaining Pascal programs that has led Apple to use Pascal for all software currently under development.

			Retail
APPLE THREE SYSTEMS			
Your cost			
A3P0001	Package 1	Apple III Information Analyst Option "A" includes:	$4,340.00
Call us		A3S0001 Apple III System with 96 K RAM Memory A3S0001 Information Analyst Configuration Package A3M0005 12" Black and White Monitor for Apple III	
A3P0002	Package 2	Apple III Information Analyst Option "B" includes:	$4,885.00
Call us		Same as Option "A" plus: A3M0003 Disk II for Apple III	
A3P0003	Package 3	Apple III Information Analyst Option "C" includes:	$5,410.00
Call us		Same as Option "B" plus: A3M0001 Silentype Thermal Printer for Apple III	
A3S0001	Package 4	Information Analyst Configuration Package includes: System Software (SOS) and Manuals Visicalc III Apple III Mail List Manager Apple Business Basic for Apple III	$ 529.00
* A3S0096		APPLE III SYSTEM WITH 96 K RAM MEMORY	$3,595.00
* A3S0128		APPLE III SYSTEM WITH 128 K RAM MEMORY	$4,100.00
APPLE III SOFTWARE			
A3D0002		Visicalc III	$ 250.00
A3D0003		Apple III Mail List Manager	$ 250.00
A3D0004		Apple Business Basic for Apple III	$ 250.00
A3D0005		Apple Pascal for the Apple III	$ 250.00
A3D0006		Apple Fortran for the Apple III	$ 250.00
A3D0009		Apple III System Software and Manuals	$ 250.00
APPLE III ACCESSORIES			
A3M0001		Silentype Thermal Printer for Apple III	$ 525.00
A3M0003		Disk II for Apple III	$ 545.00
A3M0005		12" Sanyo Black and White Monitor	$ 320.00
A3M0009		Vinyl Carry Case for Apple III	$ 75.00
APPLE III CARDS AND PERIPHERAL INTERFACES			
A3B0001		Apple III OEM prototype card	$ 45.00
A3B0002		Apple III Universal parallel interface card	TBA
A3B0003		Apple III serial communications card	TBA
A3B0004		Apple III Analog interface card	TBA
A3B0005		32 K Expansion RAM installed by level one service center	TBA
APPLE III OPTIONS			
A3G0003		Apple III Extended Warranty	TBA
A2M0045		Apple Qume Printer - High letter quality unit Daisy Wheel Printer; 45 CPS Print Speed; Built-in Serial Interface (for Apple III) - for Apple II Serial Interface A2B0005 required; form sizes up to 15 inches; single sheet or continuous form handling; 10 - 12 or 15 CPI, plus proportional spacing	$2,995.00

apple

There's never been a better time to buy an Apple® II.

As low as—
$945.00
Your Cost
Console Only

Standard Features

All Apple Personal Computer Systems offer you these standard features:

- either Integer or Extended (Applesoft) BASIC languages;
- built-in disassembler;
- a ROM-based system control program;
- color graphics and sound capabilities;
- sockets for up to 48K bytes of user memory (RAM); 64K with the Apple Language System;
- cassette interface;
- game input/output connector, and two hand controls for games and other human-input applications;
- typewriter-style ASCII keyboard;
- high-efficiency switching power supply;
- eight accessory expansion slots.

Technical Specifications

Video Display:

Through software selection, an Apple displays text and, when connected to a color monitor or television, color graphics and high-resolution graphics. Its graphics commands allow either of two screen "pages" to be displayed, with four lines of text below the display area.

- Text Mode
  - —40 characters/line, 24 lines
  - —5x7, upper-case characters
  - —normal, inverse or flashing characters
  - —extensive display control software in ROM
  - —full cursor control—protected screen feature
  - —fast display—1000 cps
- Color Graphics Mode
  - —40hx48v resolution (40hx40v with four lines text)
  - —15 colors
- High Resolution Graphics Mode
  - —280hx192v black/white resolution (or 280hx160v with four lines text)
  - —six colors: black, white, violet, green, blue, orange (color resolution is 140hx192v or 160v)

Apple Offers Even More

In addition to extensive software and ease of programmability, Apple also...

- allows you to expand your system as your needs grow, because of its modular method of adding memory and accessories...
- prompts you for input, warns you of errors, and lets you explore music and speech applications with its sound capability...
- heightens your interest with its color graphics capability...
- offers safety and durability, because it is UL-approved as a unit and housed in a rugged, molded case...
- travels with you, because it is lightweight and portable...
- assures you of low service costs, because its components are easily accessible and socket-mounted for quick replacement...
- offers you exceptional reliability, because of its built-in engineering excellence.

Memory:

- User Memory (RAM)
  - —organized in 16K byte increments
  - —easily expanded by inserting memory elements into plug-in sockets
  - —up to 48K RAM can be installed without requiring expansion chassis
  - —up to 64K RAM can be installed through use of the Language System (a plug-in card)
- Language Memory (ROM)
  - —organized in six blocks of 2K bytes each; 2K used for System Control

How to enjoy every byte of an Apple® II.

System Control:

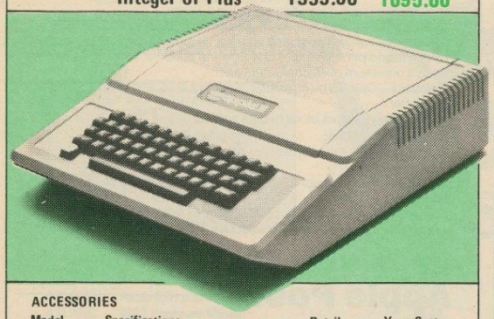
- disassembler;
- automatic input/output device assignment;
- keyboard and screen editing features;
- register examine/modify and read/write cassette routine;
- hex add/subtract for relative branch calculations.

Inputs And Outputs:

- typewriter-style ASCII keyboard;
- cassette interface—1500 bps;
- eight peripheral board connectors, fully buffered, with interrupt and DMA priority structure;
- game I/O: four paddle inputs, three TTL inputs and four TTL outputs.

BASIC APPLE/CONSOLE ONLY

		Retail	Your Cost
A2S0016	16K Bytes RAM Integer or Plus	1195,00	945.00
A2S0032	32K Bytes RAM Integer or Plus	1295.00	1025.00
A2S0048	48K Bytes RAM Integer or Plus	1395.00	1095.00



ACCESSORIES

Model	Specifications	Retail	Your Cost
A2M0003	Disk II - drive only	495.00	439.00
A2M0004	Disk II - with controller	595.00	479.00
• AEZM0044	Disk w/controller w/DOS 3.3 in ROM	645.00	529.95
AEM0005	Monitor Black & white 9" (Sanyo)	240.00	199.95
A2M0009	Vinyl Carrying Case		30.00
A2M0011	Printer 11A - Centronics 779 Tractor/Controller	1545.00	1359.00
A2M0016	Memory Extension Module 16K	160.00	125.00
A2M0017	Modem 11B with Interface	390.00	329.00
A2M0018	Tape Recorder		40.00
A2M0019	Programmers aid No. 1 ROM (use with Integer Basic)	50.00	45.00
A2M0021	Modem 11B only	199.95	179.95
* A2M0024	Clock/Calendar Card	280.00	239.95
A2M0027	Auto-start ROM (for use with the Integer Basic units)	65.00	59.95
A2M0029	Graphics Tablet	795.00	649.95
A2M0036	Silentype Printer/Apple II Interface	595.00	499.95
	ANADEX Apple Sider DP-8000AP compatible with Apple Systems 96 col. 136 CPS	995.00	895.00
	ANADEX Model DP8000 Printer	995.00	895.00
	ANADEX 9500/9501 Alphanumeric	1650.00	1485.00
A2M0047	Apple Qume printer, Daisy wheel, 45 CPS print speed, built-in interface for Apple III, for Apple II serial interface A2B0005 required, forms up to 15 inches, prop spacing included	2995.00	2595.00
A2M0047	Optional Qume Forms Tractors	225.00	199.95

MORE APPLE COMPATIBLE PERIPHERIALS ON PAGES 29-31

personal computer apple®

NEW VERSAWRITER GRAPHICS TABLET with 106 Colors Compatible with Apple Systems
Retail $249.95 Your Cost $219.95

AVAILABLE NOW!

NOW AVAILABLE— NEW DISK CONTROLLERS with DOS 3.3 in ROM

	INTERFACE CARDS	Retail	Your Cost
A2B0001	Prototyping/Hobby Card	24.00	23.00
A2B0002	Parallel printer interface card	180.00	149.95
A2B0003	Communications card and DB25 connector cable	225.00	179.95
A2B0005	Hi-speed serial interface card	195.00	159.95
A2B0006	Language System with Pascal	495.00	399.95
A2B0007	Centronics printer interface card	225.00	179.95
A2B0009	Applesoft II Firmware card with auto-start ROM	200.00	159.95
A2B0010	Integer Basic Firmware card with	200.00	159.95
• ADB0010	80 Column Video Card	350.00	299.95

Software

	PERSONAL SOFTWARE	Retail	Your Cost
PS-01D	Visicalc Diskette	150.00	135.00
PS-02D	Microchess 2.0 Diskette		24.95
PS-20D	CCA Data Management Diskette		94.95
PS-25D	Desktop/Plan Diskette		94.95
PS-03	Microchess 2.0		19.95
PS-04	Bridge Challenger (Int. Apple)		14.95
PS-05	Stimulating Simulations (Int.)		14.95
PS-21	Checker King		19.95
	DYSON		
104	5¼" Soft Sectored Diskette	6.00	4.90
105	5¼" with 16 sector holes	6.00	4.90
107	5¼" with 10 sector holes	6.00	4.90
3740	8" Soft Sectored Disc	9.00	6.95
101/1	8" Hard Sectored Disc	9.00	6.95

Dow Jones Series Portfolio Evaluator

The Stockmarket at Your Fingertips

To use the Portfolio Evaluator Program, you will need:

- Apple II (with Applesoft Firmware card), or Apple II Plus, both with minimum 32K of memory; or
- Apple II with the Apple Language System;
- Apple Disk II with controller;
- Apple Modem IIB (supplied with Apple Communications Interface Card);
- a printer controller card*;
- "password" for the Dow Jones News Retrieval Service
- a video monitor or television;
- a standard, working telephone;
- a compatible printer*;

Storage:
Up to 50 stocks in a single portfolio; 100 portfolios of 50 stocks each on a single diskette.

Language:
Written in Applesoft BASIC.

Dow Jones Access:
15-minute tape delay; exchanges include NYSE, AMEX, and OTC NASDAQ.

MICROSOFT Z-80

SOFTCARD, a plug-in peripheral card for the Apple II that actually contains a Z-80 microprocessor and allows the Apple the Apple to run Software written for Z-80 based computers, also included on diskette in the SoftCard package are the CP/M operating system and Microsoft Basic, the two most significant software packages ever developed. An Incredible value. 349.00 315.00

TAPES AND DISKETTES		Retail	Your Cost
A2B0006	Pascal with Language System	495.00	399.95
A2C0001	Silentype Paper (Box of 10 rolls)		42.50
A2D0000	Blank Diskettes (Box of 10)		48.00
A2D0005	Contributed Programs Vol. III, IV, V		72.95
A2D0006	Contributed Programs Vol. I, II		39.95
A2D0007	Dow Jones Portfolio Evaluator		50.00
A2D0009	Microchess 2.0 Chess Disk		25.00
A2D0010	Disk Utility Pack with DOS 3.2.1		25.00
A2D0012	The Controller	625.00	499.95
A2D0013	Apple Post		49.00
A2D0014	Education Series-The Shell Games		29.00
A2D0018	Bowling Program Diskette		15.00
A2D0025	The Cashier	250.00	214.95
A2D0026	Apple Writer	75.00	69.00
A2D0030	Dow Jones News/Quote Reporter	95.00	88.00
A2D0023	D O S 3.3	60.00	55.00
A2D0029	D O S Tool Kit	75.00	69.00
A2D0032	APPLE Fortran	200.00	175.00
A2D0028	Apple Pilot	150.00	135.00
A2D0033	APPLElot	70.00	65.00
A2D0031	Apple Stellar Invaders		20.00
A2T0000	Blank Cassettes (Box of 25)		99.95
A2T0001	Checkbook Cassette		20.00
A2T0002	Appletrex/Space Wars Cassette		15.00
A2T0003	Color Demo/Breakout Cassette		7.50
A2T0004	Applesoft II Language and Demo Cas.		20.00
A2T0006	RAM test tape with manual		7.50
A2T0011	Finance 1-2 Package		25.00
A2T0012	Datamover/Telepong (Com. Card and Modem Required)		7.50
A2T0013	Microchess 2.0 Chess Tape		20.00

The Controller

Small Business Management and Accounting

To use The Controller, you will need the Apple Business System, which includes:

- Apple II (with Applesoft Firmware Card and Autostart ROM) or Apple II Plus, each with 48K of memory;
- Two (2) Apple II Disk Drives, one with controller;
- Video monitor (preferred) or television set;
- Centronics Model 779 printer;
- Apple Centronics Printer Interface Card.

System Configuration

Language:
Written in Applesoft BASIC.

Reports Generated by The Controller:

General Ledger:

Chart of Accounts (no Balances)
Chart of Accounts (with Balances)
Chart of Accounts Changes
General Journal Report
Standard Entries Journal
Trial Balance (Summary)
Detail Trial Balance
Balance Sheet (Summary)
Detail Balance Sheet
Income Statement (Summary)
Detail Income Statement*
Income Statement (Summary for Departments)
Detail Income Statement (for Departments)

Accounts Receivable:

Customer Master List
Customer Mailing Labels
Sales Journal (by Entry No.)
Sales Journal (by Document No.)
Payment Journal (by Entry No.)
Payment Journal (by Document No.)
Summary Aged Trial Balance*
Detail Aged Trial Balance
Monthly Activity Report
Statements and Summary
Sales Commission Report

Accounts Payable:

Vendor Master List (by Vendor Name or Number)
Vendor Mailing Labels
New A/P Invoice Register (by Voucher No.)
New A/P Invoice Register (by Vendor No.)
A/P Cash Requirements*
Open Invoices by Vendor
A/P Paid Invoice Register
Checks and Stubs
A/P Distribution Journal
A/P Disbursement Journal

Apple Writer

Text Editing Made Simple

Language:
Written in machine language, usable with Integer BASIC or Applesoft.

Display:
Up to 24 lines of 40 characters/spaces each. Upper case displayed in inverse video.

Editing Functions:

Cursor Control—Cursor can be moved up, down, left or right one space at a time; up or down 12 lines at a time; or to beginning or end of text.
Free Memory—Allows user to check amount of memory available.
Disk Access—Allows user to catalog or save files to diskette.
Upper Case Conversion—Allows the user to change up to 15 lines of text into upper case instantly.
Insert/Save—Allows the user to insert a stored file into a new document or save a file segment to the diskette.
Search and Replace—Allows automatic or manual search and replacement of user-specified "strings", including single characters, or words and phrases, parts of words and phrases, sentences, etc., up to a maximum of 76 characters each.
Deletions—Deletes by character, word or paragraph up to 256 characters.
Move Block—Moves block of data within a file.

Printing Functions:

Justify—Allows user to specify centered, or fill-, right-, or left-justified lines of text.
New Page—Allows user to specify when a new page should be started.
Margin Set—Allows user to set top, bottom, left and right margins.
Line Spacing—Allows user to select the number of spaces between lines.
Paper—Provides for continuous fan-fold and single-sheet paper.

Apple Post

Mailing List Maintenance the Apple Way

Disk Drive Requirements

1 to 500 Names	2 drives
501 to 1000 Names	3 drives
1051 to 1570 Names	4 drives
1571 to 2105 Names	5 drives
2106 to 2590 Names	6 drives

Technical Specifications

Language:
Written in Applesoft BASIC

Function:
Mailing List Maintenance

Maximum Size of an Online List:
2590 names

To use Apple Post, you will need:

- Apple II (with Applesoft II Firmware Card), or Apple II Plus, each with a minimum of 32K memory; or
- Apple II or Apple II Plus, each with the Apple Language System;
- Two (2) Apple Disk II drives, one with controller;
- a compatible printer* (optional);
- a printer controller card* (optional);

MICROSOFT for Apple II		Retail	Your Cost
2102	Typing Tutor	14.95	14.95
2203	Adventure	29.95	29.95
2304	Z-80 Softcard	349.00	315.00
2205	Fortran	195.00	175.00
2206	Assembly Language	125.00	113.00
2207	Basic Compiler	395.00	354.00
2208	Cobol	750.00	639.95
ALF			
10-5-16	Apple Music Synthesizer - 3 Voice		245.00
13-3-2	Album I Disk		14.95
D.C. HAYES			
DHA-11	Micromodem II	379.95	339.95
HEURISTICS			
H-2000	Speechlink (64 word vocabulary)	259.00	239.95

apple computer

Apple® II

When it comes to understanding personal computers, Apple wrote the book.

NOW AVAILABLE– NEW – DOW JONES NEWS & QUOTE REPORTER NOW AVAILABLE!

LITERATURE		Your Cost
A2L0001	Apple II/II plus reference manual	20.00
A2L0002	6502 Hardware Manual	15.00
A2L0003	6502 Programming Manual	15.00
A2L0004	Parallel Printer Interface Manual	2.00
A2L0005	Apple II Basic Programming Manual	6.95
A2L0006	Applesoft II Reference Manual	10.00
A2L0007	Communications Interface Manual	2.00
A2L0008	High-Speed Serial Interface Manual	2.00
A2L0010	Contributed Programs Vol. 1-2 Manual	2.00
A2L0011	Programmer's Aid Manual	2.00
A2L0012	Disk II Floppy Disk Manual	10.00
A2L0014	Contributed Programs Vol. 3-5 Man.	2.00
A2L0015	Consumer Guide to personal computers	2.00
A2L0016	Apple Magazine Vol. 1 No. 1 (Ed.)	2.00
A2L0018	Applesoft Tutorial Manual	10.00
A2L0019	Apple Pascal Reference Manual	19.95
A2L0020	Best of Contact	2.50
A2L0029	Apple Magazine Vol. 1 No. 2 (Bus.)	2.00
A2L0030	Apple Magazine Vol. 1 No. 3 (Science and Industry)	2.00
A2L0031	Apple II P.O.S. Flip Chart	10.00
A2L0026	Fortran Reference Manual	25.00
A2L0025	Pilot Reference Manual	25.00
A2L0032	Apple in Depth	3.00

80 Column Video Card FROM APPLE
Software support thru Pascal & Fortran
CALL FOR BEST PRICE

MICROPRODUCTS		Retail	Your Cost
MCX005	Light Pen for Apple (Optical Wand)	195.00	179.50
MILLIKEN COMM.			
M-01	Intro Medical Education Pack (for Doctors)	440.00	339.95
M-05	Additional Diskettes		22.00
M-06	Additional White Brochures		13.00
M-07	Additional Blue Folders		19.50
M-03	Cass Educational Math Package (all package for Apple)	200.00	175.00

MORE PERIPHERALS ON PAGES 29-31

CABLE WORKS		Your Cost
RU1M	RCA-UHF (Apple to Sanyo) B/W monitor - 1 meter	7.95
RU2M	RCA-UHF (Apple to Sanyo) B/W monitor - 2 meters	8.95
RU3M	RCA-UHF (Apple to Sanyo) B/W monitor - 3 meters	9.95
RR1M	RCA-RCA for Green Phosphorus Sanyo monitor to to Apple - 1 meter	6.49
RR2M	RCA-RCA for Green Phosphorus Sanyo monitor to to Apple - 2 meters	7.49
RR3M	RCA-RCA for Green Phosphorus Sanyo monitor to to Apple - 3 meters	8.49

MOUNTAIN HARDWARE		Retail	Your Cost
MHP-X003	Apple Clock with EXT. CHARGER	280.00	249.95
MHP-X006	Supertalker	300.00	269.95
MHP-X007	Romplus + with Keyboard Filter	200.00	179.50
MHP-X016	Introl/X-10 Controller	200.00	179.50
MHP-X015	ROMWRITER	175.00	159.95
MHP-X022	MUSIC SYSTEM	545.00	479.95
MHP-X024	EXPANSION CHASSIS	650.00	569.95
MHP-X026	COPYROM		55.00

PARAPHANALIA		Retail	Your Cost
A2G0000	T-shirt with Apple Logo		10.00
A2G0001	Diskette Holder pages-vinyl, pack of 10		8.50
A2G0003	Extended Warranty Package		195.00
A2G0007	Apple Means Business Binder		139.95
A2G0004	Apple Pascal Syntax poster		4.95 ea.
A2M0034	Desk for Apple computers	220.00	195.95
A2M0035	Desk Return for Apple Computer		125.00

anadex apple/sider

Model DP-8000-AP

Features

- 96 Columns, 134 cps
- 84 Lines Per Minute, Bi-Directional, Nominal Thruput
- High Reliability – Heavy Duty Cycle, 100 M Characters Print Head Life
- Paper Entry Through Bottom or Rear
- 7 x 7 Character Format
- Sprocket Feed
- Variable Width

APPLE COMPATIBLE PRINTER
Your Cost
$895.00

The Anadex apple/sider Model DP-8000-AP Alphanumeric Line Printer, a variation of the highly successful Model DP-8000, has been tailored specifically for use with the Apple Computer Business System (Controller). The Model DP-8000-AP will provide the 96-characters-per-line printout required by the AR, AP and GL software of the Apple Controller. **Retail:$995.00**

HP-85 SYSTEM

HP-85 DESKTOP COMPUTER
16K RAM (Expandable to 32K)
Integral Thermal Printer
Full CRT & Printing Graphics
210K Data Cassette Drive

NOW IN STOCK!

Hewlett-Packard's personal computer for industry, the HP-85A, is a low priced addition to HP's family of BASIC-language desktop computers. It is designed to be used as a computation device or as a system controller in industrial and scientific applications. The total integration into a small package of a keyboard, CRT display, printer and tape cartridge, makes complex problem solving easy.

The easy-to-use BASIC language is fully compatible with and is a superset of ANSI BASIC, with many useful extra features. In addition to a typewriter-like keyset, the keyboard has a numeric keypad, system control and editing keys and eight "soft" keys. Interaction during execution of the program is simplified by the eight "soft" keys, which may be defined by the user to select optional courses for program execution. The prompts for the user-definable keys may be displayed in a special area of the CRT.

When not running programs, the HP-85 can be used in its calculator mode by simply keying in the statements desired and executing them. Because a line is checked for syntax when it is stored, typing errors are caught easily. Editing keys allow quick and easy editing of program lines to speed up program development. A built-in debugging facility simplifies the process of locating errors during program execution.

Graphics has become a major aid in the analysis and presentation of problems and solutions. Full graphics capability is implemented on the HP-85's 127 mm (5 in.) CRT, including user-defined characters, patterns and logos. It is possible to copy the CRT image onto the built-in printer in both the graphic and alphanumeric modes either from the program or the keyboard.

A standard system clock maintains both the date and time of day, and three timers can be set to interrupt program execution and alter the course of program flow.

Four slots on the back of the HP-85 accept a variety of plug-in modules. These include a 16K read/write memory addition and various interface cards. One module has slots for up to six Read-Only Memories (ROMs). ROMs that will soon be available include an I/O and a Printer/Plotter ROM.

A variety of applications software is available on prerecorded tape cartridges for statistical, engineering and management problem solving.

A Complete Computing System in One Small Package.

$2875.00

Desktop Computer only—peripherals listed separately. RETAIL: $3250.00

Built-in Functions

Secant (SEC)	Random number (RND)	Absolute (ABS)
Cotangent (COT)	Sign (SGN)	Fractional part (FP)
+	Square root (SQR)	Integer part (IP)
−	Sine (SIN)	Maximum (MAX)
÷	Cosine (COS)	Minimum (MIN)
*	Tangent (TAN)	Modules (MOD)
Ceiling (CEIL)	Arcsine (ASN)	ln (LOG)
Floor (FLOOR)	Arccosine (ACS)	log (LGT)
	Arctangent (ATN)	e^x (EXP)
	Cosecant (CSC)	Raise to power (Y↑X)

Built-in Operators

Logic: AND, OR, NOT, EXOR
Relational: =, <, >, <=, >=, < > (or #)

Desktop Computer

Features

- Totally integrated system
- Small size
- Superset of ANSI BASIC
- Memory expandable to 32K bytes
- Full graphics capability
- Variety of software pacs
- Peripherals for output and storage
- Full self-test capability
- Typewriter-like, alphanumeric keyboard plus numeric keypad
- Editing keys and built-in debugging facilities
- 127 mm (5 in.) CRT for graphic or alphanumeric displays
- 32-character, bidirectional, scanning-head, thermal printer
- 210K-byte, high-performance tape drive with secure capability.
- System clock and three timers
- Four slots for memory expansion and interfacing
- Eight soft keys for enhanced user control of program execution

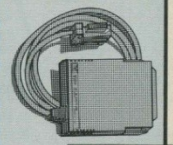
HP-85 SYSTEM GUIDE

Documentation

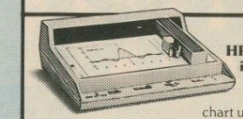
			Your Cost
3-Ring System Literature Binder	82935A	10.00	10.00
HP-85 Owner's Manual	00085-90002	25.00	25.00
HP-85 Pocket Guide	00085-90040	5.00	5.00
Mass Storage ROM Handbook	00085-90038	10.00	10.00
Input/Output ROM Handbook	00085-90142	30.00	30.00
Plotter/Printer ROM Handbook	00085-90140	10.00	10.00
Matrix ROM Handbook	00085-90144	10.00	10.00
HP-IB Interface Manual	82937-90007	10.00	10.00
Serial Interface Manual	82939-90002	10.00	10.00
5-¼" Disc Operators Manual	82901-90001	10.00	10.00
8" Disc Operators Manual	09895-90000	10.00	10.00

Interface Modules and Cables

			Your Cost
HP-IB Interface Module	82937A	395.00	359.00
HP-IB Interconnect Cables			
½ meter	10833D	70.00	65.00
1 meter	10833A	70.00	65.00
2 meters	10833B	75.00	65.00
4 meters	10833C	85.00	80.00
Serial (RS-232C) Interface Module			
Female Connector	82939A	395.00	359.00
Male Connector	Opt 001	395.00	359.00
Current Loop	Opt 002	395.00	359.00
GPIO Interface Module	82940A	495.00	445.00
BCD Interface Module	82941A	495.00	445.00



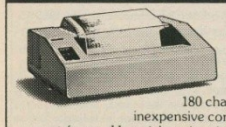
HP 82900-Series Flexible Disc Drives. Each removable flexible disc supplies approximately 270K bytes (formatted) of on-line storage. The maximum configuration with one master unit is approximately 1,080K bytes using an HP 82901M and an HP 82901S. The Mass Storage ROM provides powerful BASIC statements and commands for using the discs with the HP-85 system.



HP 7225A Graphics Plotter. Produces high-quality plots on any size chart up to 210 × 297 mm (8.3 × 11.7 in). Exceptional line quality with addressable moves as small as 0.032 mm (0.0013 in). A 17601A opt. 085 Personality Module (plugs into the HP 7225A) is required for interfacing with the HP-85. The Plotter/Printer ROM completes the interface with an integrated plotting package.

Applications Guide. In statistics, medicine, numerical control, surveying, design, business, and many other areas, there is a need to construct high-quality plots. If your application requires this plotting capability you should include the HP 7225A, the Personality Module, and the Plotter/Printer ROM in your system.

HEWLETT PACKARD



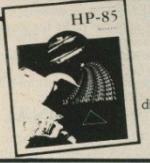
HP 2631B Printer. A full-size, high-speed, bidirectional, dot-matrix, impact printer. Prints 180 characters per second on inexpensive computer paper or multipart forms. Has eight print sizes and forms tractor. The Plotter/Printer ROM integrates the printer into the system. **Applications Guide.** HP-85 applications that produce considerable output, such as reports and data lists, may require the HP 2631B Printer and the Plotter/Printer ROM.

HEWLETT PACKARD

Peripherals

			Your Cost
5-¼" Dual Master Flexible Disc Drive	82901M	$2500.00	2,150.00
5-¼" Dual Add-on Flexible Disc Drive	82901S	2200.00	1,895.00
5-¼" Single Master Flexible Disc Drive	82902M	1500.00	1,290.00
5-¼" Single Add-on Flexible Disc Drive	82902S	1300.00	1,129.00
8" Dual Master Flexible Disc Drive	9895A	6500.00	5,495.00
8" Dual Add-on Flexible Disc Drive	Opt 012	5500.00	4,675.00
8" Single Master Flexible Disc Drive	Opt 010	4750.00	4,075.00
8" Single Add-on Flexible Disc Drive	Opt 011	3750.00	3,225.00
HP 7225A Graphics Plotter	7225A-002	2050.00	1,765.00
Opt. 007. Adds 15 pads of gridless 8½×11-in. paper, assortment of pens, and a pen holder	Opt. 007	75.00	70.00
Opt. 010. Adds vinyl carrying case	Opt. 010	220.00	199.50
17601A Opt. 085 Personality Module	17601A Opt. 085	750.00	675.00
HP 2631B Opt. 885 Printer	2631B Opt. 885	3650.00	3,175.00
Opt. 020. Adds USASCII high density print	Opt. 020	150.00	142.50

HP-85 Enhancement ROMs. Three of the ROMs (Read Only Memories) available are used to integrate peripherals into the HP-85 system. The remainder are available as enhancements to the HP-85 software system. Each ROM comes complete with a detailed owner's manual.



HP-85 Application Pacs. The application pacs contain programs that let you solve specific problems in a variety of disciplines. Each pac consists of a prerecorded tape cartridge and a detailed manual.

HP 82903A 16K Memory Module. This module plugs into an HP-85 port and doubles the computer's memory. The HP-85 accepts one memory module. **Applications Guide.** If your application includes programs like network analysis, instrument control or large graphics and plotting routines, you will find the memory module useful.

Supplies and Consummables

			Your Cost
HP 7225A Plotter Pens (for paper)			
4-Color Pen Pack (Red, Blue, Green, Black)	5060-6810	$6.00	6.00
5 Red Pens	5060-6784	6.00	6.00
5 Blue Pens	5060-6785	6.00	6.00
5 Green Pens	5060-6786	6.00	6.00
5 Black Pens	5060-6787	6.00	6.00
HP 7225A Transparency Supplies			
Transparency Sheets (100)	9270-0639	22.00	22.00
Transparency Solvent	5060-6828	6.00	6.00
Transparency Pens (Black, Red, Blue, Green)	5060-6818	8.00	8.00
Transparency Pens (Black, Orange, Brown, Violet)	5060-6834	8.00	8.00
Transparency Pens, Wide Tip (Black, Red, Blue, Green)	5060-6819	8.00	8.00
Transparency Pens, Wide Tip (Black, Orange, Brown, Violet)	5060-6835	8.00	8.00
HP 7225A Plotter Paper			
8½×11-in., std. grid, English, 100 sheets	9270-1006	7.00	7.00
216×280-mm, std. grid, Metric, 100 sheets	9270-1023	7.00	7.00
8½×11-in, blank, 50 sheets	9280-0475	3.00	3.00
A4 blank, 50 sheets	9280-0476	3.00	3.00
Tape Cartridges, Pkg. of 5	98200A	90.00	85.00
HP-85 Thermal Paper (two rolls, 120m each)	82931A	30.00	3.00
HP 2631B Printer Ribbon Cartridges, Pkg. of 3	92155A	60.00	57.00
10 Pack 5-¼" Discs	92190A	70.00	65.00
10 Pack 8" Discs	92195A	100.00	90.00

Enhancements and Accessories

			Your Cost
HP-85 16K Memory Module	82903A	395.00	359.00
HP-85 Application Pacs			
Standard	00085-13001	95.00	90.00
BASIC Training	00085-13002	95.00	90.00
General Statistics	00085-13003	95.00	90.00
Financial Decisions	00085-13004	95.00	90.00
Math	00085-13005	95.00	90.00
Circuit Analysis	00085-13006	95.00	90.00
Games	00085-13010	95.00	90.00
Linear Programming	00085-13011	95.00	90.00
Text Editing	00085-13034	95.00	90.00
Waveform Analysis	00085-13035	95.00	90.00
Basic Statistics and Data Manipulation	00085-13036	95.00	90.00
Regression Analysis	00085-13037	95.00	90.00
HP-85 Enhancement ROMs			
Mass Storage	00085-15001	145.00	137.00
Plotter/Printer	00085-15002	145.00	137.00
Input/Output	00085-15003	295.00	279.00
Matrix	00085-15004	145.00	137.00
HP-85 ROM Drawer	82936A	45.00	45.00
HP-85 Carrying Case	82933A	120.00	114.00
Cartridge/Manual Holder	82932A	10.00	10.00
HP 2631 Printer Stand	26097A	275.00	259.00
Opt. 002 Adds Paper Rack	Opt. 002	50.00	50.00
HP 7225A Overhead Transparency Kit	17055A	85.00	80.00
HP 7225A Digitizing Sight	09872-60066	35.00	35.00
HP-85 Dust Cover	82948A	15.00	15.00

THE ATARI® 800™ Personal Computer System

(with 16K bytes of RAM)

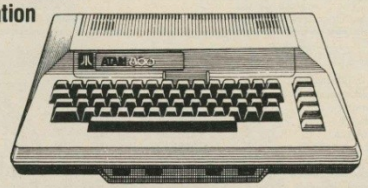
NOW IN STOCK!

ATARI®

- Personal financial records
- Personal development
- Professional applications
- Entertainment
- Information and communication
- Education

Your Cost

$799.95



	Shpg. Wt.	RETAIL	YOUR COST
BASE UNITS			
AT400 Personal Computer System	15 lbs.	630.00	469.95
AT800 Personal Computer System (with 16K RAM)	22 lbs.	1080.00	799.95
PERIPHERALS			
AT410 Program Recorder	7 lbs.	89.95	79.95
AT810 Disk Drive	15 lbs.	699.95	529.95
AT820 Printer (40 Column Impact)	19 lbs.	599.95	449.95
AT822 Thermal Printer (40 Column)	14 lbs.	449.95	359.95
AT825 Printer (80 Column Impact)	19 lbs.	999.95	779.95
AT830 Acoustic Modem	5 lbs.	199.95	169.95
AT850 Interface Module	5 lbs.	219.95	189.95
ACCESSORIES			
ATCX852 8K RAM Memory Module™		124.95	99.95
ATCX853 16K RAM Memory Module™		199.95	169.95
ATCX70 ATARI Light Pen			74.95
ATCX30-04 Paddle Controller Pair			19.95
ATCX40-04 Joystick Controller Pair			19.95
BOOKS AND MANUALS			
AT14768 ATARI 400™ Operator's Manual			2.95
AT14769 ATARI 800™ Operator's Manual			2.95
AT14385 ATARI BASIC (Wiley Book)			5.95
AT15307 ATARI BASIC Reference Manual			10.95
AT15200 ATARI 810™ Disk Operating System Reference Manual			10.95
AT14189 ATARI Assembler Editor Manual			10.95
SOFTWARE			
Personal Finance and Record Keeping Investment Analysis Series			
ATCX4115 Mortgage & Loan Analysis (Tape)			14.95
ATCX8106 Bond Analysis (Diskette)			24.95
ATCX8107 Stock Analysis (Diskette)			24.95
ATCX8101 Stock Charting (Diskette)			24.95

FEATURES & TECHNICAL SPECIFICATIONS

Console: FCC approved, with built-in RF modulator. Connects to any TV.
CPU: 6502 Microprocessor. 0.56 microsecond cycle. 1.8 MHz.
Color: 16 colors, each with 8 intensities
Sound: Four independent sound synthesizers (in addition to audio through TV) for musical tones or game sounds. Four octaves. Variable volume and tone. Internal speaker.
Memory: 16K bytes of Random Access Memory is included. The ATARI 800™ may be expanded up to 48K RAM with user-installed 8K or 16K Atari Memory Modules. The system includes a 10K ROM Operating System. ROM may be expanded up to 26K with user-installed solid-state cartridge programs.
Keyboard: 57 full-stroke alphanumeric keys plus 4 function keys. Upper/lower case. Inverse video. Full screen editing. Four-way cursor control. 29 keystroke graphics.
I/O: Serial input/output port for simple connection to peripherals. Four controller jacks for joystick and paddle controllers and light pen.
Language: Atari BASIC 8K ROM cartridge is included.
Display: Highest graphics resolution 320x192. 24 lines of 40 characters. Three text modes.
Power: AC transformer. UL approved.

ADDITIONAL ATARI 800 FEATURES

RAM Memory: Expandable to 48K bytes with user-installed RAM memory modules.

Keyboard: 57 full-stroke keys plus 4 function keys.

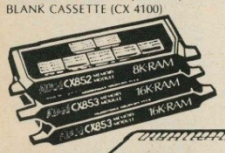
Monitor Jack: Composite video output for connection to a monitor.

Atari BASIC language cartridge is included.

OPTIONAL ACCESSORIES

ATARI® 410 PROGRAM RECORDER
ATARI® 810™ DISK DRIVE
ATARI® 815™ DUAL DISK DRIVE
ATARI® 820™ 40-COLUMN DOT MATRIX IMPACT PRINTER
ATARI® 822™ THERMAL PRINTER
ATARI® 825™ 80-COLUMN DOT MATRIX IMPACT PRINTER
ATARI® 830™ ACOUSTIC MODEM
ATARI® 850™ INTERFACE MODULE
ATARI® PADDLE (CX 30-04) AND JOYSTICK (CX 40-04) CONTROLLERS, AND LIGHT PEN (CX 70)
8K RAM MEMORY MODULE (CX 852)
16K RAM MEMORY MODULE (CX 853)
BLANK DISKETTES (CX 8100)
DISK FILE MANAGER (CX 8101)
BLANK CASSETTE (CX 4100)

ROM PROGRAMS



MEMORY MODULES

ATARI® 810 DISC DRIVE

CX 70 LIGHT PEN

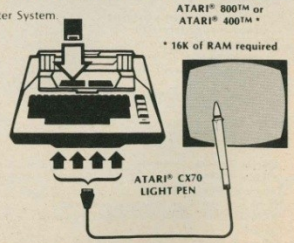
- Use with the ATARI® 400™ or ATARI® 800™ Personal Computer System.
- Plugs into controller jack.
- An addition to family of Controllers.
- Use in all Graphics Modes.
- Program applications in BASIC.
- Paint in up to 5 colors.
- Does not interfere with other programs.
- Lightweight.
- Method of operation: The Light Pen reads the coordinates of the TV electron beam as it passes the Light Pen.
- Resolution: Equivalent to the cursor on the screen (one letter position).
- Updating: Every frame—60 times a second.
- Light sensitivity: Operates under normal viewing conditions with all home televisions and monitors.
- Switch: Includes tip switch to signal computer when pen is pressed to screen.

Your Cost

$74.95

ATARI® 800™ or ATARI® 400™ *

* 16K of RAM required



ATARI® CX70 LIGHT PEN

Singie-sided. single density type with 128 bytes/record and 26 records/track.

FD1-128

In Quantity—your cost as low as $6.00 or less

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 77 tracks are certified to be error-free
	Format	Preinitialized for compatibility with IBM Diskette P/N 2306830
	Recording Density	3268 BPI max. (Track #76)
	Capacity	242944 bytes (128 bytes x 26 sectors x 73 tracks)

FD2-XD

In quantity- your cost as low as $6.95

Double-Sided, double density type without format.

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 77 tracks are certified to be error-free
	Format	Unformatted
	Recording Density	6816 BPI max. (Track #76)
	Capacity	985088 bytes (256 bytes x 26 sectors x 74 tracks x 2 sides)

Floppy Disk maxell®

HIGHEST QUALITY—INDUSTRY STANDARD

CALL TODAY FOR THE BEST PRICE IN THE COUNTRY!

CORVUS HARD DISKS WITH TEN MEGABYTES CAPACITY			
AP	Apple Pascal System	5350.00	4695.00
IIT	TRS-80 System	5350.00	4695.00
IIS	S-100 System	5350.00	4695.00
LS-II	LSI System	5950.00	5195.00
IIAP/A	Add-on Drive for Apple	3690.00	3095.00
IIT/A	Add-on Drive for TRS-80	3690.00	3095.00
IIS/A	Add-on Drive for S-100	3690.00	3095.00
PUP	Pascal Upgrade Eprom		95.00
CUB	Corvus Mirror (VTR required)	790.00	669.00
CAR	Corvus Mirror 2 (VTR required)	890.00	749.00
CON	Corvus Constellation	750.00	639.95
CAB5	Controller with 5' cable	235.00	199.95
CAB15	Controller with 15' cable (Apple)	250.00	224.00
CAB30	Controller with 30' cable (Apple)	275.00	247.00
CAB50	Controller with 50' cable (Apple)	300.00	269.00
U/AT	Upgrade kit for Apple II and Apple III	145.00	129.00
CS/AP	Constellation Software Kit	100.00	90.00
M/AP-RO	Remote Option for Mirror II (Mirror II Conversion)	100.00	90.00

If the above goods are purchased in Los Angeles or Orange Counties, we shall be happy to help in the installation of the goods into Apple products, otherwise the purchaser must make his own arrangement for the installation, hook up and adjustments required for the hook-up of the above. The installation of the above equipment requires experience and knowledge of the product.

In Quantity—as low as-$6.00 or less

FH1-32

CALL US FOR THE BEST PRICES IN THE USA!

Single-sided. Single density type with 32 sector holes.

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 77 tracks are certified to be error-free
	Recording Density	3268 BPI max. (Track #76)
	Capacity	315392 bytes (128 bytes x 32 sectors x 77 tracks)

FH2-32D

In Quantity— your cost as low as $6.95 or less

Double-sided, double density type with 32 sector holes.

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 77 tracks are certified to be error-free
	Recording Density	3268 BPI max. (Track #76)
	Capacity	1261568 bytes (256 bytes x 32 sectors x 77 tracks x 2 sides)

MD2-D

Double-sided, and soft sectored Double density type. CALL US IN THE

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 40 tracks are certified to be error-free.
	Format	Unformatted
	Recording Density	5876 BPI max. (Track #39)
	Capacity	327680 bytes (256 bytes x 16 sectors x 40 tracks x 2 sides)

Single-sided, and hard sectored with 16 sector holes. single density type

MH1

FOR THE BEST PRICES COUNTRY!

SPECIFICATIONS

Recording Performance		
	Track Quality	Missing pulse "0" Extra pulse "0" All 40 tracks are certified to be error-free.
	Recording Density	2768 BPI max. (Track #39)
	Capacity	81920 bytes (128 bytes x 16 sectors x 40 tracks)

YOU'VE TURNED *OFF* THE PORCH LIGHT, TURNED *ON* THE T.V., *STARTED* THE COFFEE, and YOU'RE STILL SNUG IN BED!

The Controller™ BSR SYSTEM X-10™

- Control all lights, appliances from one convenient location
- Dim lights to save energy
- NO SPECIAL WIRING NEEDED!

Simply plug in the units and the BSR System X-10 controls up to 16 lights and appliances from anywhere in the house. Controls include buttons for ALL lights On or ALL units Off. Command signals are transmitted over existing household wiring to the modules of your choice. The Lamp Modules turn On, Off, Dim or Brighten any incandescent lamp up to 300 watts. The Appliance Modules turn appliances like TV's, fans or stereos On or Off.

(A) The Controller, BSR System X-10 Starter Kit. Includes the Command Console, 2 Lamp Modules, 1 Appliance Module. Wood grain plastic. U.L. Listed. Sh. Wt. 2 lbs.
PK 400 ..... $94.99

(B) Wall Switch Module lets you turn On, Off or Dim any incandescent lights, up to 500 watts, normally controlled by present switch. Installs easily. U.L. Listed. Sh. Wt. 5 oz.
WS 711 ..... $18.99

Additional Consoles and Modules.
SC 311 Command Console ..... Wt. 1 lb. $44.99
LM 501/511 Lamp Module ..... 6 oz. $16.99
AM 601/611 Appliance Module ..... 6 oz. $16.99

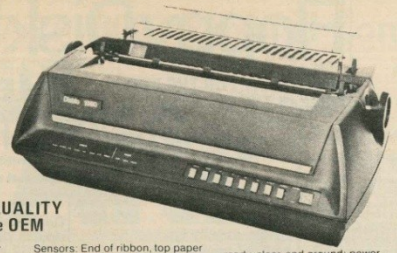
Push One Button to Light Up the House.

THE TIMER™ Runs Your House Like Clockwork

Design your own security system. Just plug in The Timer and the BSR X-10 modules and you can program up to 8 lights and appliances to go On and Off up to twice a day. Fluorescent (green) digital clock display. UL listed. High impact plastic. Wt. 1½ lbs.
TC 201 ..... $74.99

DIABLO

Printers and Terminals



1650
SUPERIOR PRINT QUALITY and Flexibility for the OEM

Print Speed: 40 characters per second, maximum.
Character Set: 88, 92, or 96 printable characters.
Print Wheels: 88, 92, 96 Diablo, 96 Rank Xerox metalized print wheels.
Print Line: 13.1 inches; 132 columns (10 pitch); 158 columns (12 pitch).
Forms Width: 15.5 inches (393 mm) maximum.
Carriage Speed: 300 ms maximum for 132 columns.
Margin Control: Left and right, top and bottom.
Tabulation: Bidirectional, normal and direct.
Column Spacing: Variable, 120 positions per inch.
Line Spacing: Variable, 48 positions per inch.
Paper Feed: Bidirectional, direct, relative line feed, form feed.
Paper Feed Speed: 4 ips, plus 50 ms settling time.

Sensors: End of ribbon, top paper out, cover open.
Paper Thickness: 27/1000 inch (0.686 mm).
Buffer: 256-byte print buffer, 2304 bytes optional, 16-byte keyboard buffer.
Other Features: Self test; host program control through escape sequences.
Power Requirements: +5VDC, 4A; +15VDC, 9A peak; −15VDC, 9A peak; 100 Watts typical average.

Communications
Serial Interface: RS-232-C, CCITT V.24; 110, 300, 600, 1200 baud standard; optional 1800, 2000, 2400, 4800, 7200, or 9600 baud can be substituted for standard 600-baud rate; Bell 103, 113, 212 modem compatible.
Parallel Interface: 8-bit ASCII; 8 data lines, 8 status lines; strobes for both data and status; restore, ready, clear, and ground; power for Diablo keyboard; maximum speed 2000 characters per second.
Current Loop Interface Option: 20 or 60 mA; active or passive; half- or full-duplex; operates up to 4000 feet from host system; interfaces to serial port and operates at speed set for serial port.
Protocols: Data terminal ready, ETX/ACK/NAK, and DC1/DC3 for buffer control; IBM 2741 protocol option, 134.5 baud selected in 110 position when 2741 mode is enabled.

Options
Word processing enhancements. HyPlot, external diagnostics, auto front feed and HyFeed support. IBM 2741 communications. Keyboard programmable Hereis. Option baud rate, APL. Buffer expansion to 2304 bytes. Current loop interface.

Diablo 1640
—same as model 1650, except as noted.

Print Speed: 45 characters per second, maximum.
Character Set: 96 printable characters.
Print Wheel: Plastic daisy wheel.

DIABLO 630
DAISY WHEEL PRINTER features Metalized and Plastic Print Wheel Interchangeability

Print Speed:
Up to 40 characters per second; 32 characters per second (typical) using average English (Shannon) text.
Character Set:
ASCII, 128 characters
Print Wheel:
96-character plastic wheels; 88-, 92- and 96-character metal wheels
Print Line:
13.1 in. (33.27cm); 132 columns (10 pitch); 158 columns (12 pitch); 198 columns (15 pitch)
Forms Width:
16.0 in. (40.64cm) maximum with paper out; 16.53 in. (42.0cm) without paper out
Carriage Speed:
400 ms maximum for 132 columns
Paper Feed Speed:
4 in. per second, plus 50 ms settling time
Paper Thickness:
0.027 in. (0.686mm) maximum
Multicopy Control:
1- to 6-part forms (typical) accommodated by a 2-position carriage lever

Other:
Self-test; host program control through escape sequences; automatic bidirectional printing; support of languages written from right to left.

OEM Printer Communications
Microprocessor Bus Interface:
8 bidirectional data lines, 6 unidirectional control lines for Printer Select, Clear, Read, Write, Address Select and Carriage/Print Wheel Select.

Power Supply
Strappable for operation at 100, 120, 220 or 240Vac; 47 to 63 Hz. Meets UL, CSA and VDE 0804 and 0871 requirements.
Column Spacing:
Variable, 120 positions/in.
Line Spacing:
Variable, 48 positions/in.
Paper Feed:
Bidirectional
Sensors:
End of ribbon, top paper out, cover open, copy control

DIABLO
Model 630
Daisy Wheel Printer Features Metalized and Plastic Print Wheel Interchangeability

VERSATILE PRINTERS & TERMINALS for OEM Data Communications & Word Processing Systems

		Retail	Your Cost
1640/1 RP FP	Latest Design	3060.00	2785.00
1640/1 KSR FP	Latest Design	3540.00	3195.00
1650/1 RO FP	Advanced Design	3239.00	2995.00
650/1 KSR FP	Advanced Design	3720.00	3295.00
630/1 RO FP	Advanced Design	2695.00	2345.00

CENTRONICS

		Retail	Your Cost
737-1	Heavy duty printer compatible w/Apple systems	995.00	895.00
700-9	Heavy duty for heavy work printer, compatible with Apple systems	1460.00	1299.50
700-RIB	Centronics Ribbons		10.50
737 CAB	Adapter Cable for Model 737-I		29.00

Hayes

DHA-100	Micromodem 100	399.95	359.95

Interactive Terminal

NEW FROM HP! Interactive Terminal—Model 2621 with optional thermal printer RS232C RS232C—ASCII plug compatible with virtually all main frame, mini & micro systems.

The 2621A and 2621P terminals emphasize simplicity, reliability, and quality in products designed for interactive applications. The 2621P with an integral thermal printer combines the convenience of local hard copy with the speed of a video terminal.

FEATURES

Display
High resolution CRT
Enhanced 9 X 15 dot character cell
Upper/lower case characters with displayable control codes
Character-by-character underline
Cursor column indicator

Memory
Two full pages (48 lines)
Roll, home-up, and home-down

Hard Copy (2621P)
Clean, quiet integral thermal printer
120 cps maximum print speed
60 cps average print speed
Upper/lower case characters
Excellent character definition
Automatic data logging

Ease of Use
Familiar 68-key, typewriter-style, detached keyboard
Embedded numeric pad
Screen-labeled control keys
8 pre-programmed function keys
Soft configuration

Editing
Character mode editing
—Line mode
—Modify mode
Character and line, insert and delete
Full cursor positioning and sensing
Tabulation and margin control
Clear line, clear display

Reliability and Serviceability
Go/no-go and diagnostic self-test
Modular construction
Low component count

2621A
INTERACTIVE TERMINAL — Retail 1,495.00 — Your Cost 1,345.00

Character Mode, upper/lower case characters with displayable control codes, 24 line by 80 character display, two pages(48 lines) of memory, underline, 110 to 9600 baud, RS232C, CCITT V.24 communications.

For power other than 120V, 60 Hz, order one of the following options: (no extra charge)
*–013 240V, 50 Hz**
*–014 100V, 60 Hz**
*–015 220V, 50 Hz**
*–016 100V, 50 Hz**

**Note: Power options differ between 2621A and 2621P*

Note: Interface cable must be ordered.

2621P INTERACTIVE TERMINAL with PRINTER — Retail 2,650.00 — Your Cost 2,385.00

Same as above with

Integral 120 characters-per-second, 80 column thermal printer. Prints upper/lower case characters, displayable control codes and underline.

For power other than 115V, 60 Hz, order one of the following options: (no extra charge)
*–015 230V, 50 Hz**
*–016 115V, 50 Hz**

Note: Interface cable must be ordered.

ACCESSORIES

		Retail	Your Cost
13222C	RS232 Cable—Female, 2 meters	50.00	47.50
13222N	US Modem cable—Male, 5 meters	75.00	71.25
13222M	Europ. Modem cable—Male, 5 meters	75.00	71.25
13222Y	Three Wire Cable—Male, 5 meters	50.00	47.50
13222Z	Three Wire Cable—Female, 5 meters	50.00	47.50
92160A	Package Blue Thermal Paper	100.00	95.00
92160B	Package of black thermal paper	115.00	109.40

Dimensions of paper: 8½ X 100' (24 rolls)

HEWLETT PACKARD

Anadex

Features
- 132/158/176 or 132/165/198/220 Columns
- Double Width Printing
- 9-Wire Print Head
- 50 to 200 + Lines/Min. 150/200 CPS with 9 × 9/7 × 9 Character Font or 120/200 CPS with 11 × 9/7 × 9 Character Font
- High Density Graphics
- Bi-Directional Printing with Shortest Distance Sensing Logic
- Adjustable Width Tractor Paper Feed
- Stepper Motor Driven Incremental Paper Movement
- 6 or 8 lines per inch
- Complete Forms Control
- Horizontal and Vertical Tabs
- Full Communications Control
- Black Long Life Ribbon Cartridge
- Self Test
- Original plus 5 Copies
- Parallel, RS-232-C and Current Loop Interfaces Standard
- High Reliability-Heavy Duty Construction

Your Cost **$1485.00**
Retail: $1650.00

Alphanumeric Line Printers Models DP-9500 and DP-9501

AN Printer
Model DP-8000

Your Cost **$895.00**

Retail: $995.00

Features
- 80 Columns, 112 cps
- 84 Lines Per Minute, Bi-Directional, Nominal Thruput
- High Reliability – Heavy Duty Cycle, 100 M Characters Print Head Life
- Sprocket Feed
- Paper Entry Through Bottom or Rear
- 9 × 7 Character Font
- Variable Form Width

TVM-10 VIDEO MONITOR

- Designed for monitoring computers, closed circuit TV and Video Tape Recorders
- 9" black and white video monitor
- 10 MHz band width
- Input impedance 75 ohms or High Impedance
- Compact and light weight
- Solid-state transistorized circuitry assures greater reliability and minimum power consumption
- Stabilized power circuit assures a stable, trouble-free and sharp picture
- High quality metallic cabinet
- UHF and Phone Plug Connectors
- Input Level Range 1.0-2.0V (P.P)
- Power Supply 117vac 60 Hz
- Dimensions: 9" x 9" x 9½"

APF TVM-10 Video Monitor
Retail: $225.00
Your Cost: $114.95

RCA's new ColorTrak Video Monitor/Receiver is designed to be the "nerve center" of a complete home video system. It's actually two TVs in one: 1) a fully-featured ColorTrak receiver for normal TV viewing; and 2) a high-resolution video monitor to complement a wide variety of video equipment including video cassette recorders, electronic games and home computer systems.

RCA

Your Cost **$499.95**

Model VEM575
19" diagonal picture

For home computer display

Cabinet of durable plastic construction in Contemporary design. Handsome walnut-grain finish. Dimensions: H-17⅛"; 43.5 cm. W-25½"; 64.8 cm. D-17⅜"; 44.1 cm.

Retail: $795.00

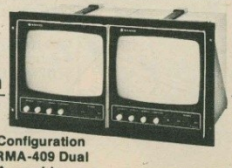
Video Monitor

SANYO

SANYO MONITORS	Retail	Your Cost
VM-4509 9" Black and White Monitor	220.00	199.95
VM-4215 15" Black and White Monitor	295.00	269.95
DM-5112 12" Green Phosphorus Monitor (P31)	325.00	297.50
12" Full Color Monitor	495.00	419.95

APF

LEEDEX L-100
12" Black and White Monitor w/excellent resolution
Retail: $195.00
Your Cost $159.95



VM-4209 9 Inch Video Monitor

Rack Mounting Configuration Using Optional RMA-409 Dual Rack Mounting Assembly

VM-4215 VM-4215
15 Inch Video Monitor

GENUINE HAND-HELD PRINTING CALCULATOR, THE NS500

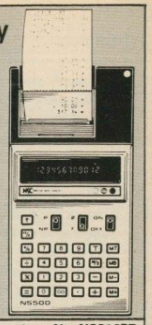
12 Digit Print/Display

Full-Featured

The SMALLEST HAND-HELD

ALL THE FEATURES OF A MUCH LARGER AND MORE EXPENSIVE MODEL!

National Semiconductor



Other printing calculators have been called hand-held printers, but compare the size of the NS500 to the bulk of the other units and you will agree that at last a true hand-held printer is available. The NS500 is just 1 1/5 inch thick, 2 4/5 inches wide, and 5 1/2 inches long. It can actually fit in a man's shirt pocket!

The NS500 functions as a 12-digit thermal printer with 12-digit fluorescent display, or as a display only calculator. Unlike some other small printers, the NS500 includes rechargeable nickel cadmium batteries, a charger, five rolls of paper and a paper adapter that permits the use of larger rolls of paper 1 1/2" wide (38mm) Available in coreless rolls (18mm in diameter) or larger rolls (32mm in diameter).

Make no mistake. Despite its size, the NS500 is a full featured 12 digit display/print calculator.

Your Cost

$68.95

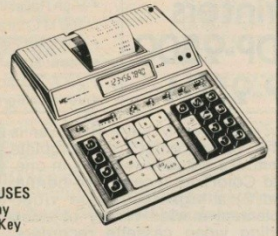
RETAIL:$89.95

Item No. NS500

Shpg Wt:8 lbs

Model NS 410PD Print/Display LCD 10-Digit

IMPACT PRINTER



Your Cost

$89.95

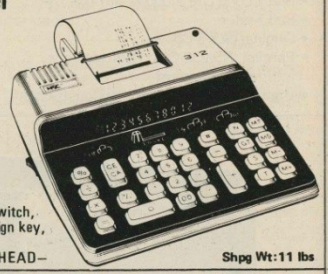
RETAIL:$129.95

Rugged 10-digit Impact printer USES PLAIN PAPER, with LCD display
Fast 2 lines a second with GPM Key
full memory & grand total.
IMPACT PRINTER

Item No. NS410PD Shpg Wt:12 lbs

Model NS 312PD Print/Display Thermal Printer

Item No. NS312PD



Your Cost

$79.95

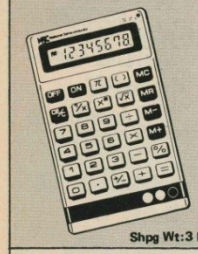
RETAIL:119.95

Full 4-Key Memory
12 digit, punctuation by grouping, Grand Total switch, double zero, %, change sign key, quiet thermal Printer.
SUPERIOR PRINTING HEAD–

Shpg Wt:11 lbs

NS 109 METRIC CONVERTER

Item No. NS109



Your Cost

$24.95

RETAIL:$34.95

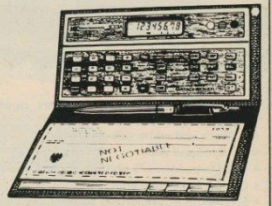
Thirty programmed conversions

Length:	inches ↔ centimeters feet ↔ meters yards ↔ meters miles ↔ kilometers
Area:	square inches ↔ square centimeters square feet ↔ square meters
Mass:	ounces ↔ grams pounds ↔ kilograms
Volume:	cubic inches ↔ cubic centimeters cubic feet ↔ cubic meters
Liquid:	U.S. ounces ↔ milliliters U.S. gallons ↔ liters Imperial ounces ↔ milliliters Imperial gallons ↔ liters
Temperature:	Fahrenheit ↔ Celsius

Shpg Wt:3 lbs

NS 103A DATACHECKER Checkbook Calculator

Item No. NS103A



Your Cost

$29.95

RETAIL:$49.95

3 fully addressable, continuous memories, 8 digit LCD display.
Live percent key w/auto add-on, discount, & net
Grand Total key
Automatic shut-off extends battery life.
Complete with batteries, labels for memories, pen & checkbook case.

Shpg Wt: 3 lbs

NS 300P THERMAL PRINTER 12 Digit Capacity

NS 300 P Same as NS 312PD except without display & Non-Print switch

Item No. NS300P

Your Cost

$69.95

double zero,
Item counter,
Non-add key,
punctuation by grouping,
Grand total register,
Change sign key
Add mode, 12-digit thermal printing.

Shpg Wt: 12 lbs

RETAIL:$109.95

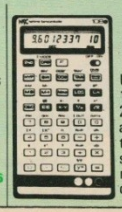
SUPER SPECIAL ON NATIONAL SEMICONDUCTOR Products–

NS104, NS108, color TV Game–CLOSEOUT sold at below our cost!Sold AS IS–all sales final!

calendar, Full Memory LCD
Clock/Calculator 8-digit,
2 time zones,
4 alarm settings
STOPWATCH

Retail:$99.95
Our Cost:$47.00
Your Cost:$27.95
Shpg Wt:3 lbs

Item No. NS104



Item No. NS108
Retail:$69.95
Our Cost:$47.00
Your Cost:$29.95
Shpg Wt:3 lbs

Ultra Slim
10-digit LCD Scientific
2 level %
alpha characters below the mantissa,
statistical cunction
mean & standard deviations

NS Color TV Game THE ADVERSARY plays 4/5 games

Retail:$99.95
Our Cost:$75.00
Your Cost:19.95
Shpg Wt: 8 lbs

Item No. NSADVERS

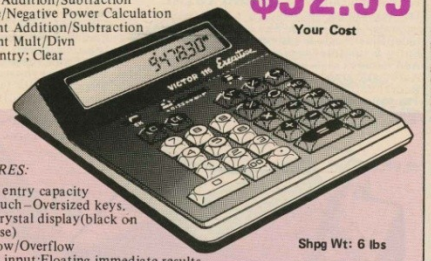
VICTOR 116 LCD DISPLAY – Memory

Item No. VI116

Dual Function M+ & M- Keys
Repeat Addition/Subtraction
Positive/Negative Power Calculation
Constant Addition/Subtraction
Constant Mult/Divn
Clear Entry; Clear

$52.95

Your Cost



FEATURES:

12 Digit entry capacity
Snap Touch–Oversized keys.
Liquid crystal display(black on chartreuse)
Underflow/Overflow
Floating input;Floating immediate results
Decimal Format Selector
Full Accumulating Memory

DIMENSIONS: 7.85" X 5.63" X 1.36"
Power Input: 4 size AA manganese batt

Shpg Wt: 6 lbs

FUNCTIONS: Addition,subtraction, mult,div,percent,square root, change sign, exchange, backspace,one memory.

VICTOR 210 DISPLAY 14 Digit Two Memories

Item No. VI210

Shpg Wt: 6 lbs

Retail: $149.00

Features: Snap Touch, Oversized keys, Rollover buffer, Fluorescent display, Underflow, Overflow.

Decimal System: Features Floating input, floating intermediate results, decimal format selector, decimal rounding selector.
Memory System: Features Two memories, Seven access keys, Special Function Selector.
Constant System: Features
Repeat Addition/Subtraction
Constant Mutl/divn.
Clearing System:
Features Clear Entry/Clear, Clear All.
Capacity: 14 digit entry.

Your Cost

$117.95

DIMENSIONS:
8½" X 8½"X 2¾"

FUNCTIONS: Addition, subtraction, mult., division, square root, percent, item count, change sign, exchange, two memories.

VICTOR 511 ECR ELECTRONIC CASH REGISTER

Item No. VI511ECR

- FRONT AND REAR DISPLAY
- SELECTIVE ITEMIZATION
- LOCKED JOURNAL

Your Cost

$499.95

Shpg Wt: 40 lbs

15¾" wide

FEATURES:

Customer Receipts
Locked in detail tape
Experience designed 11-key posi-touch keyboard
Automatic tax computation
Taxable Merchandise Sorting
Change Computation

Retail: $695.00

Standard Cash Drawer

Audible error tone, Long-term memory protection, Removable key tops, repeat feature, minus adjustment key. Five Control totals.

VICTOR 511 N ECR ELECTRONIC CASH REGISTER

Item No. VI511N

$439.95

Your Cost

You get all these benefits from this sophisticated Electronic Cash Register System...

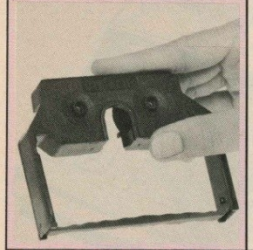
- ☐ itemized customer receipt
- ☐ automatic tax and change computation
- ☐ five control totals
- ☐ automatic taxable and non-taxable sorting
- ☐ locked-in detail audit tape
- ☐ many other standard features to provide complete management control

12½" wide

NARROW Cash Drawer

Shpg Wt: 40 lbs

Retail: $595.00



VICTOR

ESTABLISHED SINCE 1918

CARRYING CASES for VICTOR calculators

Your Cost
$49.50 each

VICTOR 515 ECR Electronic Cash Register

Standard front & rear view window display– very visible.
Four department sales TOTALS
Daily sales totals
Drawer total
Void total
Activity count on dept. & void totals
Mult, a non-add, grand total, change computation.
Rec'd on account key
Paid out key
Programmable check or charge key
56 break point tax table
Digit limit entry key
Bottle refund
Many more features

$599.95

Your Cost
Shpg Wt:45 lbs
Item No. V1515

Retail:$795.00

CARTRIDGE RIBBONS FOR *ALL* VICTOR PRINTERS AVAILABLE *NOW*–

Shpg Wt: 1 lb

Item No. VIRIB		Your Cost
1	cartridge ribbon	4.95 each
6	cartridge ribbons	3.95 each
12	cartridge ribbons	3.25 each
144	cartridge ribbons	2.95 each

MODEL 100
PRINTING CALCULATOR

ADDING MACHINE:
Ten column entry
Ten key adding machine keyboard
Adding machine keys separate from calc keys
Independent Calc & add registers
Add mode
Repeat entries
Two-color ribbon
Non add/date key

Item No. VI100

$109.95

Retail:$139.95

Made in U.S.A.

CALCULATOR:
Multiplication & division
Automatic constant
Percent key

Shpg Wt:13 lbs

RETAIL: $129.95

SPECIFICATIONS:
Power consumption: 100 watts max.
Dimensions L=13.9" W=7.9" H= 3.1"
Paper roll: 2 1/4" standard paper

SPECIAL FEATURES:
Optional cartridge ribbon
Large, clear print
Uniform keyboards
Standard width tape

MODEL 120
PRINTER/DISPLAY
GRAND TOTAL

ADDING MACHINE:
Ten column entry
Ten key adding machine
separated from calc keys
Independent calc & add registers
Entry & sub-total display
Add mode
Automatic grand total
Repeat entries
Two-color ribbon
Non-add/date key

CALCULATOR:
Multiplication & division
Automatic constant
Percent key

SPECIAL FEATURES:
Standard cartridge ribbon
large, clear print
Large punctuated display
Uniform keyboard
Standard width tape

Power consumption: standby 10 watts
Operating 20 watts.
Dimensions: L=13.7", W=7.9" H=3.9"
Paper roll: 2¼" standard paper

$134.95

Retail:$189.95

Shpg Wt:13 lbs

Item No. VI120

MODEL 605
PRINTING CALCULATOR

ADDING MACHINE
- Twelve column entry
- Ten key adding machine keyboard
- Adding machine keys separate from calc keys
- Independent calc & add registers
- Add mode
- Repeat entries
- Two-color ribbon
- Non add/date key

$134.95

Retail:$179.95

Shpg Wt:16 lbs

CALCULATOR
- Multiplication & division
- Automatic constant
- Percent key

Item No. VI605

Made in U.S.A.

SPECIAL FEATURES
- Optional cartridge ribbon
- Large clear print, full punctuation, triplicate spacing
- Uniform keyboards
- Standard width tape

SPECIFICATIONS
Power Input: 105-127 volt, 60 Hz
Dimensions: L=14.5", W=8.5" H=3.5"
Paper Roll: 2 1/4" standard paper

MODEL 610
with perpetual sub-total switch

PRINTING CALCULATOR

Item No. VI610

ADDING MACHINE
- Twelve column entry
- Ten key adding machine keyboard
- Adding machine keys separate from calc keys
- Independent calculator & add registers
- Add mode
- Perpetual sub-total switch
- Item count key
- Repeat entries
- Two-color ribbon
- Non add/date key

$149.95

Retail:$209.95

Made in U.S.A.

RETAIL: $189.00

CALCULATOR
- Multiplication & division
- Automatic constant
- Percent key
- Equals + key, equals - key

Shpg Wt:16 lbs

SPECIAL FEATURES
- Optional cartridge ribbon
- Large, clear print, full punctuation, triplicate spacing
- Uniform keyboards
- Standard width tape

SPECIFICATIONS:
Power Input: 105-127 volt, 60 Hz
Dimensions: L =14.5" W=8.5" H=3.5"
Paper Roll: 2 1/4" standard paper

VICTOR ESTABLISHED SINCE 1918
VICTOR

MODEL 670 PRINTER/DISPLAY
Full Memory plus Grand Total

ADDING MACHINE
- Twelve Column Entry
- Ten Key adding machine keyboard
- Adding machine keys separate from Calc keys
- Independent calculator & add registers
- Entry & sub-total display
- Add mode
- Clear-all key
- Automatic grand total
- Full accumulating memory
- Repeat entries
- Two-color ribbon
- Non add/date key

Your Cost

$249.95

Retail:$349.95

Shpg Wt:16 lbs

Made in U.S.A.

CALCULATOR
- Mutiplication & division
- Automatic constant
- Dual functions M+, M-, =+ and =- keys
- Percent key
- Automatic percent of change
- Automatic mark-up based on selling price

Item No. VI670

SPECIAL FEATURES
- Optional cartridge ribbon
- Large, clear print-full punctuation, triplicate spacing
- Uniform keyboards
- Enclosed paper roll
- Standard width tape

SPECIFICATIONS:
Power Input: 105-127 volt, 60 Hz
Dimensions: L=15" W=9.5" H=4"
Paper Roll: 2 1/4" standard paper

VICTOR

VICTOR MODEL 660
PRINTER - Grand Total
Full Accumulating Memory

ADDING MACHINE
- Twelve column entry
- Ten key adding machine keyboard
- Adding machine keys separate from calc keys
- Independent calc & add registers
- Add mode
- Clear-all key
- Automatic grand total
- Non add/date key
- Full accumulating memory
- Repeat entries
- Two-color ribbon

Your Cost:

$209.95

Retail:$299.95

Item No. VI660

Made in U.S.A.

SPECIAL FEATURES
- Optional cartridge ribbon
- Large clear print, full punctuation triplicate spacing
- Uniform keyboards
- Enclosed paper rolls
- Standard width tape

Shpg Wt:16 lbs

SPECIFICATIONS:
Power Input: 105-127 volt, 60 Hz
Dimensions: L=15" W=9.5" H=4"
Paper Roll: 2 1/4" standard paper

CALCULATOR
- Multiplication & division
- Automatic constant
- Dual function M+, M-, =+ and =- keys
- Percent keys
- Automatic percent of change
- Automatic mark-up based on selling price

PRINTER/DISPLAY
with Grand Total

VICTOR MODEL 620

Item No. VI620

ADDING MACHINE
- Twelve column entry
- Ten key adding machine keyboard
- Adding machine keys separate from calc keys
- Independent calc & add registers
- Add mode
- Perpetual sub-total switch
- Entry & sub-total display
- Item count key
- Repeat entries
- Two-color ribbon
- Non add/date key

Your Cost

$194.95

Retail:$279.95

Shpg Wt:16 lbs

CALCULATOR
- Mutiplication & division
- Automatic constant
- Percent key

SPECIAL FEATURES
- Cartridge ribbon optional
- Large clear print, full punctuation triplicate spacing
- Large punctuated display
- Uniform keyboards
- Standard width tape

SPECIFICATIONS:
Power Input: 105-127 volt, 60 Hz
Dimensions: L=14.5" W=8.5" H=3.5"
Paper Roll: 2 1/4" standard paper

Made in U.S.A.
VICTOR
ESTABLISHED SINCE 1918

Victor 204

DISPLAY CALCULATOR

Your Cost

$79.95

Item No. VI204

FEATURES:
Functions: Addition, subtraction, multiplication, division, percent, item count, exchange, one memory. Oversized keys, rollover buffer; Capacity: 12 digits plus sign and punctuation. Overflow, Six access keys.

Shpg Wt:9 lbs

Fluorescent display: blue on black.
Decimal System: features Floating Input, Floating Intermediate Results, Decimal Format Selector, Decimal Rounding Selector.
Memory System: features one memory, six access keys.
Constant System: features Repeat Addition/Subt., Constant Mult/Divn.
Clearing System: features Clear Entry/Clear & Clear All.

RETAIL: $99.95

DIMENSIONS: 8½" X 8½" X 2¾"

CASIO LC-315

CALL US FOR THE BEST PRICE

Item No CSLC315

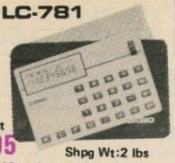
- 8-digit plus repeatable 16-digit approximation, four functions with constants, perfect %'s, √ & independent memory.
- Fine contrast LCD display with function command sign.
- Power-saving automatic power-off function.

Dimensions: 5/16"H x 2-5/8"W x 4-3/8"D

Shpg Wt:2 lbs

BASIC

LC-781



Your Cost **$14.95**

Shpg Wt:2 lbs

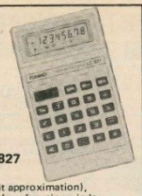
8-Digit LCD credit card calculator.

- Four basic functions, constant, percent, square root, independent memory.
- Memory protection, function indicator.
- Leatherette pouch.
- POWER SOURCE: DC only, 2 silver oxide batteries (G-8), included.

Item No. CSLC781

Dimensions: 5/32" x 3-1/4" x 2-1/8"

LC-827



Your Cost **$16.95**

Item No CSLC827

- 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, and square root.
- Function indicator.
- Automatic power off.
- Beautiful Leatherette wallet (included).
- 4,000 hours battery life from 2 G-13 batteries.

Dimensions: 1/4" x 2-5/8" x 4-1/2"

Shpg Wt:2 lbs

LC-851

Your Cost **$19.95**

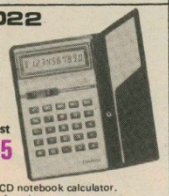
Item No CSLC851

- 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, and square root.
- Function indicator.
- Automatic power off with memory retention.
- 1,000 hours battery life from 2 G-8 batteries.

Dimensions: 5/32" x 2-1/2" x 4"

Shpg Wt:2 lbs

LC-1022



Your Cost **$19.95**

- 10-Digit LCD notebook calculator.
- Four basic function, constant, percent, square root, sign change key.
- Fully independent memory.
- Floating, fixed decimal system: cut-off or round-off 2 places.
- POWER SOURCE: DC only, 2 silver oxyde batteries (G-13), included.

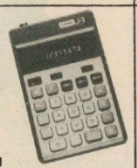
Item No CSLC1022

Dimensions: 1/4" x 2-3/4" x 4-1/2"

Shpg Wt:3 lbs

Late 1980

J-1



Your Cost **$29.95**

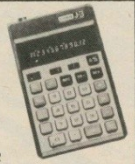
Item No CSJ1

- 8 digit calculator in just right size with large, bright green display.
- Independent memory, perfect percent, square root and sign change.
- AC or 2 penlight batteries (included).
- AC Adaptor (Type 2-3550) optional.

Dimensions: 1" x 4" x 6-3/8"

Shpg Wt:3 lbs

J-3



Your Cost **$39.95**

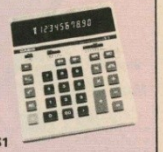
Item No CSJ2

- 12 digit calculator in just right size with large, bright green display.
- Independent memory, perfect percent, square root and sign change.
- AC or 2 penlight batteries (included).
- AC Adaptor (Type 2-3550) optional.

Shpg Wt:2 lbs

Dimensions: 1" x 4" x 6-3/8"

S-1 CASIO



Your Cost **$39.95**

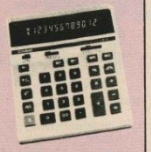
Item No CSS1

- 10-Digit Digitron display desktop calculator.
- Four basic function, constant, percent, delta percent, square root, double zero key.
- Independent memory.
- Full decimal system: floating, fixed (0-6) with round-off, round-up, cut-off, and add mode.
- Convenient fast correction key, sign change key.
- POWER SOURCE: DC; 4 penlight batteries (AA) included; AC adapter (optional).

Dimensions: 1-3/4" x 5-1/4" x 6-3/4"

Shpg Wt:4 lbs

S-2 CASIO



Your Cost **$49.95**

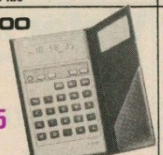
Item No CSS2

- 12-Digit Digitron display desktop calculator.
- Four basic function, constant, percent, delta percent, square root, double zero key.
- Independent memory.
- Full decimal system: floating, fixed (0-6) with round-off, round-up, cut-off, and add mode.
- Convenient fast correction key, sign change key.
- POWER SOURCE: DC; 4 penlight batteries (AA) included; AC adapter (optional).

Dimensions: 1-3/4" x 5-1/4" x 6-3/4"

Shpg Wt:4 lbs

AQ-1500



Your Cost **$29.95**

CALCULATOR: 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, square root, function indicator.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day.

CALENDAR: Year, month, date, day. Permanently programmed from 1910 to 1999.

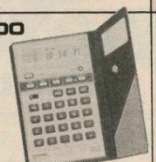
STOPWATCH: Normal, net and lap times (1/10th. second).

- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 9/32" x 2-1/2" x 4-3/8"

Item No CSAQ1500 Shpg Wt:2 lbs

AQ-2200



Your Cost **$39.95**

CALCULATOR: 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, square roots, date calculations, function indicator.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.

CALENDAR: Year, month, date, day with interlocked full-month calendar. Permanently programmed calendar (1910-1999).

ALARM: Alarm signal at preset time.

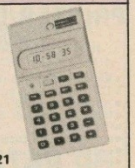
STOPWATCH: Normal, net and lap times (1/10th. second).

- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 9/32" x 2-5/8" x 4-1/2"

Item No CSAQ2200 Shpg Wt:2 lbs

HQ-21



Your Cost **$19.95**

Item No CSHQ21

HANDHELD CALCULATOR CLOCK

CALCULATOR: 8 digit, constant in all four functions, independent memory, percent, time calculations.

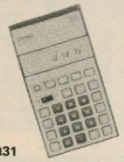
CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day

- Approximate one year continuous operation from 2 penlight batteries.

Dimensions: 3/4" x 3" x 5-3/8"

Shpg Wt:2 lbs

HQ-31



Your Cost **$29.95**

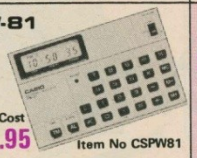
Item No CSHQ31

- 8-Digit LCD handheld calculator with time & calendar.
- Alarm with 20 second electronic buzzer.
- CLOCK: hour, minute, second, AM/PM, date.
- CALENDAR: universal, program range 1910-1999; read-out year, month, date, day with interlocked full-month calendar.
- CALCULATOR: four basic function, constant, percent, square root, independent memory.
- POWER SOURCE: DC only, 2 penlight batteries (AA), included.

Dimensions: 3/4" x 3" x 5-5/8"

Shpg Wt:2 lbs

PW-81



Your Cost **$29.95**

Item No CSPW81

CALCULATOR: 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.

ALARM: Daily alarm signal beeps at preset time.

- Leatherette case included.
- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 3/16" x 3-5/8" x 2-1/4"

Shpg Wt:2 lbs

PQ-10

Limited Supply

Your Cost **$34.95**

Item No CSPQ10

- Travel clock showing the hour, minute, second and AM/PM.
- Alarm with a countdown function and a stopwatch.
- Accurate to within 15 seconds per month.
- 1 year battery life from 2 G-13 batteries.

Dimensions: 5/16" x 4" x 1-5/8"

Shpg Wt:2 lbs

MQ-11

Limited Supply

Your Cost **$49.95**

- Clock with 2 alarms, timer, stopwatch, dual time, universal calendar and 3 date memories.
- 8 digit calculator with 4 functions, 1 permanent memory, perfect percent and square root.
- 1 year battery life from 2 G-10 batteries.
- Leatherette wallet (included).

Dimensions: 2-1/4" x 3-5/8" x 3/16"

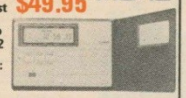
Item No CSMQ11 Shpg Wt:2 lbs

CASIO TIME MQ-12

Limited Supply

Your Cost **$49.95**

Item No CSMQ12



Shpg Wt: 2 lbs

CALCULATOR: 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, date calculations, function indicator.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.

CALENDAR: Year, month, date, day with interlocked full-month calendar. Permanently programmed calendar (1910 to 1999).

ALARM: Alarm signal at preset time.

STOPWATCH: Normal, net and lap times (1/10th. second).

- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 3/16" x 3-5/8" x 2-3/8"

PRINTER HR-10

Item No CSHR10

Your Cost **$49.95**

- 10 digit printer with LCD display (20 digit approximation), constant in all four functions, independent memory, perfect percent, sign change, print key.
- Automatic printing of full month calendar (1901 to 2099).
- Full floating or fixed decimal with cut-off or round-off at 2 places.
- Three way power source: 4 penlight batteries, AC adapter (optional), rechargeable NI-CAD battery kit (optional). (ADPT/AD-4150)
- 4,000 hours battery life from 4 penlight batteries.

Dimensions: 1-5/8" x 3-1/2" x 6-5/8"

Shpg Wt:6 lbs

PRINTER HR-11

Item No CSHR11

Your Cost **$69.95**

- 10-Digit LCD print/display handheld printer with algebraic logic.
- Four basic functions, constant, percent, sign change key, independent memory.
- Floating or fixed decimal system: cut-off (2 places), round-up.
- Print on/off switch, uses plain paper (45mm).
- Easy to replace ink-roll cartridge (IR-72B).
- 3-WAY POWER SOURCE: DC, 4 AA batteries included; AC, adapter included; rechargeable, NI-CAD kit optional.

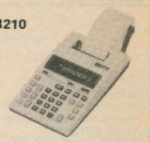
Dimensions: 1-3/4" x 4" x 8-1/4"

Shpg WT:6 lbs

CASIO JR-210

Item No CSJR210

Your Cost **$89.95**



- 12-Digit Digitron print/display desktop printer with arithmetic logic.
- Four basic functions, constant, percent, sign change key, item count key, independ memory
- Full decimal system: floating, fixed (0-4) with cut-off or round-up, add-mode.
- Print on/off switch, uses plain paper (2-1/4").
- Easy to replace ink-roll cartridge (IR-72B).
- 2-WAY POWER SOURCE: DC, 4 AA batteries included; AC, adapter included.

Dimensions: 2-1/4" x 5-3/8" x 12"

Shpg Wt:6 lbs

FR-1010 PRINTER

Item No CSFR1010

Shpg Wt:6 lbs

Your Cost **$99.95**

10-Digit Digitron print/display desktop printer with arithmetic logic.

- Four basic functions, constant, percent, square root, sign change key, item count key, independent memory.
- Full decimal system: floating, fixed (0-6) with cut-off, round-up, add-mode.
- Print on/off switch, uses plain paper (2-1/4").
- Easy to replace ink-roll cartridge (IR-72B).
- POWER SOURCE: AC only.

Also-CSFR1210,same as 1010. 12 digit memory—$129.95 Re.

SCIENTIFIC FX-31

Item No CSFX31

Shpg Wt:2 lbs

Your Cost **$24.95**

- 8-digit or 6-digit mantissa with exponents up to $10^{\pm 99}$.
- 29 scientific functions, independent memory, 6-level parenthesis, standard deviations, true algebraic logic, constants for $+/-/x/\div/X^{Y}/X^{\frac{1}{Y}}$.
- Two-way power source AC (Adaptor: AD-2SI/DC (2 penlight batteries).

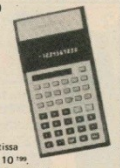
Dimensions: 1" x3-3/8" x 5-3/4"

FX-120

Item No CSFX120

Shpg Wt:2 lbs

Your Cost **$34.95**



- 10-digit or 8-digit mantissa with exponents up to $10^{\pm 99}$.
- 45 scientific functions, independent memory, fractions, 6-level parenthesis, standard deviations, perfect %'s, permutations, combinations, polar ↔rectangular co-ordinates conversions, true algebraic logic, constants for $+/-/x/\div/X^{Y}/X^{\frac{1}{Y}}$.
- Three-way power source AC (Adaptor: 4145) / Rechargeable battery pack (NP-2M) / DC (2 penlight batteries).

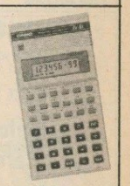
Dimensions: 1" x 3-3/8" x 6-3/8"

FX-81

Item No CSFX81

Shpg Wt:2 lbs

Your Cost **$19.95**



- 8 digit or 6 digit mantissa with 2 digit exponents.
- 30 scientific functions, independent memory, 6 level parenthesis, true algebraic logic, constant for 6 functions.
- Automatic power off.
- 4,000 hours battery life on 2 penlight batteries. (SUM)

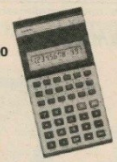
Dimensions: 3/4" x 3" x 5-7/8"

FX-100

Item No CSFX100

Shpg Wt: 2 lbs

Your Cost **$29.95**



- 10 digit or 8 digit mantissa with 2 digit exponents.
- 44 scientific functions, independent memory, 6 level of parenthesis, standard deviation, true algebraic logic, constant for 6 functions, fractions, random numbers, RND, ENG, FIX/SCI/NORM.
- Automatic power off with memory retention.
- 7,500 hours battery life from 2 penlight batteries.

Dimensions: 3/4" x 3" x 5-7/8"

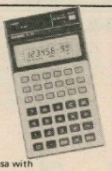
CASIO

FX-310

Item No CSFX310

Shpg Wt: 2 lbs

Your Cost **$29.95**



- 8-digit or 6-digit mantissa with exponents up to $10^{\pm 99}$.
- 50 scientific functions, independent memory, 6-level parenthesis, standard deviations, random numbers, fractions, fixation of significant numbers of digit and fixed decimals (0–9) with round-up/off constants for $+/-/x/\div/X^{Y}/X^{\frac{1}{Y}}$.
- Automatic power-off function with memory retention.
- 180-hr. battery life (2 LR 1130).

Dimensions: 1/4" x 2-3/4" x 5-1/4"

FX-68

Shpg Wt:2 lbs

Your Cost **$29.95**

- 8-digit or 6-digit mantissa with exponents up to $10^{\pm 99}$.
- 37 scientific functions, independent memory, 6-level parenthesis, standard deviations, true algebraic logic, constants for $+/-/x/\div/X^{Y}/X^{\frac{1}{Y}}$.
- Power-saving automatic power-off function.
- 500-hr. battery life (2 G-10, UCC389, 10L 122 or RW-49)

Dimensions: 3/16" x 2-1/8" x 3-5/8"

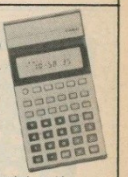
Item No CSFX68

SCIENTIFIC

FX-6100

Item No CSFX6100

Your Cost **$39.95**



Shpg Wt:2 lbs

- 8-Digit handheld scientific calculator with time, alarm, stopwatch.
- 39 Scientific functions with true algebraic logic.
- 8-Digit or 6-digit mantissa with 2 exponents.
- 5 Levels of parentheses.
- Percent, constant for 6 functions, independent memory.
- CLOCK: hour, minute, second, AM/PM.
- One alarm, one countdown timer /alarm, stopwatch.
- POWER SOURCE: DC only, 2 penlight batteries (AA), included.

Dimensions: 3/4" x 3" x 5-7/8"

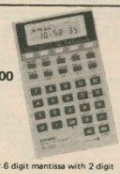
CASIO

FX-7100

Shpg Wt:2 lbs

Item No CSFX7100

Your Cost **$49.95**



CASIO

CALCULATOR: 8 digit or 6 digit mantissa with 2 digit exponents.

39 scientific functions, independent memory, true algebraic logic, constant for 6 functions, percentage.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.

ALARM: Alarm signal at preset time.

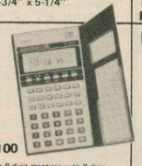
COUNTDOWN ALARM: Signals when zero is reached, (repeat-timer).

STOPWATCH: Normal, net and lap times (1/100th. second).

- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 3/16" x 2-1/8" x 3-5/8"

FX-8100



Your Cost **$49.95**

Item No CSFX8100

CALCULATOR: 10 digit or 8 digit mantissa with 2 digit exponents.

46 scientific functions, independent memory, 5 level parenthesis, standard deviation, true algebraic logic, constant for 6 functions, percentages, fractions.

CLOCK: Hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.

CALENDAR: Year, month, date, day. Permanently programmed calendar (1976 to 1999).

ALARM: Alarm signal at preset time.

COUNTDOWN ALARM: Timer 1 or timer 2 (Repeat timer), countdown alarm signal when zero is reached.

STOPWATCH: Normal, net and lap times (1/100th. second).

- Approximate one year continuous operation from 2 G-10 batteries.

Dimensions: 1/4" x 2-3/4" x 5-1/8"

Shpg Wt: 2 lbs

FX-3500P

Shpg Wt:2 lbs

Your Cost **$44.95**

Item No CSFX3500

- 10-Digit notebook programmable scientific calculator.
- 61 Scientific functions with true algebraic logic.
- 38 Step programmable, linear regression.
- 6 Levels of parentheses.
- 10-Digit mantissa with 2-digit exponents.
- Percent, constant for 6 functions.
- 1 Independent memory, 6 direct constant memory.
- Memory and program protection.
- Automatic power off.
- POWER SOURCE: DC only, 2 silver oxide batteries, (G-10), included.

Dimensions: 1/4" x 2-13/16" x 5-3/16"

FX-502P

Item No CSFX502P

Your Cost **$99.95**

Shpg Wt:2 lbs

- 10-digit or 10-digit mantissa with exponents up to $10^{\pm 99}$
- 51 scientific functions, and 22 (FX-502P) independent memories, and 10-level (FX-502P) parenthesis, sample and population standard deviations, random numbers, removing fractions or integer part, constants for $+/-6x/\div/X^{Y}/X^{\frac{1}{Y}}$.
- Automatic power-off functions with memory retention.
- 256 (FX-502P) programming steps, optional program/data storage using cassette tape recorder with adaptor FA-1
- 1,300-hr. battery life (2 G-13; UCC357, 10L14, RW-22 or RW-44).

Dimensions: 3/8" x 2-3/4" x 5-9/16"

MUSICAL ML-8

Your Cost **$59.95**

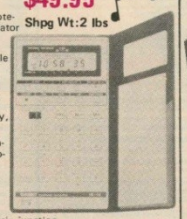
Item No CSML8
- 8-Digit LCD ultra thin compact case musical calculator with time & date.
- 11-Note musical scale with vibrato.
- 10 Pre-programmed melodies for alarms, special dates such as birthday, Christmas.
- 2 Alarms, 1 date memory, time signal.
- CLOCK: hour, minute, second, AM/PM
- CALENDAR: year, month, date.
- CALCULATOR: four basic function, constant, percent, square root.
- POWER SOURCE: DC only, 2 silver oxide batteries (G-10), included.

Shpg Wt:2 lbs Dimensions: 5/16" x 3-7/8" x 2-1/2"

CASIO ML-90

Item No CSML90

Your Cost **$49.95**



Shpg Wt:2 lbs
- 8-Digit LCD thin note-book musical calculator with time & date.
- 11-Note musical scale with vibrato.
- 12 Pre-programmed melodies for alarms, special dates such as birthday, anniversary, Christmas.
- 2 Alarms, 2 date memories, time signal, stop-watch.
- CLOCK: hour, minute, second, AM/PM.
- CALENDAR: year, month, date.
- CALCULATOR: four basic function, constant, percent, square root, independent memory.
- POWER SOURCE: DC only, 2 silver oxide batteries (G-10), included. Dimensions: 7/32" x 2-1/2" x 4-1/2"

ML-81 CASIO

Your Cost **$49.95**

Item No. CSML81

CALCULATOR: 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, square root, date calculations, function indicator.

CLOCK: Hour, minute, second, AM/PM, accurate to 15 seconds per month. Time tones every hour on the hour.

Calendar: Year, month, date, day. Permanently programmed calendar (1901-2099).

ALARM: Two alarm signals or melody alarms at each preset time. Countdown alarm: countdown alarm signal or melody alarm when zero is reached.

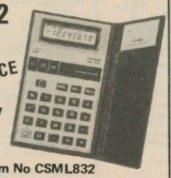
STOPWATCH: Normal, net and lap times (1/10th. second).
- Approximate one year continuous operation from 2 G-13 batteries.

Shpg Wt:2 lbs Dimensions: 5/16" x 4-1/2" x 2-1/4"

CASIO ML-832

CALL FOR BEST PRICE

Melody Card

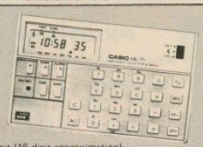


Item No CSML832

11 NOTE MELODY CALCULATOR
- 8 digit (16 digit approximation) constant in all four functions, independent memory, perfect percent, square root. **Shpg Wt:2 lbs**
- Function indicator.
- Automatic power off.
- 1,500 hours battery life from 2 G-10 batteries.

Dimensions: 1/4" x 2-5/8" x 4-1/2"

ML-71



Your Cost **$49.95**

Item No CSML71

Limited Supply

CALCULATOR: 8 digit (16 digit approximation) constant in all four functions, independent memory, perfect percent, date calculations, function indicator.

CLOCK: Hour, minute, second, AM/PM, accurate to 15 seconds per month. Time tones every hour on the hour.

CALENDAR: Year, month, date, day. Permanently Programmed calendar (1901 to 2099).

ALARM: Alarm signal or melody alarm at preset time. Countdown alarm: countdown alarm signal or melody alarm when zero is reached.

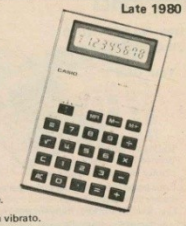
STOPWATCH: Normal and net times (1/10th. second).
- 10 months battery life from 2 G-10 batteries.

Dimensions: 3/16" x 3-5/8" x 2-1/4" **Shpg Wt:2 lbs**

MG-880

Late 1980

8-Digit LCD wallet musical calculator.



Your Cost **$24.95**

Item No CSMG880
- One random number game.
- 11-Note musical scale with vibrato.
- Four basic functions, constant, percent, independent memory.
- One pre-recorded melody (When The Saints Come Marching In).
- POWER SOURCE: DC only, 2 silver oxide batteries (G-10), included.

Dimensions: 1/4" x 2-11/16" x 4-1/2" **Shpg Wt:2 lbs**

MUSICAL

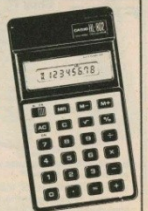
H-813

Your Cost **$10.95**

Item No CSH813 **Shpg Wt:2 lbs**
- 8 digits, 4 functions, 1 memory, perfect percent and square root, with large green display.
- AC or 2 penlight batteries (included).
- AC adaptor (type 2-3550) optional.

Dimensions: 1" x 3" x 5"

HL-802

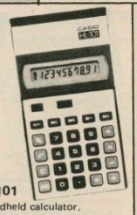


Your Cost **$ 12.95**

Item No. CSMHL802 **Shpg Wt:2 lbs**
- 8 digit LCD display, constant, independent memory, perfect percent, square root.
- Function indicator.
- Automatic power-off.
- 11,000 hours battery life from 2 penlight batteries. (SUM)

Dimensions: 3/4" x 3" x 5-3/8"

HL-101



Your Cost **$17.95**

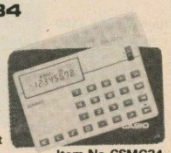
Item No CSHL101
- 10-Digit LCD handheld calculator.
- Four basic function, constant, percent, square root, sign change key.
- Fully independent memory.
- Floating, fixed decimal system: cut-off or round-off 2 places.
- POWER SOURCE: 2 penlight batteries (AA), included.

Dimensions: 3/4" x 3" x 5-5/8"

BASIC

8-Digit LCD credit card metric converter.

MC-34



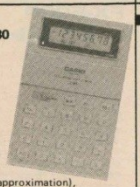
Your Cost **$19.95**

Item No CSMC34 **Shpg Wt: 2 lbs**
- 34 Pre-programmed metric conversions: distances, weights, areas, volumes and temperatures.
- Four basic functions, constant, percent, square root.
- Direct access memory.
- POWER SOURCE: DC only, 2 silver oxide batteries, (G-8), included.

Dimensions: 5/32" x 3-1/4" x 2-1/8"D

LC-80

Item No CSLC80



Your Cost **$29.95**

Shpg Wt:2 lbs
- 1.6mm thin.
- 8 digit (16 digit approximation), constant in all four functions, independent memory, perfect percent, and square root.
- Function indicator.
- Automatic power off with memory retention.
- Leatherette case included.
- 1,600 hours battery life from one lithium battery.

Dimensions: 1/16" x 2-1/8" x 3-3/8"

CASIO ACCESSORIES

AC adaptor	CS3-3128B	$5.00
AC adaptor	CS2-3550	5.00
AC adaptor	CSAD-4145	5.00
AC adaptor	CSAD-4150	6.00
AC adaptor	CSFA-1	39.95
NI-CAD	CSNP-2M	6.00
NI-CAD	CSNP-4M	17.95
INK-Roll	CSIR-72B	3.25
HR-10 paper	CSCMP-36 5roll	6.00

ORDER TODAY!

TOLL-FREE OUTSIDE CALIF.

800-421-8045

FROM CALIF. & INFORMATION

(213)-381-3911

Canon ACCESSORIES

	Your Cost
AC Adaptor AD-1 115 Volt	$ 5.00
AC Adaptor AD-1 220 Volt	6.00
AC Adaptor AD-4 115 Volt	5.00
Rechargeable NiCad Battery Pack-5	7.50
Ink Roller CP-2 (Box of 5 Rollers)	12.50
Ink Roller CP-3	7.50
Ink Roller CP-7 (Box of 5 Rollers)	15.00
Ink Roller CP-8 (Box of 5 Rollers)	15.00
Ink Roller CP-9 (Box of 5 Rollers)	12.50
Charger-3 115 Volt	7.00
Charger-3 220 Volt	8.00
Lithium Battery ½W (Set of 10 Batteries)	30.00
Lithium Battery ½V (Set of 10 Batteries)	30.00
Lithium Battery ¼V (Set of 10 Batteries)	30.00
Carrying Case for PalmPrinter	5.00
Roll Paper for P7-D/P5-D/P3-D (Set of 5 Rolls)	1.50

CANON P10-D PRINT/DISPLAY MEMORY

- 10-digit plus symbols are printed on standard 2-1/4" adding machine tape
- 10-digit, fluorescent display, 4-key memory
- Automatic constant in multiplication & division
- Decimal selection: 0-2-3-F-add-mode
- Optional rounding-off & down
- Item count: printed on the left, indicates the number of addition & subtraction performed
- (% ±) key for add-on, discount & various percent calculations
- Two-key rollover for speed in accurate indexing
- It comes with a charger
- Power source: DC with built-in rechargeable NiCad batteries
- Size: 4-3/8" x 8-9/16" x 1-5/8"

Item No CNP10D

Shpg Wt:8 lbs

Your Cost **$84.95**

Retail:$94.95

CANON P12-D PRINT/DISPLAY MEMORY

- 10-digit plus symbols are printed on standard 2-1/4" adding machine tape
- 10-digit liquid crystal display
- 4-key memory
- Decimal selection: 0-1-2-3-F-add-mode
- (% ±) key for percentage calculations
- Automatic constant in multiplication and division
- Convenient 2-way power sources
- It comes with an AC adaptor
- Power source: DC with 4AA size batteries or AC with AC adaptor
- Size: 6-5/16" x 9" x 2"

Item No CNP12D

Your Cost **$88.95**

Retail:$99.95

Shpg Wt:8 lbs

CANON P7-D PRINT/DISPLAY MEMORY

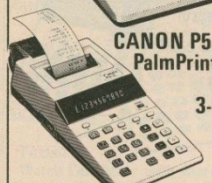
Your Cost **$72.95**

Retail:79.95

Item No CNP7D
- 10-digit plus symbols are printed on 1-1/2" plain roll paper
- 10-digit fluorescent display, 4-key memory
- Decimal selection: 0-2-3-F-add-mode
- Item count, printed on the left, indicates the number of addition and subtraction performed
- Non-add key prints unrelated data without interfering with the calculation in progress
- (% ±) key for percentage calculations
- It comes with a charger and 3 rolls of paper
- Power source: DC with built-in rechargeable NiCad batteries
- Size: 3-7/16" x 8-25/32" x 1-5/8"

Shpg Wt:8 lbs

CANON P5-D PalmPrinter Print/display 3-Key Memory



Item No CNP5D

Your Cost **$59.95**
- 10-digit plus symbols are printed on 1-1/2" plain roll paper
- 10-digit fluorescent display, 3-key memory
- Automatic constant in multiplication and division
- (% ±) key for percentage calculations
- Decimal selection: F (floating), + (add-mode)
- It comes with a charger and 3 rolls of paper
- Power source: DC with built-in rechargeable NiCad batteries
- Size: 3-7/16" x 8-25/32" x 1-5/8"

Shpg Wt:8 lbs

CANON P-3D PalmPrinter Print/Display 3-Key Memory

- 10-digit plus symbols are printed on 1-1/2" plain roll paper
- 10-digit fluorescent display, 3-key memory
- Automatic constant in multiplication and division
- (% + –) key for percentage calculations
- Decimal selection: F-(floating), + (add-mode)
- Printing of up to 7000 lines with 4 penlite batteries
- It comes with 3 rolls of paper
- Power source: 4 AA size penlight batteries
- Size: 3-6/16" x 8-3/8" x 1-5/8"

Item No CNP3D

Your Cost **$48.95**

Shpg Wt:8 lbs

CANON P21 PRINTER with MEMORY

Item No CNP21

Your Cost **$72.95**

Canon
- 10-digit plus symbols are printed on standard 2-1/4" tape
- 4-key memory
- Automatic constant in multiplication and division
- Decimal selection: 0-2-3-4-add-mode
- Optional round-off and down
- Item count: printed on the left, indicates the number of addition and subtraction performed
- (% ±) key for percentage calculations
- Two-key rollover for speed in accurate indexing
- Power source: AC only
- Size: 6-11/16" x 9-1/16" x 1-15/16"

Shpg Wt:10 lbs

CANON P21-D PRINT/DISPLAY MEMORY

Retail:99.95

Your Cost **$88.95**

Item No CNP21D
- 10-digit plus symbols are printed on standard 2-1/4" tape
- 10-digit, fluorescent display, 4-key memory
- Automatic constant in multiplication and division
- Decimal selection: 0-2-3-4-add-mode
- Optional round-off and down
- Item counter, printed on the left, indicates the number of addition and subtraction performed
- (% ±) key for percentage calculations
- Two-key rollover for speed in accurate indexing
- Power source: AC only
- Size: 6-11/16" x 9-1/16" x 1-15/16"

Shpg Wt:10 lbs

CANON P101 PRINTER MEMORY

- 10-digit with accumulation memory
- Canon printing mechanism
- Constant in multiplication & division
- Decimal selection: 0-2-3-4-add-mode
- Automatic setting for dollars & cents
- Line of dashes after addition & subtraction result
- (#○) non-add/subtotal key, prints on the left
- (% ±) key for add-on, discount & various percent calculations
- Power source: AC only
- Size: 8-11/16" x 10-15/16" x 3-5/16"

Item No CNP101

Retail:$109.95

Your Cost **$97.95**

Shpg Wt:10 lbs

CANON P101-D PRINT DISPLAY MEMORY

Item No CNP101D

Your Cost **$116.95**

Retail:$129.95
- 10-digit with accumulation memory
- Easy-to-read fluorescent display with 3-digit punctuation
- Canon printing mechanism
- Constant in multiplication & division
- Decimal selection: 0-2-3-4-add-mode
- Automatic setting for dollars & cents
- Line of dashes after addition & subtraction result
- (#○) non-add/subtotal key, prints on the left
- (% ±) key for add-on, discount & various percent calculations
- Power source: AC only
- Size: 8-11/16" x 10-15/16" x 3-5/16"

Shpg Wt: 12 lbs

CANON P24-D PRINT/DISPLAY MEMORY

Your Cost **$116.95**

Retail:$129.95

Item No CNP24D
- 10-digit plus symbols are printed on standard 2-1/4" plain paper with punctuation space at every three digits
- 10-digit fluorescent display, 4-key memory
- Canon printing mechanism
- Decimal selection: 0-1-2-3-F-add-mode
- (MU) key for markup and markdown calculations
- (Δ%) key for percentage increase and decrease calculation
- Line of dashes after addition and subtraction result
- Power source: AC only
- Size: 7-3/32" x 9-27/32" x 2-17/32"

Shpg Wt:12 lbs

CANON RQ-1 Hi-Fi RADIO Clock Calculator

Your Cost **$88.95**

Item No CNRQ1 Retail:$89.95
- High fidelity radio, quartz clock and calculator
- Calculator: 8-digit and one memory with percentage and square root keys
- Clock: Displays date, day, hour, minute, and flashing second alarm, stopwatch, laptime functions
- Radio: Dynamic audio response from AM/FM tuner with telescoping swivel antenna
- Power source: DC with 2 dry batteries (N) and 1 lithium battery (⅓ V)
- Size: 5-3/64" × 2-11/16" × 25/32"

Shpg Wt:5 lbs

RQ-2 Hi-Fi RADIO/CLOCK 8-Digit Calculator

Your Cost **$79.95**

Retail:$89.95

Item No RQ2

Canon
- High fidelity radio, quartz clock and calculator
- Calculator: 8-digit and one memory with percentage and square root keys
- Clock: Displays date, day, hour, minute, and flashing second alarm, stopwatch, laptime functions
- Radio: Dynamic audio response from AM/FM tuner with telescoping swivel antenna
- Power source: AC with AC adapter (AD-1), DC with 3 AAA size batteries and 1 lithium battery (⅓ V)
- Size: 7-5/16" × 4-1/16" × 2-11/64"

Shpg Wt:5 lbs

Canon Palmtronic F-57T

Your Cost **$39.95**

Scientific & Statistical

- Scientific and statistical calculator with chronometer function • 8-digit display or 5-digit mantissa with 2-digit exponent in scientific and statistical functions
- 29 scientific and statistical functions
- Accurate crystal quartz clock with the display of hours, minutes, seconds and signs of a.m./p.m.
- Two channel alarm settings
- Countdown timer and 3-way stop watch functions
- 4 metric conversions
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 5-3/8" × 5/16"

Item No CNF57T **Shpg Wt:4 lbs**

Palmtronic F-62

Your Cost **$44.95**

Advanced Scientific & Statistical

- Advanced scientific & statistical calculator with liquid crystal display
- 10-digit, one memory capacity
- About 1200 hours battery life of continuous use
- 8-digit mantissa & 2-digit exponent plus sign
- Versatile scientific functions: Hyperbolics & their inverse, Polar & rectangular conversion & more
- Advanced statistical functions: Factorial, Permutation, Combination & probability, Areas under normal distribution curve & more
- Power source: 2 lithium batteries
- Size: 2-3/4" × 4-9/16" × 3/8"

Item No CNF62 **Shpg Wt:4 lbs**

F-72 Palmtronic

Your Cost **$54.95**

Scientific & Statistical LCD

- Scientific and statistical calculator with liquid crystal display
- Compact, notebook type stylish calculator
- 10-digit, one memory capacity
- About 1500 hours battery life of continuous use
- Easy-to-operate complete independent function keys
- Three levels (max.) of parenthesis
- About 1500 hours battery life of continuous use
- 8-digit mantissa and 2-digit exponent in scien. notation
- Versatile 46 scientific functions and statistical functions
- Power source: 1 lithium battery
- Size: 2-23/32" × 4-17/32" × 15/32"

Item No CNF72 **Shpg Wt:5 lbs**

L813 Display

Your Cost **$32.95**

Desk-Top/Memory Rechargeable

- 8 oversized & bright digits
- Upright position of the display panel
- Convenient large keytops
- Decimal selection: 0-2-4-F-add-mode
- Rounded-off answers
- Automatic constant in multiplication & division
- Percentage for add-on, discount & various percent calculations • Rechargeable
- Sign change key • Accumulation memory
- Square & raising to power functions
- Algebraic logic
- Power source: 4AA size penlight batteries or optional AC adaptor/charger with NiCad batteries
- Size: 5-3/16" × 6-1/8" × 1-3/4"

Item No CNL813 **Shpg Wt:6 lbs**

L1011 Display

Your Cost **$44.95**

Desk-Top Rechargeable

- Rechargeable
- 10 oversized & clear digits. 3-digit punctuation
- 4-key memory
- Commercial logic, rougded-off answers
- Constant switch for multiplication & division calculations
- Decimal settings: 0-2-4-F add-mode
- Automatic decimal settings for dollars & cents
- (% ±) key for percentage problems
- Overflow indication with keyboard lock
- Large size key tops
- Power source: 4AA size penlight batteries or optional AC adaptor/charger with NiCad batteries
- Size: 5-3/16" × 6-1/8" × 1-3/4"

Item No CNL1011 **Shpg Wt:6 lbs**

CANON LC 1016 Display

Your Cost **$44.95**

Desktop LCD

- 10-digit bright liquid crystal display
- One memory with automatic accumulative function
- Decimal selection: 0-2-3-F-add-mode
- (% ±) key for percentage calculations
- Square root key
- (±%) percent increase/decrease key for business calculations
- Optional rounding off/down
- Automatic constant
- Automatic punctuation mark at every 3 digits
- About 10,000 hours battery life of continuous use
- Power source: 2 AA size penlight batteries
- Size: 5-1/4" × 6-1/4" × 1-3/8"

Item No CNLC1016 **Shpg Wt:6 lbs**

Canon LC817T Display

Your Cost **$63.95**

Clock & Calculator

- 8-digit, one memory calculator with time functions
- Liquid crystal display
- Versatile time functions:
  Time display (hour, minute, seconds). Stopwatch function. Calendar display. Alarm function & more
- Power source: 3 silver oxide batteries
- Size: 5-15/16" × 3-7/16" × 1-3/4"

Item No CNLC817T **Shpg Wt:6 lbs**

LC815T Display

Your Cost **$72.95**

- 8-digit, one memory calculator with clock functions
- Liquid crystal display
- Versatile clock functions: Time display (hour, minute, second), World time display (20 cities are available), Stopwatch function, Calendar display (calendar of 1901-2099) is pre-programmed, Alarm function, Time & Date calculations & more
- Power source: 2 silver oxide batteries & 1AA size penlight battery for alarm buzzer
- Size: 5-1/2" × 7-3/8" × 1-5/16"

Item No CNLC815T **Shpg Wt:6 lbs**

Canon F-63 Palmtronic Scientific LCD Statistical

Your Cost **$35.95**

- Scientific and statistical calculator with liquid crystal display
- Compact, notebook type stylish calculator
- 10-digit, one memory capacity
- Easy-to-operate complete independent function keys
- Three levels (max.) of parenthesis
- About 1500 hours battery life of continuous use
- 8-digit mantissa and 2-digit exponent in scien. notation
- Versatile 46 scientific functions and statistical functions
- Power source: 1 lithium battery
- Size: 5-19/32" × 3-1/2" × 1/4"

Item No CNF63 **Shpg Wt:5 lbs**

Palmtronic F-53

Your Cost **$35.95**

Scientific & Statistical LCD

- Scientific and statistical calculator with liquid crystal display
- 8-digit, one memory capacity
- About 3000 hours battery life of continuous use
- Scientific functions include: Trigonometrics and their inverse, common and natural logarithm and their inverse, & more
- Statistical functions include: Standard deviation, Mean, & more
- Power source: 1 lithium battery
- Size: 2-11/16" × 4-1/2" × 9/64"

Item No CNF53 **Shpg Wt:5 lbs**

Palmtronic F-55s Scientific/ Statistical

Your Cost **$27.95**

Credit Card Size Calc!

- Credit card size scientific and statistical calculator
- 8-digit, one memory capacity
- 5-digit mantissa and 2-digit exponent in scien. notation
- The sliding switch facilitates access to the special functions
- Scientific functions: Trigonometrics and their inverse, common and natural logarithm and their inverse, square root and more
- Statistical functions: Standard deviation, Mean and Number of variables
- Power source: 1 lithium battery
- Size: 2-1/4" × 3-3/4" × 1/4"

Item No CNF55S **Shpg Wt:2 lbs**

Palmtronic FC-52

Your Cost **$27.95**

Metric Converter

- Metric converter calculator
- Bright and easy-to-read liquid crystal display
- 8-digit, one memory capacity
- (% ±) key for percentage calculations
- Power source: 1 lithium battery
- Size: 2-9/16" × 4-21/64" × 9/64"

Item No CNFC52 **Shpg Wt:2 lbs**

CANON FC-42 Palmtronic

Your Cost **$24.95**

Metric Conversion Calculator

- Metric conversion calculator
- Easy-to-read well-defined liquid crystal display
- 8-digit, one memory capacity
- About 2500 hours battery life of continuous use
- 28 metric conversion functions
  - Measures of distance, area, volume, weight, temperature, and more
- (% ±) key for percentage calculations
- Power source: 2 silver oxide batteries
- Size: 4-3/4" × 2-3/4" × 19/64"

Item No CNFC42 **Shpg Wt:2 lbs**

CANON F-42 Palmtronic

Your Cost **$22.95**

Scientific LCD

- Scientific calculator with liquid crystal display
- 8-digit, one memory capacity
- About 2000 hours battery life of continuous use
- 5-digit mantissa and 2-digit exponent plus sign
- Scientific functions: Trigonometrics and their inverse, common and natural logarithm and their inverse and more
- Mode selector switch: Radian · Degree · Gradian
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 5" × 5/16"

Item No CNF42 **Shpg Wt:2 lbs**

Palmtronic F-32

Your Cost **$19.95**

Mathematical Calculator

- Liquid crystal display calculator designed for mathematical calculations
- 8-digit, one memory capacity
- About 5000 hours battery life of continuous use
- Function keys for mathematic calculations:
  - ( ) key for calculations using parenthesis (one level)
  - (π) key for constant Pi
  - ($\sqrt{}$) key for extraction of square root
  - (x^2) key for square calculation
  - (1/x) key for reciprocal calculation
- Automatic power saving function
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 5" × 5/16"

Item No CNF32 **Shpg Wt:2 lbs**

CANON LC-31 Palmtronic

Your Cost **$12.95**

5,000 Hours of battery life!

- Bright and easy-to-read liquid crystal display
- 8-digit, one memory capacity
- About 5000 hours battery life of continuous use
- Constant in addition, subtraction, multiplication & division
- (% ±) key for add-on, discount & percentage calculations
- Square root key
- Sign change key
- Power source: 2 AAA size batteries
- Size: 2-3/4" × 5" × 7/16"

Item No CNLC31 **Shpg Wt:2 lbs**

CANON QS-1 Palmtronic

Item No CNQS1
Your Cost **$63.95**
Shpg Wt 4 lbs

Calculator, Clock & Calendar

- Calculator with quartz clock and schedule function
- Schedule function: Seven sets of alarm time for daily and weekly planning. Unique symbolic picture display for alarms
- Clock: Displays hour, minute, second and a sign to indicate the day of the week
- Calculator: 8-digit one memory with percentage and square root keys
- Power source: 1 lithium battery (⅓ W)
- Size: 2-11/16" × 4-17/32" × 3/16"

Canon QC-1 Palmtronic Calculator Clock

Your Cost Item No CNQC1
$45.95
Shpg Wt 4 lbs

- 8-digit one memory calculator with quartz clock and calendar display
- Calendar display includes year, month, whole date of a month
- Preprogrammed calendar within the range of 1900-2099
- One of the numbers in calendar flashes to tell today's date
- Quartz clock ticks time with the display of hour, minute, second, on a.m. or p.m.
- Time signal function
- Power source: 2 silve oxide batteries
- Size: 2-9/32" × 5-3/4" × 3/8"

LCD Calculator with "Memo" function

Item No CNLCMEMO
Your Cost **$45.95**
Shpg Wt 3 lbs

LC-Memo Palmtronic

- 8-digit one memory calculator with "Memo" function
- Liquid crystal display
- Alphabet display
- 21 Memos are kept alive for almost 1 year
- A memo contains up to 8 alphabetical letters & 12 numeric digits
- Battery power check indication
- Keyboard lock switch for protection of Memo
- 7.5mm thick
- Power source: 3 silver oxide batteries
- Size: 4-11/16" × 2-1/2" × 5/14"

LC-5T Palmtronic Pocket Watch Calculator with Alarm

Item No CNLC5T
Your Cost **$36.95**
Shpg Wt 3 lbs

- Pocket watch calculator with alarm function
- 8-digit, one memory capacity with liquid crystal display
- Time display: Hour, minute, second with AM-PM indicator
- Calendar display: Date and day of the week (Sun-Sat)
- Stopwatch with lap time features, start and stop
- Alarm clock with electronic beep sound
- Choice of finishes (black or silver)
- Power source: 1 lithium battery
- Size 2-9/16" × 4-5/16" × 1/8"

LC-61T Palmtronic

Item No CNLC61T
Your Cost **$32.95**
Shpg Wt 3 lbs

Pocket Watch Calculator with Alarm

- Pocket watch calculator with alarm function
- 8-digit, one memory capacity with liquid crystal display
- Time display: Hour, minute, second with AM-PM indicator
- Calendar display: Date and day of the week (Sun-Sat)
- Stopwatch with lap time features, start and stop
- Alarm clock with electronic beep sound
- Choice of finishes (black or silver)
- Power source: 1 lithium battery
- Size: 2-3/16" × 3-1-11/16" × 1/8"

MD-81 Palmtronic

Item No CNMD81
Your Cost **$28.95**
Shpg Wt 3 lbs

8-Digit Calculator with 4-key Memory

- 8-digit capacity with four-key memory
- Unique dual display function for:
  - Expressing operation process
  - Visualizing content of the memory besides displaying normal calculation
  - Displaying a constant number as well as a result in automatic constant calculation
- (% ±) key for add-on, discount & percentage calculations
- (RV) key for reversing an operator and operand
- Power source: 2 silver oxide batteries
- Size: 2-1/2" × 4-3/4" × 1/4"

Canon Palmtronic LC-4T

Item No CNLC4T
Your Cost **$22.95**
Shpg Wt 2 lbs

8-Digit Calculator with Time Display

- 8-digit one memory calculator with timepiece display
- Bright and easy-to-read liquid crystal display
- Hour, minute, second is displayed
- (% ±) key for percentage calculations
- Square root key
- Automatic constant calculations
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 4-3/4" × 5/16"

LC-10M Palmtronic

Item No CNLC100M
Your Cost **$28.95**
Shpg Wt 3 lbs

2,000 Hrs Battery Life!

- Bright and easy-to-read liquid crystal display
- 10-digit capacity with three-digit punctuation commas
- One line memory
- About 2000 hours battery life of continuous use
- (△%) key for percentage increase and decrease calculation and markup/markdown calculation
- (% ±) key for percentage, add-on and discount calculations
- Square root key
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 4-3/4" × 5/16"

CANON LC-7 Palmtronic

Item No CNLC7 **$28.95**

Extra Thin 8-Digit Calculator—Credit Card Size

- Credit card size calculator
- Bright and easy-to-read liquid crystal display
- 8-digit, one memory capacity
- Extra thin (1.9mm thick)
- About 1800 ho s battery life of continuous use
- Available in silv, or black cover
- (% ±) key for percentage calculations
- Square root key
- Power source: 1 lithium battery
- Size: 3-5/16" × 2-1/8" × 5/64"

Shpg Wt 2 lbs

LC-61 Palmtronic

Item No CNLC61
Your Cost **$19.95**
Shpg Wt 2 lbs

Credit Card Size Calc!

- Credit card size calculator
- Bright and easy-to-read liquid crystal display
- 8-digit, one memory capacity
- More than 2000 hours of continuous use
- Choice of finishes (black or silver)
- Easy-to-operate spacious keyboard
- (% ±) key for add-on, discount and various percent calculations
- Square root key
- Power source: 1 lithium battery

LC-52 Palmtronic

Item No CNLC52
Your Cost **$19.95**
Shpg Wt 2 lbs

3,000 Hrs. Battery Life!

- Bright & easy-to-read liquid crystal display
- 8-digit, one memory capacity
- About 3000 hours battery life of continuous use
- Extra thin (3.5 mm thick)
- Choice of finishes (black or silver)
- Constant in addition, subtraction, multiplication & division
- (% ±) key for add-on, discount & percentage calculations
- Square root key
- Sign change key
- Pocketbook-type accessory case
- Power source: 1 lithium battery
- Size: 2-9/16" × 4-5/16" × 1/8"

LC-41 Palmtronic

Item No CNLC41
Your Cost **$17.95**
Shpg Wt 2 lbs

3,000+ Hours of Use

- Bright and easy-to-read liquid crystal display
- 8-digit, one memory capacity
- More than 3000 hours battery life of continuous use
- Choice of finishes (black or silver)
- Constant in addition, subtraction, multiplication & division
- (% ±) key for add-on, discount & percentage calculations
- Square root key
- Sign change key
- Raising to powers
- Power source: 2 silver oxide batteries
- Size: 2-3/4" × 4-3/4" × 5/16"

Canon OFFICE CALCULATORS FOR HEAVY DUTY USE

Model	Description	Retail	Your Cost	Shpg Wt
P1420D	Printer/Display, 14 digit, 2 memories, many more features	$499.95	$399.95	15 lbs
P1410D	Printer/Display, 14 digit, High Performance, many features	399.95	329.95	15 lbs
CP1214D	Printer/Display, 12 digit, auto, s selective accumulation, mark-up, two key rollover	329.95	279.95	14 lbs
CP1202D	Printer/Display, 12 digit, Grank Total, two kay rollover	279.95	229.95	13 lbs
CP1202	Printer, 12 digit, large numbers, Grand Total more	229.95	197.95	13 lbs
CP1230D	Printer/Display, 12 digit, 3 memories, full range of bus. applicatio delta %, dual item counter	369.95	309.95	13 lbs
CP1014	Printer, 10 digit, memory, fast canon magnetic printing	179.95	154.95	12 lbs
CP1002	Printer,10 digit, fast, quiet	159.95	139.95	12 lbs
CP1014D	Printer/Display, 10 digit, fast magnetic printing, fixed & floating decimal, memory	229.95	197.95	12 lbs
CP1002D	Printer/Display, 10 digit, fast, prints lines & dashes	189.95	164.95	12 lbs
CP1214	Printer, 12 digit, advanced with selective accumulation	279.95	229.95	12 lbs
	DISPLAY ONLY			
I1632	16 digit, 3 independent memories, item count, mark-up/down discount & more features	499.95	399.95	13 lbs
L1423	14 digit, 2 memories, round up/dn	349.95	297.95	11 lbs
CD1212	12 digit, versatile accum mem, delta %, mark-up/dn	169.00	149.95	10 lbs
CD1012	10 digit, memory, delta %	149.95	134.95	9 lbs
CD1004	10 digit, Grand Total 10 digit, Grand Total, constant	109.95	99.95	9 lbs

CLASSIC 50 DELUXE PRINTER/DISPLAY with FULL Memory

UNITREX

Item No. UXC50

$129.95

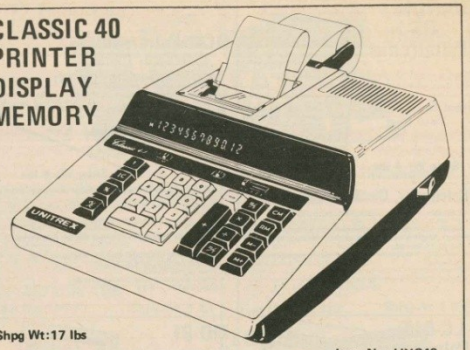
Your Cost

Shpg Wt:17 lbs

Retail: $189.95

Results and entries can be calculated in print, on large green digitron or in both modes simultaneously by adjusting a 2 mode switch.
Digitron display keeps running sub-total and enables you to see visual entry prior to key depression.
Adds, subtracts, multiplies and divides.
Does chain and mixed calculations.
Selectable decimal point with 2, 4, and 6 setting as well as "add mode" and "full float" position.
Fully addressable memory selectively stores and accumulates in separate register.
Memory accumulation setting allows all calculated results to be automatically accumulated in the memory.
Automatic constants in all four functions.
Full 12-digit capacity, entries and answers up to 9,999,999,999.99.
Item count key indicates the total number of entries in addition and subtraction.
Two color ribbon for negative sub-totals and credit balances printed in red.
Automatic percentage key with add on and discount capability.
Mark up key automatically gives selling price calculated on desired mark up, and stated cost.
Exchange key used for reciprocal calculations.
Sign change key for changing the value of any given entry or result.
Backspace key allows clearing of the last digit of an entry for correction purposes, without clearing the entire entry.
Clear and clear entry key for easy correction.
Non add key for reference numbers.
5/4 switch allows either rounded-off or automatic truncated results.
High speed buffered keyboard for convenient touch operation.
Power on, memory in use, overflow, and error indicators.
Automatic paper advance and alignment with standard 2¼" tape.
Seiko impact printing head.
11½" x 9¾" x 3½".
U.L. approved AC operation.

CLASSIC 40 PRINTER DISPLAY MEMORY



Item No. UXC40

$119.95

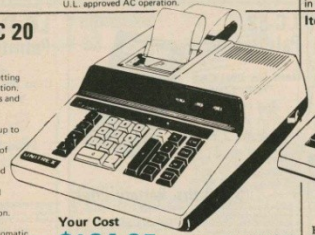
Your Cost

Shpg Wt:17 lbs

Retail: $159.95

Two color ribbon for negative sub-totals and credit balances printed in red.
Automatic percentage key with add on and discount capability.
Clear and clear entry key for easy correction.
5/4 switch allows either rounded-off or automatic truncated results.
High speed buffered keyboard for convenient touch operation.
Power on, memory in use, overflow, and error indicators.
Automatic paper advance and alignment with standard 2¼" tape.
Results and entries can be calculated in print, on large green digitron display or in both modes simultaneously by adjusting a 2 mode switch.
Digitron display keeps running sub-total and enables you to see visual entry prior to key depression.
Selectable decimal point with 2, 4, and 6 setting as well as "add mode" and "full float" position.
Fully addressable memory selectively stores and accumulates in separate register.
Full 12-digit capacity, entries and answers up to 9,999,999,999.99.
Item count key indicates the total number of entries in addition and subtraction.
Non add key for reference numbers.
Adds, subtracts, multiplies and divides.
Does chain and mixed calculations.
Automatic constants in all four functions.
Seiko impact printing head.
11½" x 9¾" x 3½".
U.L. approved AC operation.

UNITREX CLASSIC 20



Adds, subtracts, multiplies and divides.
Does chain and mixed calculations.
Selectable decimal point with 2, 4, and 6 setting as well as "add mode" and "full float" position.
Fully addressable memory selectively stores and accumulates in separate register.
Automatic constants in all four functions.
Full 12-digit capacity, entries and answers up to 9,999,999,999.99.
Item count key indicates the total number of entries in addition and subtraction.
Two color ribbon for negative sub totals and credit balances printed in red.
Automatic percentage key with add on and discount capability.
Clear and clear entry key for easy correction.
Non add key for reference numbers.
5/4 switch allows either rounded-off or automatic truncated results.
High speed buffered keyboard for convenient touch operation.
Power on, memory in use, overflow, and error indicators.
Automatic paper advance and alignment with standard 2¼" tape.
Seiko impact printing head.

Your Cost

$104.95

Item No. UXC20
Shpg Wt:16 lbs

Retail: $149.95

UNITREX CLASSIC 12 Deluxe Desk Calculator FULL MEMORY

Item No UXC12

Your Cost

$79.95

Retail: $99.95

Backspace key
Item count key, auto. % key
Clear & clear entry key
Non-add key
Mark-up key
AC/DC operation w/rechargeable battery
Internal timer auto. turns off display after apprx. one minute
Adds, subtracts, multiplies & divides
Chain & mixed calc.
12-digitron display
Fully addressable memory
Memory accumulation switch
Selectable decimal point
Constant switch
Square root key
Exchange key

Shpg Wt:9 lbs

Printing Calculator with Memory

CLASSIC 10 IMPACT printer with LCD DISPLAY MEMORY

UNITREX

Your Cost

$89.95

HANDHELD Item No UXC10

Add, subtract, multiply & divide
Chain & mixed calc.
Selects decimal point
Fully addressable 4-key memory
Auto constants in all four functions.
10-Digit capacity
Auto. item count, % key
Mark-up key
Non-add key
Clear/clear entry keys
Non-print mode
Power-on, memory in use, overflow & error indicators
LCD display
10,000 hrs battery life using display mode only. 4 penlight "AA" batt. last on print mode through 5 rolls standard tape.
Uses standard 2 1/4" tape

Shpg Wt:7 lbs

Retail: $149.95

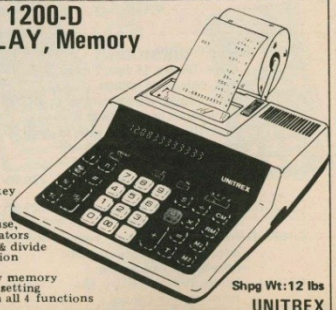
Optional AC Adaptor No. ADCL – $8.95

SOVEREIGN 1200-D PRINT/DISPLAY, Memory

Item No UX1200D

Your Cost

$94.95



Item count, % key, clear/clear entry
Markup & mark down key
Non-add key
Impact printing head
Power on, memory in use, overflow & error indicators
Add, subtract, multiply & divide
Chain & mixed calculation
Selectable decimal
Fully addressable 4-key memory
Memory accumulation setting
Automatic constants in all 4 functions
12-Digit capacity

Shpg Wt:12 lbs

UNITREX

ELECTRONIC CASH REGISTERS by "UNITREX"

Extremely good sellers because they offer high quality at very low cost—solid state technology with microcomputer capability.

MODEL R130A

with simultaneous Audible Sound, Electronic Display and Printed Tape

Your Cost

$299.00

Item No UXR130A

Shpg Wt;40 lbs

Retail: $495.00

Size:
17½" x 12⅝" x 10⅞"

AS SIMPLE TO OPERATE AS AN ADDING MACHINE

New! An audible constant tone is generated every time a key is depressed.

Other Features: Provides automatic sales tax computation and change calculation.

Detailed audit tape shows complete record of payments, credits and discounts on taxable and non taxable items.

Prints consecutive transaction number on journal. Uses duplicate carbonized tape. Original is for customer receipt. Carbon copy is stored as receipt journal.

New! Multiplication key, automatic paper advance, non-add key, selective tax, and item count.

Enjoy the convenience of big bright electronic display plus detailed audit tape.

A workhorse of a keyboard with

(1) Buffered keyboard 0-9 **(2)** New double zero key **(3)** Minus key for discounts, refunds or pay-outs **(4)** Tax rate can be set from .01 to 9.99 (6.0 equals 6%) **(5)** Multiple items at same price can be registered by repeated depression of the plus key. **(6)** Multiplication key **(7)** Clear key **(8)** Non-add key **(9)** Mode switch **(10)** Tape feed key **(11)** Cash—Amount tendered key.

MODEL R202A FRONT & BACK DISPLAY

- Four place clerk coding with mode locking switch.
- Big bold dual display faces operator as well as customer.
- Provides a receipt for each sale. Uses double-layer roll of paper providing customer receipt plus journal tape. Standard 2¼" paper
- Consecutive transaction number printed on tape after each transaction.
- Two-color ribbon
- Buffered Keyboard complete with multiplication and double zero keys.
- Change computation can be performed before or after amount tendered key is depressed

Your Cost

$379.00

Item No UXR202A

Shpg Wt:44 lbs

- Totals Cash Sales, Tax and Net Sales
- Extra power source (batteries included) No loss of information in case of temporary black-out.
- Pleasant-sounding Audible Tone is generated every time a key is depressed or error indicated

NEW! An audible constant tone is generated every time a key is depressed.

NEW! Multiplication key, automatic paper advance, non-add key, selective tax and item count.

Retail: $595.00

NEW! "Front and back" display

NEW! Locking mode switch. Locking cash drawer.

NEW! Extra battery power source. No loss of information in the event of temporary blackout.

Enjoy the convenience of a big bright electronic display plus detailed audit tape.

Model MC-1000 Pocket-sized RECORDER

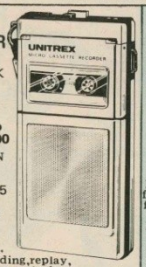
DICTATION MACHINE
ELECTRONIC NOTE BOOK
THOUGHT TRAP

Your Cost

$59.95

Item No UXMC100

Less than 1" THIN



AC Adaptor No.A415 -$4.95
Foot Control No.MPF1 -$6.95
Instant start/stop
Hi-Fi playback thru speaker
Opt. foot pedal & AC adpt.
Comes w/carry case,
ear phone & batt. wrist strap.
One thumb control for recording,replay, fast rewind,volume adj.,pause control
30-40 min. capacity per cass.
Drop-in mini cassette compatible w/ Phillips-Norelco brand dict. equip
Built-in mike w/auto gain control

Shpg Wt:6 lbs

UNITREX

Model TS-1000 FULL FEATURED Mini-cassette TRANSCRIBER

UNITREX

Your Cost

$199.95

Item No UXTS100

Shpg Wt:10 lbs

Fast froward & fast rewind
Volume Control
Earphone
Instantaneous stop/start
Heavy duty foot control
Non skid surface on bot. of foot control
Speed control
Complete w/7' power cord, stethoscope type listening device, foot control, dust cover.

DESK-TOP DIGITAL CALCULATOR Model 1000M

Item No UX1000M

Your Cost

$29.95

UNITREX Shpg Wt:5 lbs

Adds, subtracts, multiplies, & divides
Floating or fixed (2) decimal point systems
Automatic constant
Repeat add'n & subtract'n
Percentage calculations
Mark up & discount
Gross product margin & percentage diff. calc.
Item counter
Adding machine type key operation.

Retail: $59.95

Unitrex Sovereign 1000D Impact printer/display Full Memory

USES PLAIN PAPER

Your Cost

$89.95

Retail: $129.95 Item No UX1000D

Shpg Wt: 13 lbs

10 digit print/display
Memory
Percent key
"N" Counter
Large keyboard
Double zero key and many more features

Item No UX1000

Sovereign 1000 Printer with Memory

$79.95 Retail: $119.95

1011LPD Unitrex

Item No UX1011LP

Your Cost

$68.95

Uses plain paper print/LCD display
% memory
10 col. print/display

Shpg Wt:4 lbs

Model LCSL SOLAR Powered Calculator

8 digit display
Power supply, solar cells— no battery needed
4 key memory
Automatic shutoff
Automatic % key w/add-on & discount capability
Automatic square root
Automatic constant

NEVER BUY BATTERIES AGAIN!

Your Cost

$28.95

Item No UXLCSL

Shpg Wt:2 lbs

Complete w/billfold carrying case
Adds, subtracts, multiplies & divides
Chain & mixed calculations

Retail: $39.50

Item No AP180

- 10-digit impact printer with 10-digit liquid crystal display
- Fixed or floating decimal
- Full accumulating memory
- Percent key • Gross profit margin • Change-sign key
- Non-print mode • Round-down switch • Black printout
- 10"L x 2¾"H x 1¼"W

APF

APF M180 PRINT with LCD Display Full Memory

Your Cost

$89.95

Shpg Wt:13 lbs

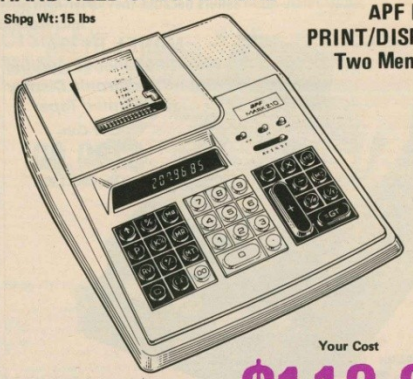
Retail:$139.95

PRINTING CALCULATORS/ HAND HELD CALCULATORS

Item No AP210

Shpg Wt:15 lbs

APF M210 PRINT/DISPLAY Two Memories



- 12-digit impact printer with 12-digit fluorescent display
- Fixed or floating decimal
- 2 full accumulating memories
- Percent key, change-sign key, print key • Automatic paper feed • Item counter • Non-print mode • Black/red printout • 12¼"L x 3½"H x 9"W

Your Cost

$119.95

Retail:$169.95

APF

Item No AP285

SPECIAL FEATURES:
Percent key for add-on and discount calculations
Plus/minus key
Exchange key
Print key
Item counter
Non-print mode
5/4 round off
Larger + and − keys for easier operation
Automatic and manual paper feed

APF M285 PRINT/DISPLAY Full Memory Exchange Key

Your Cost

$109.95

DISPLAYS: 10-digit printout tape and large 10-digit fluorescent display

MEMORY: Fully accumulating memory Memory indicator on display and tape

PUNCTUATION: Commas on display

DECIMAL SYSTEM: A,0,1,2,3,F (floating)

PRINT: Black printout

ACCESSORIES INCLUDED:
Dust cover
Standard paper tape
Instruction book

DIMENSIONS:
11½" L x 2½" H x 8¾" W

Shpg Wt:14 lbs

Retail:$139.95

APF

Item No AP125

Your Cost

$69.95

M125A HAND HELD PRINT/LCD Display Full Memory AC/DC Portable

DISPLAYS: 10-digit printout tape and 10-digit liquid crystal display

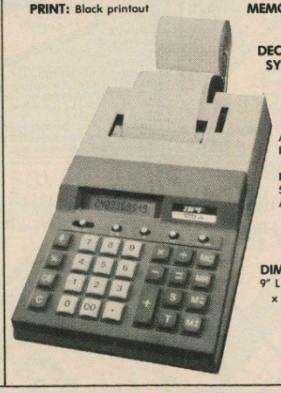
PUNCTUATION: Commas on display

PRINT: Black printout

MEMORY: Fully accumulating memory Memory indicator on display and tape

DECIMAL SYSTEM: A,0,1,2,3,4,F (floating)

SPECIAL FEATURES:
AC or DC operation
Percent key for add-on and discount calculations
Non-print mode
5/4 round off
Automatic and manual paper feed



DIMENSIONS:
9" L x 1¾" H x 5⅛" W

ACCESSORIES INCLUDED:
Standard paper tape
Instruction book

Retail:$119.95

SUPER SPECIAL from OLYMPIC SALES limited quantity and limited offer. All brand new in original cartons and warranteed by APF Corp. Item No APM250 Shpg Wt:14 lbs BELOW our COST!

M250 APF 12 Digit Thermal Printer, four functions w/grand total, MEMORY, repeat on add & subtract add mode switch, fixed & floating decimal and many more. *RETAIL:$129.95 Your Cost:* **$39.50**

Model CY3412DP Heavy Duty 12 digit Printer Display Memory

Item No. SA3412PD

Retail:$249.95

Shpg Wt:15 lbs

FEATURES
- Dual-function calculator that both prints and displays all basic arithmetic calculations.
- Fast, quiet printer types up to 15 symbols per line (12 digits, 2 operation symbols and 1 decimal point).
- Bright green fluorescent display of 12 digits with overflow indication and minus and memory signs. Also power, error and memory indicator lights.
- Independently addressable memory with memory grand total, memory subtotal, memory minus equal and memory plus equal keys. 8-step buffer memory also provided.
- Fixed (2, 3, 4, 6)/floating (F) decimal point with add mode (ADD).
- Constant, round-off, sign change, non-print selector and grand total switches. Item counter also provided.
- Chain multiplication and division, repeat addition and subtraction, discount/add-on, accumulating, averaging, mixed, power and percent calculations.

Your Cost

$149.95

Dimensions
2¾"(H)×7⅞₆"(W)×10⅛"(D)
(70×185×268mm)
- Convenient plus equal and minus equal keys.
- Subtotal, group total and grand total functions.
- Negatives and error symbol are printed in red.

Power source
120V ±10% 50/60Hz

SANYO

FEATURES
- 12 column printer with display.
- Full 4-key memory.
- Accumulation switch.
- Percent key.
- Clear entry key.
- Clear key.
- Constant switch.
- 5/4 round-off.
- Item counter.
- Add mode.
- Floating decimal, plus fixed decimal at 0, 2, 4, 6 decimal positions.
- 2 color ribbon.
- Double zero key.
- Non-add/sub-total key.

Your Cost

$129.95

Retail:$189.95

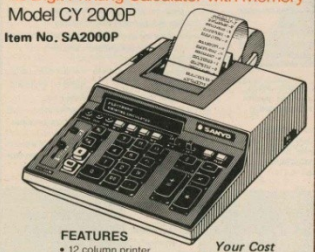
Item No. SA2000DP

Model CY 2000DP 12-Digit Printing Calculator with Display

Shpg Wt:14 lbs

12-Digit Printing Calculator with Memory Model CY 2000P

Item No. SA2000P



FEATURES
- 12 column printer.
- Full 4-key memory.
- Accumulation switch.
- Percent key.
- Clear entry key.
- Clear key.
- Constant switch.
- 5/4 round-off.
- Item counter.
- Add mode.
- Floating decimal, plus fixed decimal at 0, 2, 4, 6 decimal positions.
- 2 color ribbon.
- Power, error and memory lights.
- Double zero key.
- Non add/sub total key.

Your Cost

$109.95

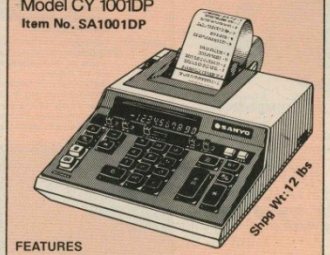
Retail:$169.95

SANYO

SPECIFICATIONS	Shpg Wt:13 lbs
Operating temperature	0° 40°C (32° 104°F)
Power source	120V ±10% 50/60Hz
Power consumption	20W (max.)
Dimensions	2¾"(H)×7⅞₆"(W)×10⅛"(D) (70×185×268mm)

10-Digit Printing Calculator with Display Model CY 1001DP

Item No. SA1001DP



Shpg Wt:12 lbs

FEATURES
- 10 column printer with display.
- Grand total key and switch.
- Percent key.
- Clear entry/clear key.
- Constant switch.
- 5/4 round-off.
- Add mode.
- Floating decimal, plus fixed decimal at 0, 2, 4, 6 decimal positions.
- 2 color ribbon.
- Non-add/sub-total key.
- Sign change key.
- Double zero key.

Your Cost

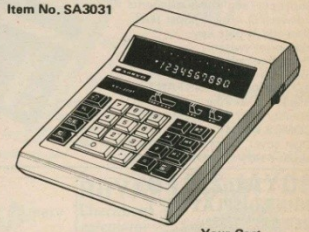
$109.95

Retail:$169.95

SPECIFICATIONS	
Operating temperature	0° 40°C (32° 104°F)
Power source	120V ±10% 50/60Hz
Power consumption	14W (max.)
Dimensions	2¾"(H)×7⅞₆"(W)×10⅛"(D) (70×185×268mm)

10-Digit Desk-Top Display Calculator Model CY 3031

Item No. SA3031



Your Cost

$59.95

Retail:$99.95

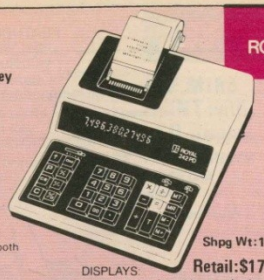
FEATURES
- 10 column digitron display.
- AC/DC operation.
- Built-in rechargeable Ni-Cd batteries.
- Full independent memory.
- Percent key.
- Clear entry key.
- Clear key.
- Constant switch.
- Add mode.
- Floating decimal, plus fixed decimal at 0, 2, 4 decimal positions.
- Sign change key.
- 5/4 round-off switch.

SANYO

SPECIFICATIONS	Shpg Wt:8 lbs
Operating temperature	0° 40°C (32° 104°F)
Power source	120V +10%, 50/60Hz
Power consumption	2W
Dimensions	2-1/8"(H) x 5-7/8"(W) x 9-1/8"(D) (54.5 x 150 x 241mm)

ROYAL 242PD
PRINT/DISPLAY
MEMORY/12 DIGIT
Punctuation-Gross Margin Key
2 Color Ribbon

Item No RY242PD



Your Cost
$139.95

Shpg Wt:14 lbs
Retail:$179.95

MEMORY:
Fully addressable 4-key memory
Memory-occupied indication on both printout and display
PUNCTUATION:
Comma separation on printout tape and Digitron display
ACCESSORIES INCLUDED:
Dust cover, removable power cord, paper tape, two-color ribbon, instruction book
CONSTANT:
Switch for constant in multiplication and division
PRINT: Black-red printout
DIMENSIONS: 11⅞" long x 9" wide x 3¼" hi
DISPLAYS:
12-digit printout tape and extra large (9mm high!), green 12-digit Digitron display
DECIMAL SYSTEM:
Input: Choice of floating decimal or add mode
Output: Decimal settings A, 0, 2, 4, 6, F (floating)
Special feature overrides the add mode when ×, ÷ are performed in the add mode setting

ROYAL 312 PD
PRINT/DISPLAY
MEMORY/12 DIGIT
Punctuation-Grand Total
Delta % Key-2 Color Ribbon

Item No RY312PD

Your Cost
$149.95

DIMENSIONS:
11-3/4" long x
7-3/4" wide
x 3-1/2" high

Shpg Wt:
12 lbs
Retail:$179.95

DECIMAL SYSTEM: Input: Choice of floating decimal or add mode
Output: Decimal settings 0, 2, 3, 6, F (floating)
Special feature overrides the add mode when ×, ÷ are performed in add mode setting
MEMORY: Fully addressable 4-key memory. Memory-occupied indication on both printout tape and display
GRAND TOTAL: Automatic accumulation of "totals" into memory via "Σ" switch
CONSTANT: Switch for constant in multiplication and division
SPECIAL FEATURES:
Percent key performs percent calculations, short-cut add-ons and discounts
Delta percent key permits short-cut mark-up from cost
Item Count: 3-way switch for "off", "+", (counts all entries), and "+/−" (nets out minus entries)
Non-add key — Print key
Change sign key — Repeat calculations
Fast paper feed — Buffered keyboard
Non-print switch saves paper tape
Overflow indication on both printout tape and display
ACCESSORIES INCLUDED:
Dust cover, removable power cord, paper tape, two-color ribbon, instruction book
PRINT: Black-red printout
DISPLAYS:
12-digit printout tape and extra large (8mm high!), green 12-digit Digitron display
PUNCTUATION:
Comma separation on tape and Digitron display

ROYAL 320 PD
PRINT/DISPLAY
Punctuation-2 Independent
Registers-2 Color Ribbon

Item No RY320PD

DISPLAY:
10-digit printout tape & digitron display
PUNCTUATION:
Comma separation on tape & digitron display
MEMORY:
Fully addressable 4-key memory;memory occupied indication on both tape & display
2 WORKING REGISTERS
Retail:$129.95

Your Cost
$119.95

Shpg Wt:14 lbs

FEATURES:
Percent key
Short cut, add-ons & discounts
Forward & reverse paper feed
Non-add & date key
Non-print switch
Repeat calculations(auto entry)
Buffered keyboard
AUTOMATIC CONSTANT
Black/Red printer
Standard 2 1/4" tape
COMES WITH:
Dust cover, black/red ribbon, paper tape, paper holders, instruction book.

DIMENSIONS:
11 ¾" × 7 ¾" × 3"

ROYAL 133 TD *"Thermal"*
PRINT/DISPLAY 12 DIGIT
THREE MEMORIES
Punctuation
2 Item Counters

Item No RY133TD

Your Cost
$99.95

Shpg Wt:
12 lbs
Retail:
$129.95

DECIMAL SYSTEM: Input: Choice of floating decimal or add mode
Output: Decimal setting 0, 2, 3, 4, 5, 6, F (floating)
Special features overrides the add mode when ×, ÷ are performed in add mode setting.
MEMORY 1: The independent add register enables the user to add and subtract using standard business machine sequence and multiply and divide without affecting add/subtraction entries.
MEMORY 2: Fully addressable 4-key memory by using both the four function memory and the add register, the operator can keep running subtotals of multipliers while simultaneously summing products.
MEMORY 3: Full independent memory or when set to ACC (automatic accumulation) all register results are automatically accumulated in the M∑ memory.
CONSTANT: The first entry in multiplication and last entry in division may be used as constants.
PRINT HEAD: Quiet, 12 digit thermal printer. Since no ribbon is required, the gradual fading associated with ribbon wear-out is eliminated.
SPECIAL FEATURES:
Percent key performs percent calculations, short-cut add-ons and discounts.
Two independent item counters
1. One for addition and subtraction entries
2. One for multiplication and division entries
Non-add key/print key — Repeat calculations
Change sign key — Buffered keyboard
Paper release lever — Auto Entry
Non-print switch saves paper tape
Overflow indication on both printout tape and display
Round off - Set to: 0 - To not round off
5 - Round up after 5 or more
9 - Always round up

ROYAL 210 PD
PRINT/DISPLAY
MEMORY
Punctuation-Display

Item No RY210PD

Your Cost
$99.95

Shpg Wt:12 lbs
Retail:$129.95

Displays: 10 digit printout tape & 10 digit Digitron display
Punctuation: Comma sep. on Digitron display
Decimal: Floating/Fixed Decimal points
System: Decimal point positions 0, 2, 3, 4, F & add mode
Memory: Fully addressable 4-key memory • Memory-occupied ind. on both printout tape & display
Special Features: % key performs percent calc, short-cut add-ons & disc. • Forward-reverse paper feed • Non-print switch saves paper tape • Repeat calculations • Buffered keyboard • Overflow ind. on both printout tape & display • Item count: 2-way switch for off & addition of all entries
Rounding: Preselection for cut-off & 5/4 rounding
Constant: Automatic constant (X, ÷)
Printhead: Seiko ink roll printer • 2.5 lines per second • Clean & easy to change ink roll cartridge
Accessories: Dust cover, ink roll cartridge, paper tape, instruction book

Dimensions: Length: 9¼" Width: 6¾" Height: 2¼"

ROYAL 110 PD
PRINT/DISPLAY
Memory-Punctuation Display
Two Registers

Item No RY110PD

Your Cost
$84.95

Shpg Wt:9 lbs
Retail:$99.95

DISPLAYS:
10-digit printout tape and 10-digit Digitron display
CONSTANT:
Automatic constant (×, ÷)
PUNCTUATION:
Comma separation on Digitron display
DECIMAL SYSTEM:
Fixed and floating decimal selection
Decimal points positions 0, 2, 3, F, and Add Mode
Special feature overrides the add mode when multiplication and division are performed in the add mode setting.
SPECIAL FEATURES:
Live percent key performs percent calculation, short-cut add-ons/discounts
Forward and reverse paper feed
Non-add (invoice) and date key
Non-print switch saves paper tape
Repeat calculations (Auto Entry)
Buffered keyboard
Slide switch protector. Prevents foreign objects from falling into calculator
Item count built in for automatic total of number of entries
Chrome paper holder built in with paper retainer clip
MEMORY:
Fully addressable 4-key memory
Memory occupied indication on both printout tape and display
WORKING REGISTER:
Two independent registers
1. Adding machine register
2. Calculator register
DIMENSIONS: 9¼" x 6" x 2¼"

PRINT/DISPLAY MEMORY-2 REGISTERS AC/DC Rechargeable Batteries & Charger

ROYAL 5HPD

Item No RY5HPD

Your Cost
$67.95

Shpg Wt:7 lbs
Retail:$89.95

Handheld 10-digit printing calculator with Digitron display

DIMENSIONS:
8¾" x 3" x 1¾"
DISPLAYS:
10-digit printout tape and 10-digit Digitron display
DECIMAL SYSTEM:
Floating and fixed decimal selection.
Decimal points positions 2, F, and Add Mode
Special feature overrides the add mode when multiplication and division are performed in the add mode setting
MEMORY:
Fully addressable 4-key memory
Memory occupied indication on both printout tape and display
WORKING REGISTER:
Two independent registers:
1. Adding machine register
2. Calculator register
CONSTANT: Automatic constant (x, ÷)
ROUNDING: Preselected for ¾ rounding
PAPER: Bond cash register tape (38MM or 1½" wide)

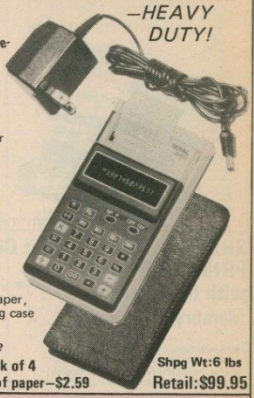
ACCESSORIES:
Leatherette slide-in carrying case
Ink roll cartridge
Three rolls paper tape — Recharger
Rechargeable batteries — Instruction book

ROYAL 3HPD PRINT/DISPLAY

12 DIGIT SHIRT POCKET PRINTER–

FULL MEMORY Live % Key-Add Mode-Floating Decimal-and and many features

VERY SMALL —HEAVY DUTY!



Shirt pocket mini-printing calculator with 12-digit display. Full memory, live percent key, add mode, and floating decimal setting, print & non-print switch. Uses 38mm thermal paper. Operates on internal NiCad batteries.

Item No RY3HPD

Your Cost
$67.95

Batteries, Recharger, 3 rolls of paper, and carrying case included.

AC/DC Operates on rechargable NiCad batteries
"Thermal" Printer

Pack of 4 rolls of paper–$2.59

Shpg Wt:6 lbs
Retail:$99.95

ROYAL 10HPD
PRINT/DISPLAY
MEMORY
Gross Margin Key
Rechargeable NiCad
Batteries & Charger Included

Item No RY10HPD

Your Cost
$79.95

Hand Held 10 Digit

Shpg Wt:8 lbs
Retail:$119.95

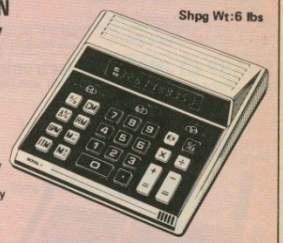
Display: 10-digit printout tape and 10-digit Digitron display
Punctuation: Comma separation on Digitron display
Decimal system: Floating & fixed decimal point • Decimal point positions 0, 2, F & add mode
Memory: Fully addressable 4-key memory • Memory-occupied ind. on both printout & display
Special Features: % key performs percent calculations, short- cut add-ons and discounts • Gross margin key permits short-cut mark-up from cost • Automatic item count • Forward reverse paper feed
Features: Non-print switch saves paper tape • Repeat calculations • Buffered keyboard • Overflow ind. on both printout tape & display
Rounding: Preselection for cut-off and 5/4 rounding
Constant: Automatic constant (x, ÷)
Print: Black printout
Printhead: Seiko ink roll printer • 2 lines per second • Clean and easy to change ink roll cartridge
Accessories included: NI-Cad batt, AC adaptor/charger, carrying case, ink roll cartridge, paper tape, inst. book
Dimensions: Length: 9" Width: 4" Height: 2"

ROYAL D330

Item No RYD330

DESK TOP DIGITRON
Punctuation-Full Memory
AC/DC Adaptor Included
GPM Calculations

Shpg Wt:6 lbs



Your Cost
$34.95

Retail:$49.95

DISPLAY:
10 digits, Digitron
PUNCTUATION:
Comma separation on Digitron display
MEMORY:
One independent addressable memory
– Plus and minus entries
– Memory recall without clearing
– Memory grand total
– Memory occupied indication
FEATURES:
Percent function
Automatic add-on/discounts
Item counter
Δ% calculations
GPM calculations
Overflow indication
Exchange key
POWER SUPPLY: DC, AC adapter included
DIMENSIONS: 6-1/2" x 5-3/4" x 2"

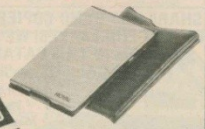
DECIMAL SYSTEM:
Preselection switch for full floating or two decimal places

CONSTANT:
Constant switch for multiplication and division

ROYAL SOLAR MINI
Compact style LCD
Calculator w/direct solar energy systems. Memory

POWER SUPPLY:
Solar cells provide direct power supply.
Operates on 200 lumins of daylight, incandescent light or fluorescent light.
DISPLAY: Liquid crystal with 8-digit overflow indicator and memory in-use indication
SHUT OFF: Automatic shut-off after 12 minutes of non-use, extends life of liquid crystal display
FEATURES: Live percent key performs short-cut add-ons/discounts
Square root
Sign change key
MEMORY:
Fully addressable memory with:
Memory Plus
Memory Minus
Memory Recall
Memory Clear
DECIMAL SYSTEM:
Floating system
DIMENSIONS:
102mm x 60mm x 6mm (L x W x H)
4" x 2⅜" x ¼"
COLOR:
Brushed gold case, brown keyboard
CARRYING CASE:
Leatherette slide-in case included

Your Cost
$29.95



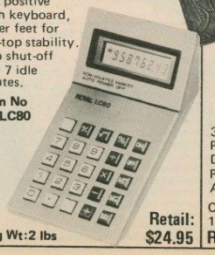
Shpg Wt:2 lbs

Retail:$39.95 Item No RYSM

ROYAL LC80
With NON-VOLATILE Memory
retains memory when "OFF"
operates on 2 AA Batteries
LCD – 8 DIGIT

Fully addressable memory
Plus, Minus & Recall/Clear
Live % key, square root, positive touch keyboard, rubber feet for desk-top stability. Auto shut-off after 7 idle minutes.

Your Cost
$17.95



Item No RYLC80

Shpg Wt:2 lbs
Retail:
$24.95

ROYAL LCB 841
Checkbook calculator

Three Locking Memories
% – Add Mode
Brushed Goldtone Finish

Your Cost
$29.95

Shpg Wt:3 lbs

3 LOCKING MEMORIES
Percent & add mode switch
Double injected keys
Protected on-off switch
AM key to match AM display
CHECKBOOK CALCULATOR
152 MM X 65 MM
Retail:$39.95 Item No RYLCB841

SHARP EL-1071S Compact Fast-action Printer

Your Cost **$66.95**

Item No SHEL1071

- 10-digit printing calculator with 4-key independent memory.
- One-touch percent key.
- Non-add/sub-total key for printing dates, codes, etc., on roll paper.
- Fixed/floating decimal with add mode (A) selector.
- Performs add-on/discount calculations.
- Includes dust cover and roll paper.

Shgp Wt:11 lbs

EL-1182 Desk-Top PRINTER/DISPLAY

Item No SHEL1182

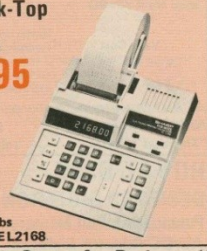
- Clear, easy-to-read print-out of 10 numerals and 2 symbols on standard roll paper.
- 10-digit bright green fluorescent display.
- Independently accessible 4-key memory.
- One-touch percent key.
- Large plus/equal key for speedy operation.
- Timesaving double zero key.
- Add (A) mode especially useful for monetary calculations.
- Constant (K) mode to speed up calculations.
- Print/non-print selector.
- Change sign key.
- Overflow error check device.

Your Cost **$86.95**

Shpg Wt: 10 lbs

SHARP EL-2168 12-Digit Desk-Top PRINTER/DISPLAY with Independent Memory

Your Cost **$104.95**



- Independently accessible memory with memory plus and memory minus keys.
- Fast, clear print-out of up to 12 digits by standard paper printer.
- Big, easy-to-read 12-digit green fluorescent display.
- Percent; constant (K), floating (F)/fixed decimal (3, 2, 0), add mode (A), and item counter.
- Slim, compact unit measures just 2"(H) x 7 5/16"(W) x 8 15/16" (D).
- Includes dust cover and paper roll.

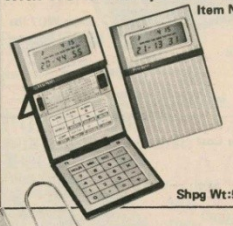
Shpg Wt:10 lbs

Item No SHEL2168

SHARP CT-510E Dual Display Clock/Calculator with World-Time, Alarm & Calendar

Item No SHCT501E

Your Cost **$79.95**



- Dual liquid crystal displays show time and calculations simultaneously.
- World-time system shows correct time in major cities.
- Up to 3 alarm settings and timer functions.
- Calendar indicates date, day and month.
- Independent memory and Storage Computer™
- Percent key.
- Metal compact-styled case closes to just 1/2"(H) x 2 7/16"(W) x 3 17/32"(D).
- Complete with pouch and batteries.

Shpg Wt:5 lbs

SHARP CT-600 LCD Electronic Center for Desk

clock, calendar, stopwatch and calendar with two memories.

Your Cost **$59.95**

Shpg Wt:6 lbs

- Designer-styled woodgrain plastic and brushed metal unit with sliding cover for key panel.
- The right time for any time zone in the world.
- Independent 3-key memory, plus recall memory, both include Memory Safe-Guard™
- Calendar provides year, month, day and date.
- Clock functions, 12 - hr. AM/PM or 24 - hr. display. Shows hours, minutes and seconds.
- Stopwatch times in minutes and seconds.
- Sensor Touch™ entry panel.
- 8-digit liquid crystal display.
- Percent and square root keys.
- Complete with batteries.

Item No SHCT600

EL-8061E Miniature "Hang-A-Round" Calculator

has built-in timepiece with alarm.

Your Cost **$33.95**

- Tiny 8-digit liquid crystal display pocket calculator with built-in hour/minute/second clock.
- Calendar shows date and day of week.
- Alarm sounds for appointments, meetings, etc.
- Symbols include minus, error, set mode, A (AM), P (PM) and alarm indicators.
- Percent key for add-on/discount calculations.
- Includes vest-pocket watch chain and batteries.

Shpg Wt:3 lbs

Item No SHEL8061

Clock Calculators

EL-405 3-key independent memory hand-held calculator with built-in electronic alarm clock.

Your Cost **$19.95**

- 8-digit Liquid Crystal Display.
- Built-in 12-hour cycle clock shows hour/minutes/seconds.
- Performs add-on/discount calculations.
- One-touch percent key.
- Zero second adjustment.
- Includes batteries.

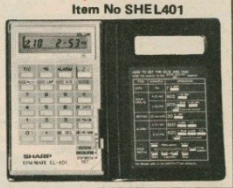
Shpg Wt:3 lbs

Item No SHEL405

EL-401 Electronic quartz clock with stopwatch & alarm also compact calculator.

Your Cost **$24.95**

Item No SHEL401



- 8-digit calculator with liquid crystal display.
- 3-key independent memory.
- 12-hour cycle clock with hour/minute/second indications.
- Alarm can be set with musical tone.
- Independent audible tone can be used to indicate entry of data.
- Performs add-on/discount calculations.
- One-touch percent key.
- Includes batteries.

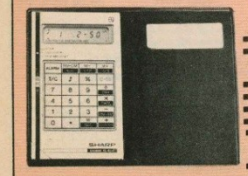
Shpg Wt:3 lbs

EL-8162 Slim calculator combined with liquid crystal watch.

Shpg Wt:3 lbs

Your Cost **$33.95**

Item No SHEL8162



- 8-digit liquid crystal display.
- Built-in clock has date/hour/minute/second, alarm, calendar, and stop watch (with lap time) functions.
- Audible "input check" tone.
- One-touch percent key.
- Three-key independent memory system.
- Constant/reciprocal calculations.
- Symbols include minus, error, memory, AM/PM, audible input check, alarm, STP/LAP, battery indicators.
- Includes wallet case and batteries.

SHARP DRY BOND COPIERS—LATEST MODELS—BELIEVE IT OR NOT PRICES! YES! WE'VE GOT THEM—BUT WE'RE OUT OF ROOM IN THIS CATALOG—SO IF YOU'RE INTERESTED—PLEASE CALL US, we'll be glad to answer your questions!

FAMOUS **Model SF-811 High Performance Copier**
Retail:$5495.99 *Your Cost:*$3999.95

Model 820 Reduction Unit (Reduction Capability)
Retail:$7495.00 *Your Cost:*$5395.00

Model 740 Reliable LOW COST Copier
Retail:$2995.00 *Your Cost:*$2395.00

Model 850—High Speed Desk Copier
Retail:$6495.00 *Your Cost:*$4595.00

Model 460—Document Feeder (Opt'l on 800 series)
Retail:$1500.00 *Your Cost:*$4595.00

Model 450—Collator Retail:$3595.00

Call for information about The Sharp Copiers, Copier Supplies, and Copier Service—goods subject to availability. *Your Cost:*$3195.00

SHARP EL-5100 The calculator that writes an equasion & remembers it!

Item No SHEL5100

Shpg Wt:5 lbs

Your Cost **$83.95**

- 24-digit, dot matrix alphanumeric rolling writer display.
- Memory Safe Guard™ circuit to protect data and programs.
- Automatic Power-Off (A.P.O.) function.
- Wide variety of scientific functions including trigonometric, inverse trigonometric, hyperbolic, arc hyperbolic exponential calculations, and statistics including linear regression.
- Playback functions/ TAB function.
- With a touch of the F↔E key, answers can be converted to a 10-digit mantissa and 2-digit exponent display.
- Includes attractive hard cover protective case, batteries, and instruction manual.

T2 Appl. text—$6.95

SHARP EL-5101 This Calculator writes equasions in the language of Science and remembers them too.

Your Cost **$67.95**

Shpg Wt:5 lbs

Item No SHEL5101

- Tabulation (TAB) key allows you to freely choose the decimal place, with round-off being automatic.
- Complete with an attractive hard cover protective case, batteries, and instruction manual.
- 16-digit, dot matrix, alphanumeric rolling writer display.
- Memory Safe-Guard™ protects formulas and data stored.
- Auto Power-Off (A.P.O.) function.
- 61 scientific functions include trigonometric, inverse trigonometric, hyperbolic, arc hyperbolic, and exponential calculations, plus time calculations, and statistics including linear regression.

T2 Appl. text—$6.95

SHARP PC-1201 Computer Power in a Handheld Calculator

non-volatile memory.

Your Cost **$57.95**

- Simplified programming of up to 128 fully merged steps with convenient 1-command/1-step system.
- 12 independent memories with Safe Guard™ protection.
- 4 types of conditional judgements ($x \neq 0$, $x<0$, $x = t$,$x<t$)
- Wide variety of scientific functions including cube and square roots, degree/minute/second transformation, rectangular/polar coordinates and statistical functions, etc. (37 kinds).
- Audible signal check in program calculation.
- Bright 10 digit mantissa/2-digit exponent display.
- Includes batteries, adaptor/charger, application manual and pouch.

Shpg Wt:3 lbs

Item No SHPC1201

SHARP EL-5102 Financial Calculator w/programmability

Your Cost **$76.95**

Item No SHEL5102

- 16-digit Dot-Matrix LCD.
- 6 data memories.
- 48-step programmability.
- Direct Formula Entry
- Business/financial functions: 1) Compound interest, 2) Amortization, 3) Discounted cash flow analysis, 4) Days calculation, 5) Statistics including Linear Regression/Linear Estimates.
- Includes handsome hard case, instruction/application manual, and batteries.

Shpg Wt:5 lbs

SHARP CT-451E Digital Clock

Compact, affordable — can travel with you!

Digital Clocks

Item No SHCT451E

$24.95

Your Cost

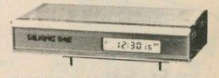
- Two alarms provide daily and weekly time settings.
- Day-of-the-week display.
- Digital readout of precise hour and minute, with "blinking dot" second indication.
- Includes battery providing up to one year of continuous operation.

SHPG WT 3 lbs

SHARP CT-660E "TALKING TIME"

Your Cost **$86.95**

Item No SHCT660E



- Non-stop read-out of hour/minutes, seconds, A.M. and P.M.
- Alarm setting and timer function up to 9 hours, 59 minutes, 59 seconds.
- Stopwatch displays standard/accumulated elapsed time measurement with lap time announcement in the preset interval.
- Easy-to-read LCD read-out plus (1) manual time announcement—hour and minutes, (2) automatic time announcement—every 30 minutes, (3) alarm with voice and melody, (4) snooze function 5 and 10 minutes after alarm, (5) timer with automatic elapsed time every 1, 5 or 30 minutes.

Shpg Wt:3 lbs

- Includes dry batteries and hand strap.

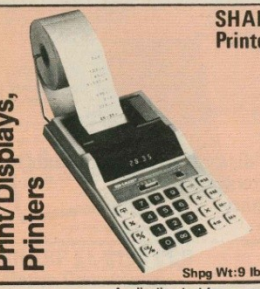
Digital Clock adds voice & melody to its alarm & follow-up times 5 & 10 minutes later.

Print/Displays, Printers

SHARP EL-1185 Handheld Printer/Display Calculator

Your Cost **$66.95**

Item No SHEL1185



- 10-digit print/display calculator.
- Print/non-print selector saves paper.
- Decimal selector with add mode (A).
- 4-key independently accessible memory.
- One-touch percent key.
- Constant/reciprocal.
- Add-on/discount calculations.
- Non-add/sub-total key.
- Complete with adaptor/charger, three rolls of paper, Ni-Cd rechargeable batteries, and dust cover.

Shpg Wt:9 lbs

SHARP EL-1169 Handheld PRINTER/DISPLAY

Your Cost **$86.95**

Item No SHEL1169

- Storage Computer™ holds number for tax calculation, conversion, etc.
- Memory Safe-Guard™
- Full print-out of 10 numerals and 2 symbols on standard roll paper.
- Easy-to-read, large liquid crystal display with automatic 3-digit punctuation.
- Independently accessible 4-key memory.
- Convenient MU key.
- One-touch percent key.
- Print/non-print mode.
- Fixed/floating decimal selector.
- Convenient add mode (A) and constant (K).
- Includes batteries.
- Complete with attractive soft case, and AC adaptor. Rechargeable battery pack (EA-25B) is optional.

Shpg Wt:9 lbs

EL-5100B1

$6.95

Application text for models EL-5100 & EL-5101.

- Written expressly for the world's first direct-formula entry scientific calculators, the EL-5100/5101.
- Demonstrates the computing power for scientific research, engineering design and advanced mathematical analysis.
- Shows actual keystroke sequences and illustrations of display readouts.
- Excellent for those actively involved in differential equations, numerical integration and linear system simulation.
- Text shows how to derive difference tables, perform data analysis and statistical/probability calculations.
- Written by Jon M. Smith and published by John Wiley and Sons.

ACCESSORIES by SHARP

		Your Cost
SHEA12A	Adaptor for Model CT-610	$5.95
SHEA17	Adaptor/charger for Mods. EL-210, EL-8131, EL-5001, PC-1201	4.95
SHEA18B	Rechgble. batt. pack Mods. EL-210, EL-8131, EL-5001, PC-1201	5.95
SHEA22R	Electrostatic paper for print. calcs EL-1063, EL-1163	4.95
SHEA25B	Rechgble. battery pack Model EL-1169	9.95
SHEA720R	Ink roller for Mods. EL-1071, EL-1166/1182, EL-1168/1169, EL-2158, EL-2168	3.50
SHEA1185**	Paper rolls (5 per pack) for Printing calculator EL-1185	1.95
SHEA730R*	Ink roller for EL-1185	2.95
SHEA740R*	Ink roller for EL-1071S	2.95
SHEL5100	Application text for EL-5100/5101	6.95
SHIQ31F	French Language Module for IQ-3100	49.95
SHIQ31G	German Language Module for IQ-3100	49.95
SHIQ31S	Spanish Language Module for IQ-3100	49.95
SHEA800R*	Ink roller for EL-7000	2.95

*Minimum order of 5 rollers **Minimum order of 10 packs

SHARP EL-825 Credit-Card Size, with built-in Solar Cells

Shpg Wt:3 lbs

Your Cost

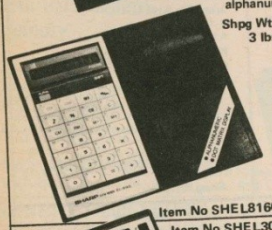
$21.95

Item No SHEL825

- Built-in solar cells in the wallet. Power is provided when you open the wallet, and is cut automatically when the wallet is closed.
- 8-digit liquid crystal display with low power consumption.
- Independently accessible 4-key memory.
- One touch percent key for fast add-on/discount calculations.

SHARP EL-8160 Ultra-Slim

It's more than a calculator- This high-styled, ultra-slim, alphanumeric calculator is also a memo pad with rolling writer display.



Shpg Wt: 3 lbs

Your Cost

$29.95

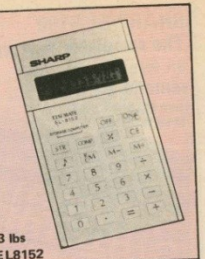
Item No SHEL8160

- Highly visible 8-digit dot matrix liquid crystal display. As you enter letters or numbers, the display rolls to the left for up to 24 characters.
- 4-key independently accessible memory and Storage Computer™ protects your entries even when the power is turned off.
- Memory Safe-Guard™.
- Sensor Touch™ entry panel has dual function keys: numbers and letters.
- Auto Power-Off (A.P.O.) functions for extended battery life.
- Vinyl wallet and battery included.

SHARP EL-8152A Super Thin Calculator (1/16") with Sensor Touch

Your Cost

$29.95



- Sensor Touch™ entry panel allows for the extra thinness.
- Storage Computer™ for metric, monetary and other conversion problems.
- Memory Safe-Guard™ circuitry to keep numbers in the memories whether the power is on or off.
- High visibility 8-digit liquid crystal display.
- Auto Power-Off (A.P.O.) function to prolong the life of the battery.
- Battery and felt pouch included.

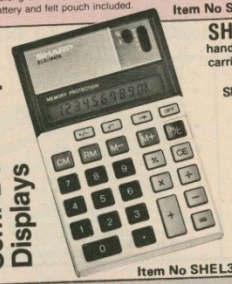
Shpg Wt:3 lbs

Item No SHEL8152

Semi Desk-Top Displays

SHARP EL-306 NEW SIZE

hand-held, desk top model that can be carried anywhere.



Your Cost

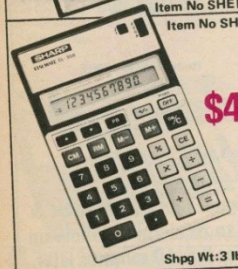
Shpg Wt:3 lbs

$34.95

Item No SHEL306

- 10-digit calculator with easy-to-read, large liquid crystal display.
- 4-key independent memory.
- Memory Safe-Guard™.
- Fixed/floating decimal with add mode (A).
- 5/4 rounding selector.
- Change sign key.
- Square root and one-touch percent keys.
- Automatic Power-Off function.
- Right shift key.
- Batteries provide up to 5,000 hours of operation.
- Includes soft case and batteries.

SHARP EL-308 Handheld/Desk-Top that remembers calculations & plays them back!



Item No SHEL308

$48.95 Your Cost

- 10-digit easy-to-read, large liquid crystal display.
- Up to 5,000 hours battery life in a slim, hand-held desk-top portable.
- Confirmation tone on playback.
- Fixed/floating decimal plus add mode (A).
- Memory Safe-Guard™.
- 4-key independently accessible memory.
- Percent and change sign keys.
- Performs add-on/discount calculations.
- Automatic Power-Off (A.P.O.).
- Includes soft case and batteries.

Shpg Wt:3 lbs

SHARP IQ-3100

Electronic Language Translator is fluent in 5 languages with vocabulary of approximately 2,000 words.

Specialty Calculators

Your Cost

$134.95

Item No SHIQ3100

- Puts years of language study into the palm of the hand with easy-to-read dot matrix LCD display.
- Translates 2,000 words and 152 sentences in five languages: English (module built-in) plus optional modules; German, Spanish, French, Japanese (Roman or Kana letters).
- Up to 2 language modules can be snapped into translator so multiple translation of English and 2 other languages occur simultaneously.
- 5 x 7 dot matrix LCD allows display of special characters.
- The most used 152 sentences in a traveler's conversation are preprogrammed into each module.
- Easy-to-search sentence and vocabulary system for quick reference.
- Battery operated.
- Comes with soft case, hand strap, batteries and instruction book.

Retail:$149.95

Shpg Wt:5 lbs

EL-6200 Alphanumeric Planning Computer with scheduling, memo, and clock functions as well as 10-digit calculator.

Retail:$99.95

Your Cost

$114.95

- Dual LCD display consists of 12-character dot-matrix rolling writer in lower section, and 9-digit upper section.
- Displays date (year/month/day), time (hours/minutes) plus memorandum, messages and appointments.
- Symbols provide identification of phone calls, meetings, etc.
- Programmable for a full year.
- Enter up to 27 characters and 9 numerals to store memos into memory.
- Daily or monthly schedule recalled at the touch of a key.
- 37 memories for scheduling plus 38 alarms.
- Pocket-sized with typewriter-like keyboard arrangement.
- Includes hard cover case and batteries.

Item No SHEL6200

Shpg Wt:6 lbs

SHARP EL-7000

The use-it-anywhere 10-digit calculator that prints out memos up to 48 characters & stores them into memory.

Your Cost

$89.95

Item No SHEL7000

- 4-key memory.
- One-touch percent key.
- Fixed/floating decimal (F-3-2-0) plus add mode.
- Non-print/print mode.
- Easily-read large liquid crystal display.
- Rounding selections (5/4 -).
- Typewriter-like keyboard enables printing of comment, memo up to 48 characters.
- Repeat print function.
- 8 word memories (7 characters + 10 numerals x 8) or (15 characters x 8) or (30 characters x 4).
- Automatic Power Off.
- Performs with rechargeable battery or AC adaptor/charger.
- Comes with Ni-cd. battery, AC adaptor/charger, soft case and 3 rolls of paper.

Retail:124.95

Shpg Wt:8 lbs

SHARP

ORDER TODAY!

TOLL-FREE OUTSIDE CALIF.

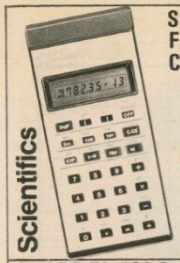
800-421-8045

FROM CALIF. & FOR INFORMATION

(213)-381-3911

Scientifics

SHARP EL-503 Full-featured LCD Scientific Calculator



Your Cost

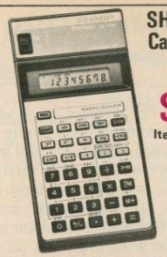
$16.95

Item No SHEL503

- 8-digits, scientific notation (5-digit mantissa/2-digit exponent).
- Trigonometric, inverse trigonometric, logarithmic and anti-logarithmic functions.
- 15 levels of parentheses.
- DEG, RAD, GRAD.
- Square root key.
- Independently accessible memory.
- 5,000 hour battery life.
- Algebraic operating system.
- 3/4" (H) x 2-5/8" (W) x 5-25/32" (D).
- Includes batteries, and instruction book.

Shpg Wt:3 lbs

SHARP EL-505 LCD Scientific Calculator with Statistics



Your Cost

$21.95

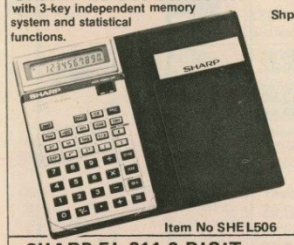
Item No SHEL505

- 8-digit LCD display.
- Scientific notation; 5-digit mantissa/2-digit exponent.
- 39 scientific functions including statistics ($n, \Sigma x, \Sigma x^2, \bar{x}, s, n!, y^x, nCr, nPr$).
- 3 levels of parentheses.
- DEG, RAD, GRAD.
- 5-key independently accessible memory.
- Polar coordinates, time and angle calculations (DEG, DMS, re, xy).
- Two "AA" batteries provide 5,000 hours battery life.
- Instruction book included.

Shpg Wt:3 lbs

SHARP EL-506 Scientific

with 3-key independent memory system and statistical functions.



Your Cost

Shpg Wt:3 lbs

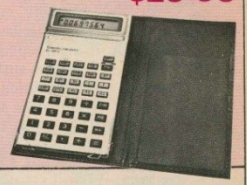
$24.95

Item No SHEL506

- 10-digit liquid crystal display.
- 3-key independent memory.
- One-touch percent and square root keys.
- Algebraic operating system.
- Automatic Power-Off (A.P.O.) prolongs battery life.
- Performs hyperbolics, polar coordinates, time conversions.
- 44 scientific functions including statistics ($n, \Sigma x, \Sigma x^2, \bar{x}, s, d, n!$).
- Constant (K) and reciprocal.
- 3 levels of parentheses/4 pending operations.
- 1000 hours of continuous operation.
- Includes wallet case, batteries and instruction book.

SHARP EL-5813

30-step programmable calculator with 9 statistical functions plus Safe-Guard™ memory



Your Cost

Item No SHEL5813

$29.95

- High visibility, 8-digit, scientific notation, 8-digit mantissa/2-digit exponent liquid crystal display.
- 30-step programming, 15 levels of parentheses, 6 pending operations, 1 (3-key) memory and 6 storage memories.
- Algebraic operating system.
- Program functions: LRN, COMP, LOOK &[x].
- 37 scientific functions: trigonometric, inverse trigonometric, logarithmic, DEG, RAD, GRAD and decimals to degrees, etc.
- Statistical functions: data, correct data, number of samples: Σx; mean: Σx, standard deviation and more.
- Auto Power-Off (A.P.O.).
- 500 hours of continuous operation.
- Vinyl wallet, batteries, and instruction book included.

Shpg Wt:3 lbs

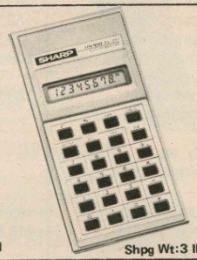
Basics

SHARP EL-211 8-DIGIT LCD Calculator

Your Cost

$10.95

features square root, percent keys plus independent memory.



- 8-digit calculator with liquid crystal display.
- Square root and one-touch percent keys.
- 3-key independent memory system.
- Automatic Power Off (A.P.O.).
- Constant/reciprocal.
- Add-on/discount calculations.
- Up to 10,000 hours of operation.
- Includes batteries.

Item No SHEL211

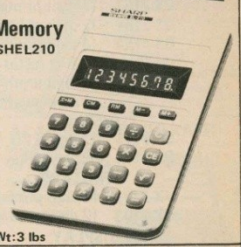
Shpg Wt:3 lbs

SHARP EL-210 8-DIGIT LCD Calculator w/5-key Memory

Your Cost

Item No SHEL210

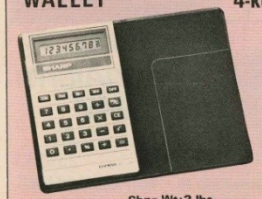
$11.95



- Independent memory with [CM], [RM], [M+], [M-], [x→M] keys.
- Easy-to-read, bright green 8-digit fluorescent display.
- One-touch percent key.
- Square root function.
- Includes batteries.
- Optional rechargeable Ni-Cd battery pack (EA-18B) and AC adaptor/charger (EA-17).

Shpg Wt:3 lbs

SHARP EL-304 WALLET



Shpg Wt:3 lbs

Calculator Thin design, with 4-key accessible memory

$14.95 Your Cost Item No SHEL304

- Auto Power-Off (A.P.O.) saves battery.
- 4-key accessible memory.
- Percent and square root keys.
- Low power-consuming, 8-digit liquid crystal display has high visibility.
- Independently accessible 4-key memory.
- Operates for approximately 1,000 hours on 2 alkaline manganese batteries.
- Approximate result in excess of 8 digits.
- Overflow error check device.
- Includes fitted vinyl wallet with note pad.

SHARP EL-8159 8-Digit

Your Cost

$15.95

Practical 8-digit Sensor Touch™ calculator with sleek design.

- Slim 4.5 mm (3/16") 8-digit LCD calculator with Sensor Touch™ keys.
- Audible input check mode emits a pleasant beep to confirm each entry. (Silent mode is also possible).
- Auto Power-Off function assures longer battery life because it turns calculator off after several minutes of non-use.
- Independently accessible 3-key memory.
- Double function key turns calculator on and also functions as clear key.
- Convenient one-touch percent key.
- Includes batteries and attractive wallet.

Item No SHEL8159

Shpg Wt:3 lbs

SHARP EL-8156 LCD Metric Conversions

Your Cost

$17.95

Item No SHEL8156

- 28 conversion functions, metric to US measure and US measure to metric.
- Full function calculator with memory plus percent and square root keys.
- Auto Power-Off (A.P.O.) function saves battery life.
- High visibility liquid crystal display.
- Vinyl wallet and batteries included.

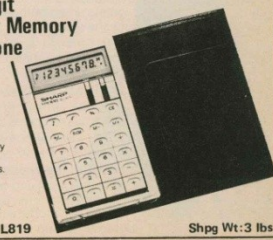
Shpg Wt:3 lbs

The calculator that puts you in touch with the world—You don't have to learn metric conversions. This calculator does it for you!

SHARP EL-819 8-Digit Calculator with 3-key Memory & Audible Musical Tone

Your Cost

$19.95



- 8-digit liquid crystal display.
- 3-key independent memory.
- Musical tone can be used to assure entry of information.
- Square root and one-touch percent keys.
- Constant (K) and reciprocal.
- Automatic Power-Off saves battery.
- Includes soft wallet case and batteries.
- Change sign key.

Item No SHEL819

Shpg Wt:3 lbs

SHARP CALCULATORS— BUSINESS CALCULATORS FOR HEAVY WORK

SHARP

MODEL	SPECIFICATIONS	RETAIL	WE SELL
	PRINTERS		
CS-1181	10 digit print/display, % key, memory, grand total, auto average	209.95	178.95
CS-2053	12 digit printer, % key, add mode, item counter, date key, grand total	179.95	154.95
CS-2062	12 digit print/display, grand total, % key, add mode, auto average	239.95	199.95
CS-2182	12 digit print/display, full memory, grand total, %, auto average	299.95	254.95
CS-4166	14 digit print/display, %, memory, grand total, cross footing %, proration, dist mode, auto factor accum. auto average, etc.	359.95	299.95
CS-4266	14 digit print/display, cross footing calculator up to 28 columns, % key, two full memories plus grand total, auto factor acc., auto average	399.95	339.95
	DISPLAY		
CS-1115	10 digit display, memory, %, grand total, add mode, item counter		82.95
CS-2109B	12 digit display, memory, %, add mode, item counter, constant		89.95
CS-2115	12 digit display, memory, add mode, %, item counter, constants		89.95
CS-2116	12 digit display with clock, with two alarm settings and calendar, memory, item counter, constants, add mode, percent key	149.95	127.95
CS-4101	14 digit display, memory, %, add mode, item counter, constants	149.95	127.95
CS-6301A	16 digit, sophisticated, with two direct access memories, verification system, auto. punctuation, grand total, crossfooting % proration, distribution mode, repeat display, auto first factor accumulation, automatic averaging, date key, multiple use key, %, etc.	199.95	169.95
	PRINTERS		
QS-1074	10 digit printer, grand total, % key, constant, add mode	129.95	112.95
QS-1157	Printer with 4-key memory and grand total, item counter, etc.	149.95	129.95
QS-2157	12 digit printer, 4-key memory, grand total, item counter, etc.	169.95	146.95
QS-2181	12 digit, 4-key memory, grand total, item counter, print/display	209.95	179.95
QS-4154	14 digit printer, 4-key memory, grand total, ind item counter, first factor accumulation, date key, automatic averaging, etc.	249.95	214.95
QS-4164	14 digit print/display, 4-key memory, grand total, first factor accumulation, auto averaging, date key, add mode, item counter, etc.	289.95	244.95
	DISPLAY		
QS-2111	12 digit LCD, memory, grand total, multiple use key, etc.		59.95
QS-1111	Display, 4-key memory, item counter, constant, multiple use key		68.95
	PRINTERS		
VX-2173	12 digit printer, memory, large keyboard, %, item counter, add mode	99.95	89.95
VX-2173	12 digit print/display, 4-key memory, large keyboard, %, etc.	119.95	107.95
	DISPLAY		
VX-1117	10 digit display, AC/DC, low profile, memory, full-sized keyboard		54.95
VX-1118	10 digit portable, 4-key memory, AC adapter inc. punctuation, etc.		51.95
VX-2118	12 digit portable desk-top memory, AC adaptor incl., item counter, etc.		54.95

SHARP

THE NEW NAVTRONIC 1701

Featuring Timer/Alarm and RNAV

4 new models designed by pilots, for pilots.

Navtronic 1701tr

The 1701tr features a built-in timer/alarm, and RNAV capabilities.

The built-in timer can be used to check "leg time" in the countup mode. And an exclusive warning alarm system functions during countdown—especially useful for non-precision landing approaches and fuel management.

The RNAV program allows you to find the distance and course between two way-points when both way-points are addressed by the same VOR.

1701t has a built-in Countup/Countdown timer and exclusive alarm system, so you can check "leg time" *and* approach time.

1701r has an RNAV program to tell you the distance and course between two way-points when you're flying off airways.

1701. Start with the 1701—add the timer/alarm and RNAV options later. This basic model in the Navtronic 1701 series is fully capable of solving all problems on the FAA instrument-written test.

Any 1701 model you choose may be later upgraded to add the timer/alarm, RNAV or both features.

Item No. NV1701	Item No. NV1701T
$89.00	**$175.00**
Retail:$99.50	Retail:$199.50
Item No. NV1701R	**Item No. NV1701TR**
$135.00	**$199.00**
Retail:$149.50	Retail:$229.50

Navtronic 1701 Series

Weight and Balance
Unknown Distance Shift
Unknown Weight Shift
Convert C.G. to Moment/100
Convert Moment/100 to C.G.
Est. Ground Speed and Heading
Time Enroute
Fuel Requirements
Endurance
Range
Density Altitude
Rate of Climb
Convert Ft./N.M. to Ft./Min.
Time to Climb

Standard Functions

Ground Speed
True Air Speed
Calibrated Air Speed
Unknown Wind Velocity & Direction
Fuel Consumption Rate
Distance Traveled
Distance to Descend
Fuel Consumed
Conversions
- Time
- Statute to Nautical
- Nautical to Statute
- F to C
- C to F

casio

CALCULATOR WATCH

Hour, minute, seconds, AM/PM, day Calendar Stopwatch Calculator Dual Time

CSC801 Black Resin **$49.95**

Call for Best Price!

CALCULATOR WATCH

Hr, min, sec, AM/PM, day Calendar, Stopwatch, Calculator, Dual Time

CS8011 black face Stainless steel coated $69.95

CALCULATOR WATCH

Hr, min, sec, AM/PM, Day, Calendar Stopwatch, Calculator, Dual Time.

CASIO

CSC8017 White face Stainless steel coated $69.95

12 MELODY ALARM— includes "Happy Birthday"!

CSM121 black
CSM122 blue
CSM127 ivory

Hr, min, sec, AM/PM, month, day, date, Daily alarm w/7 melodies a week; countdown alarm/stopwatch; Hourly time signal w/"Big Ben" tune!

Resin **$49.95**
Call for Best Price!

12 MELODY ALARM— includes "Happy Birthday"

CSM1200G Brown face w/goldtone bracelet—**$99.95**

Same features as M12 Model, except in stainless steel choose from the following color faces:

CSM12001 black face
CSM12002 blue face
CSM12007 silver face
Stainless steel $69.95

WATER SPORTS WATCH— tested to 300 feet

CSW1001 black
CSW1002 blue
CSW1005 yellow
CSW1008 gray

Resin — $39.95

Regular timekeeping plus 12/24 hr formats Stopwatch, Countdown alarm with repeat Daily Alarm Hourly/ ½ hourly time signals

Simultaneous time & date display, daily alarm, time signal, count-down alarm & stopwatch, continuous display of time, regardless of mode used. 300 ft tested

CSW150C1 black
CSW150C2 blue
Stainless steel CASE $54.95

CSW1501 black face
CSW1502 blue face
STAINLESS STEEL $59.95

"TIME SCAN"—

Display both Digital & Analog time

An Interesting Watch!

SIMULTANEOULSY!

Stopwatch, 12-24 hr change-over system,, countdown timer.

CS56CS50
1-black face,2-blue face Stainless Steel—$69.95

CS56CS52
2-blue face, 8-gray face Stainless steel—Roman Numeral—$89.95

CS56QS38
1-black face, 2-blue face 7-white face—Chrome plated case— $49.95

CASIO ALARM STOPWATCH

Regular timekeeping, plus Stopwatch, Daily alarm, Hourly time signal. Lightweight.

CASIO "SPORTS QUARTZ"
CSF80E1 black resin $29.95

STOPWATCH

Regular timekeeping plus Stopwatch function Lightweight

CASIO

CSF3001 black resin $24.95

DIGITAL SPORT WATCH

Lithium battery— lasts approx. 3 years

Hour, minute, second, AM/PM, Day & Date

CASIO
CSF7C1 black resin
CSF7C5 brown resin $19.95

ALARM/CHRONOGRAPH

Hour, min, sec, (or day), AM/PM, date; Stopwatch; Daily alarm; hourly time signal.

CASIO

CS83QS41
1-black face, 2-blue face Stainless steel coated $39.95

LADIES' DIGITAL ALARM

Hour, min,10-second 10-second signal, sec, AM/PM; Month, day, date. Daily alarm; Stainless steel

CSLA5501 black face
CSLA5502 blue face
Stainless steel — $49.95

LADIES' SPORTS WATCH

CASIO

Hour, min, 10-second symbol, second, AM/PM. Month, day, date. Stopwatch, Dual time; Lightweight.

CSL202B Light blue Chrome plated case—$34.95

PRECISA 1205 Dual Time CHRONOGRAPH

Your Cost

$17.95

NEW! PRECISA 1205
Men's chronograph with 2 time zones, 24-hour alarm and 24-hr chronograph. Displays hours, minutes, seconds, month, date, day of week, am/pm, alternate time zone, alarm and stopwatch.

Not CASIO, but identical to TI58411.

Black plastic case & matching strap.

Texas Instruments Digital Quartz Watches

LADIES 5 FUNCTION "LITE ERA" Deluxe
Elegant, finely detailed watches—combine dress watch styling with sports watch durability. Lightweight and compact; eye-catching lens graphics feature brilliant highlights and pin stripes. Constant backlight. Hours, minutes, seconds, month and date. Special "Lite Era" corrosion & scratch resistant case.

TI7414 Goldtone matching bracelet Your Cost:$36.95
TI7413 Silvertone matching bracelet Your Cost:$27.50

TI7412 Goldtone w/black plastic strap Your Cost:$27.50
TI7411 Silvertone w/black plastic strap Your Cost:$24.00

MEN'S QUARTZ CHRONOGRAPH
Shipping weight on each watch: 1 lb
2 hour chronograph with 1/100th second resolution, lap & elapsed times, incandescent backlight, time functions plus month, date, day of week.

TI80341 Goldtone matching bracelet Your Cost:$44.95
TI80331 Silvertone matching bracelet Your Cost:$37.50

MEN'S QUARTZ CHRONOGRAPH with ALARM
24 hr chronograph 24 hr alarm on/off display incandesct. backlight; adjustable bracelet.

TI80441 Goldtone matching bracelet Your Cost:$54.00
TI80431 Silvertone matching bracelet Your Cost:$46.00

MEN'S QUARTZ CHRONOGRAPH with ALARM
24 hr chronograph 24 hr alarm military time; constant backlight; month display; adjustable bracelet.

Expensive looking!
TI8012 Goldtone matching bracelet Your Cost:$99.95
TI8011 Silvertone matching bracelet Your Cost:$79.95

MEN'S QUARTZ CHRONOGRAPH with ALARM
12 hr chronograph 12 hr alarm dual time zone incandesc. backlight; adjustable bracelet.

Expensive looking!
TI80641 Goldtone matching bracelet Your Cost:$65.00
TI80631 Silvertone matching bracelet Your Cost:$55.00

MEN'S "LITE ERA" combines dress watch styling with sports watch durability
Innovative watch case plating process that resists scratching & corrosion. Comfortably lightweight. 5 functions; incandesc. backlight.

Shipping weight on each watch: 1 lb
TI55841 Goldtone matching bracelet Your Cost:$23.75
TI55831 Silvertone matching bracelet Your Cost:$19.00

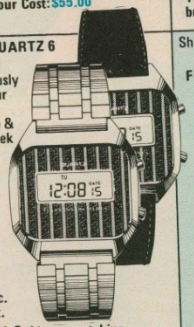
MEN'S "LITE ERA" combines dress watch styling with sports watch durability
Special "Lite Era" watch case-lightweight & scratch and corrosion resistant. hours, minutes, seconds, month, day, date. Incandesc. backlight.

TI55821 Goldtone w/brn plastic strap Your Cost:$19.00
TI55811 Silvertone w/blk plastic strap Your Cost:$18.00

MEN'S QUARTZ 6 Digit LCD
Continuous showing—your choice of time, day & date or time, seconds & day. Incandesc. backlight. Looks expensive!

TI44141 Goldtone matching bracelet Your Cost:$39.95
TI44131 Silvertone matching bracelet Your Cost:$29.95

MEN'S QUARTZ 6 Digit LCD
Continuously shows your choice of time, date & day of week or time, seconds and day.



Incandesc. backlight.
TI356A41 Goldtone matching bracelet Your Cost:$36.00
TI356A31 Silvertone matching bracelet Your Cost:$29.95
TI356A21 Goldtone w/blk plastic strap Your Cost:$29.95
TI356A11 Silvertone w/blk plastic strap Your Cost:$19.95

Shipping weight on each watch: 1 lb

FANTASTIC 808 SERIES

SO MUCH MORE THAN A WATCH — YOU'LL CALL IT A WRIST INSTRUMENT!

Precision timekeeping; constant, 11-function display. Two alarm settings; down-counter/timer—counts up or down from as long as 24 hours, then sounds the alarm. Chronograph counts up in hundredths of seconds or to read lap or elapsed times. Hourly chime. See time in alternate time zones.

Texas Instruments

TI80841 Goldtone matching bracelet Your Cost:$74.95
TI80831 Silvertone matching bracelet Your Cost:$66.95

Shipping weight on each watch: 1 lb

Texas Instruments Digital Quartz Watches

Shipping weight on each watch: 1 lb

MEN'S QUARTZ ALARM
8 functions w/incandescent backlight; matching metal bracelet.

TI36341 Goldtone
Retail: $50.00 Y/C:$42.50
TI36331 Silvertone
Retail: $40.00 Y/C:$33.95

LADIES QUARTZ ALARM
7 functions w/incandescent backlight; matching metal bracelet.

TI26241 Goldtone
Retail: $52.00 Y/C:$43.90
TI26231 Silvertone
Retail: $42.00 Y/C:$33.75

LADIES QUARTZ ALARM
8 functions w/incandescent backlight; matching metal bracelet.

TI26341 Goldtone
Retail: $55.00 Y/C:$46.75
TI26331 Silvertone
Retail: $45.00 Y/C:$38.75

LADIES SUPER THIN LCD
Hours—Minutes—Seconds Month & Date

Your Cost: $21.75

TI65610 Navy Plastic
TI65615 White Plastic

MEN'S LCD
Hours—Minutes—Seconds Month & Date

Black Plastic Case & Matching Strap
TI55510 Your Cost:$15.00

MEN'S JOGGER'S WATCH
WRIST WATCH/STOP WATCH 15 minute stopwatch w/auto. continuation and one second resolution

Black Plastic Case & Matching Strap
TI56210 Your Cost:$17.00

ALARM QUARTZ
LCD with 8 functions built-in 40 year calendar automatically compensates for leap year incandescent backlight.

Black Plastic Case & Matching Strap
TI57611 Your Cost:$27.00

ALARM—CHRONOGRAPH
DUAL TIME ZONE
24 Hr CHRONOGRAPH
24 Hr ALARM
Alternate Time Zone

Black Plastic Case & Matching Strap
TI58411 Your Cost:$33.00

CHRONOGRAPH — DTZ
with Fitness Kit
Can monitor sports activities up to 8 hrs with accuracy to 1/100 of a second. Inc. the "Aerobics Way" book

Black Plastic Case & Matching Strap
TI574FK Your Cost:$33.00

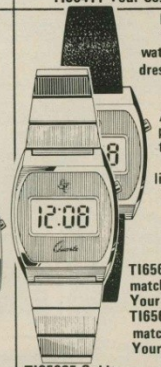
LADIES SUPER THIN
Elegant watches with close to the wrist styling—sleek & comfortable—5 functions-hours, minutes, seconds, month & date

TI25540 Goldtone Your Cost:$39.95
TI25530 Silvertone Your Cost:$32.95
Metal case with metal integrated bracelet.

LADIES SUPER THIN
Elegant watches with close to the wrist styling—sleek & comfortable—5 functions-hours, minutes, seconds, month & date

Metal case, plastic strap
TI25520 Goldtone/br. strap Your Cost:$32.95
TI25510 Silvertone/blk strap Your Cost:$27.95

LADIES NEW "LITE ERA"
watches combine dress styling with sports watch durability
A new plating process makes the innovative watch case lightweight yet resistant to scratching & corrosion.



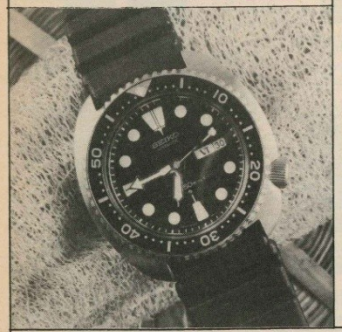
TI65640 Goldtone matching bracelet Your Cost:$33.00
TI65630 Silvertone matching bracelet Your Cost:$27.50
TI65625 Goldtone case w/ blue plastic strap Y/C:$27.50
TI65620 Silvertone case w/ black plastic strap Y/C:$24.00

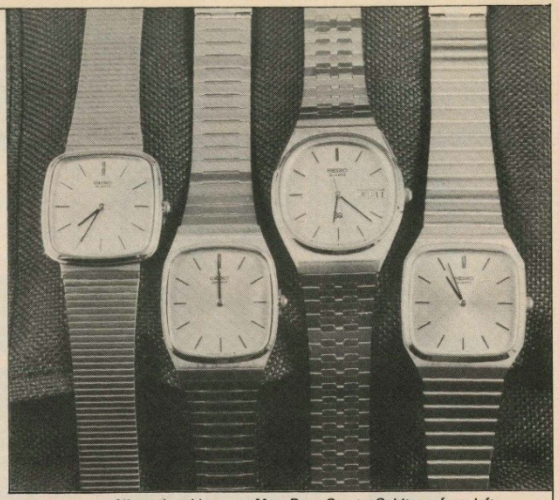
ORDER TODAY!
TOLL-FREE OUTSIDE CALIF.
800-421-8045
FROM CALIF. & FOR INFORMATION
(213)-381-3911
Shpg Wt: 1 lb per watch

SEIKO

MEN'S DIVER– MECHANICAL

SEMDE091 Mens StST diving watch, to 500'
Ret: $185.00 Your Cost: $147.95





MEN'S ANALOG WATCHES

All watches this group: Mens Dress Quartz, Goldtone, from left:

		Ret:	Your Cost:
SE5520G	Ultra Thin	$395.00	$319.95
SE5510G	Ultra Thin	375.00	299.95
SE5170G	Day-Date	335.00	269.95
SE5490G		375.00	299.95

MEN'S DIGITAL WATCHES

All watches this group: Mens alarm, from left:

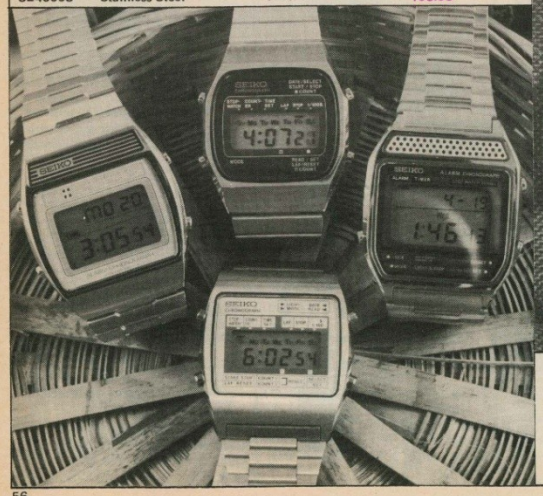
		Ret:	Your Cost:
SEMGW012	Dig. Calculator, Goldtone	$275.00	$219.95
SEGC007	Chronograph w/timer StSt	235.00	187.95
SEMGZ002	Timer	270.00	219.95

MEN'S DIGITAL WATCHES

Shpg Wt: 1 lb per watch

All watches this group: Mens chronograph,, Goldtone unless noted: CW from left

		Ret:	Your Cost:
SEMHC006	Alarm With Timer	$220.00	$179.95
SE5010G		240.00	189.95
SEMGC014	Alarm With Timer	220.00	175.95
SE4000S	Stainless Steel	130.00	105.95



SEIKO

All watches this group: Thin Dress Quartz Mens, Goldtone, from left:

		Ret:	Your Cost:
SEMFG006	Leather Band	$225.00	$203.95
SEMFV032		315.00	251.95
SEMFS014		250.00	199.95

MEN'S ANALOG WATCHES

Mens Watches as described, center then clock-wise from top right:

		Ret:	Your Cost:
SEDHX021	Dual Chrono,St.Steel	$180.00	$143.95
SEFY018	'Rolex Type', STST + Goldtone	230.00	183.95
SEMGF002	Digital Alarm Goldtone	180.00	143.95
SEMFY093	'Sports 100' 300.' STST	205.00	163.95
SEMGB006	Multi-Ling, Goldtone	295.00	235.95

MEN'S ANALOG & DIGITAL

SEIKO

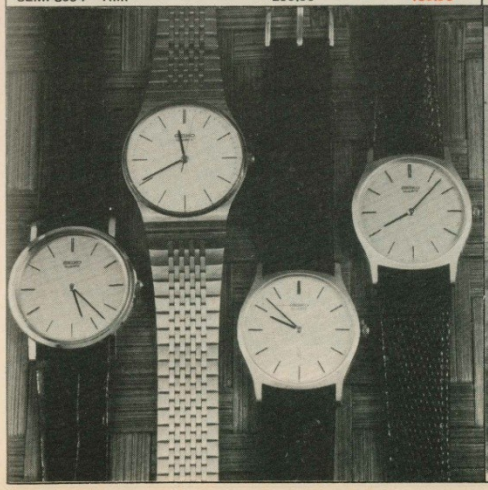
WE WILL BEAT ANY PRICE

Shpg Wt: 1 lb per watch

MEN'S ANALOG WATCHES

All watches this group: Mens Dress Quartz, unless noted, from left:

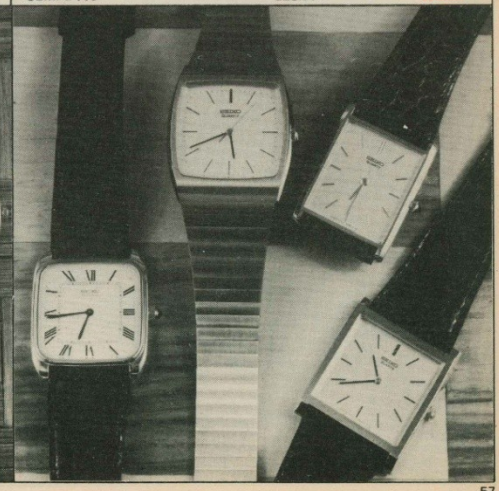
		Ret:	Your Cost:
SEMGQ014	Ultra thin	$300.00	$239.95
SE8059S	Stainless Steel	225.00	179.95
SE0170GL	Super thin W/ Leather band	225.00	179.95
SEMFS094	Thin	200.00	159.95



MEN'S ANALOG WATCHES

All watches this group: Thin Dress Quartz, Goldtone unless noted, from left

		Ret:	Your Cost:
SEMFD194		$200.00	$159.95
SE5179S	Ultra Thin St. Steel	240.00	189.95
SEMGQ018	Ultra Thin	315.00	251.95
SEMFD110		225.00	179.95



Shpg Wt: 1 lb per watch

MEN'S ANALOG WATCHES

All watches this group: Mens Dress Quartz, Goldtone, from left:

		Ret:	Your Cost:
SEMFV020	Thin Day-Date	$295.00	$235.95
SEMFV012	Thin Day-Date	230.00	183.95
SEMFE030	Thin	315.00	251.95

MEN'S ANALOG WATCHES

All watches this group: Mens Dress Quartz, Goldtone, from left:

		Ret:	Your Cost:
SEMGQ016	Ultra Thin	$300.00	$239.95
SE5380GL	Ultra thin Leather band	240.00	189.95
SE5500GR	Leather band	250.00	199.95
SE7090GL	Ultra Thin, Leather Band	240.00	189.95

WE WILL BEAT ANY PRICE

SEIKO

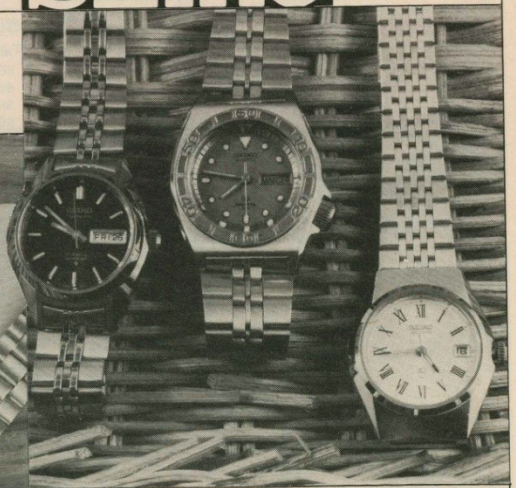
ORDER TODAY !

MEN'S SPORTS QUARTZ

Shpg Wt: 1 lb per watch

All watches in this group: Mens Quartz 'Sports 100' Waterproof to 300' Stainless Steel,

		Ret:	Your Cost:
SEFY89	Black Face	$205.00	$163.95
SEFY097	Black Face	205.00	163.95
SEFJ81	Silver Face	205.00	163.95



LADIES MECHANICAL & ANALOG

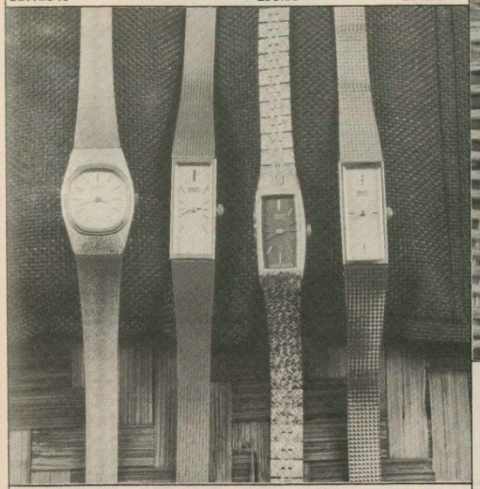
All watches this group: Ladies as described, from left:

		Ret:	Your Cost:
SELYP175	Auto-Day-Date, StST	$105.00	$83.95
SELYD068	'Sports 100', 300', QTZ STST + Goldtone	$250.00	$199.95
SELYE006	Quartz, Goldtone	210.00	167.95

LADIES' ANALOG WATCHES

All watches in this group: Ladies thin dress quartz goldtone, from left:

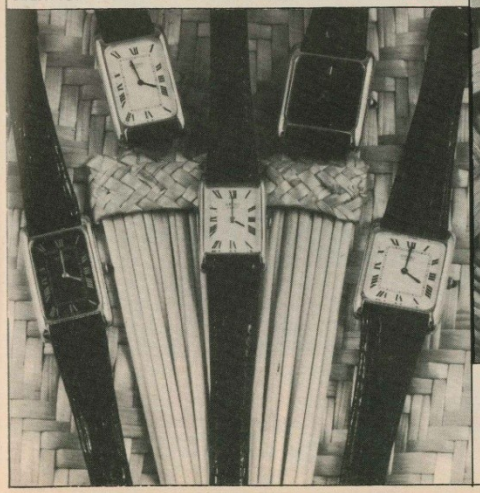
	Ret:	Your Cost:
SELXT058	$225.00	$179.95
SEXQ044	275.00	219.95
SEXQ064	250.00	199.95
SEXQ046	295.00	234.95

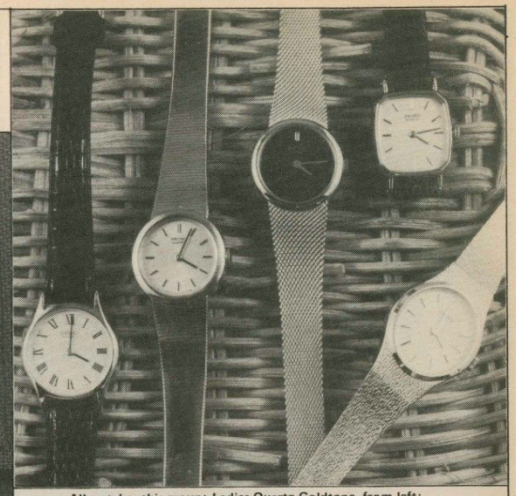


SEIKO

All watches this group: Ladies Quartz, Goldtone, from left:

	Ret:	Your Cost:
SELXT208	$200.00	$159.95
SELXT206	200.00	159.95
SELXT200	200.00	159.95
SE5640GL	225.00	179.95
SELXT184	195.00	154.95





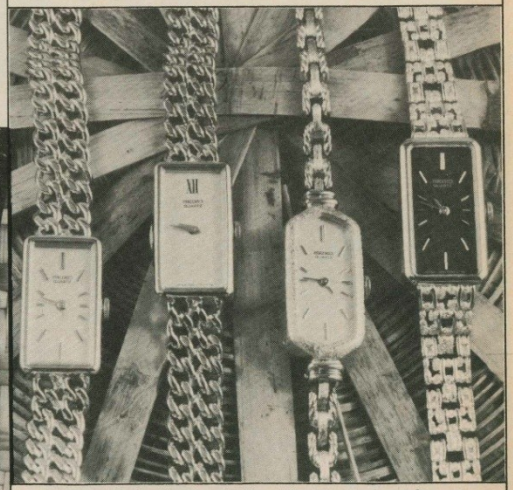
Shpg Wt: 1 lb per watch

All watches this group: Ladies Quartz Goldtone, from left:

		Ret:	Your Cost:
SE0170GR		$200.00	$159.95
SE0460G		335.00	269.95
SEXT312		390.00	309.95
SELUX248		160.00	129.95
SE5210W	Wht Goldtone	225.00	179.95

LADIES' ANALOG WATCHES

WE WILL BEAT ANY PRICE



All watches in this group: Ladies goldtone quartz, from left:

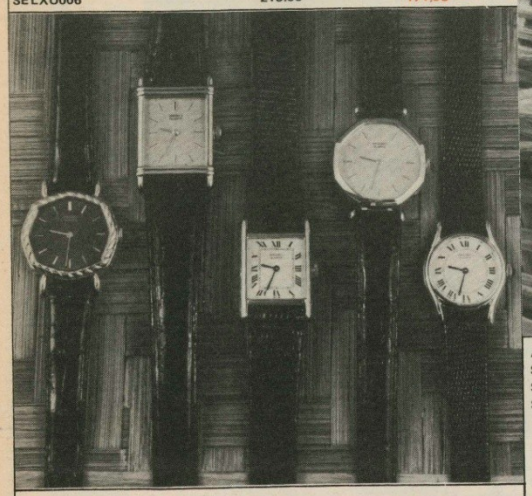
		Ret:	Your Cost:
SEXQ060	Thin Dress	$395.00	$319.95
SEXQ058	Thin Dress	395.00	319.95
SE5260G		295.00	229.95
SEXQ068	Thin Dress	285.00	229.95

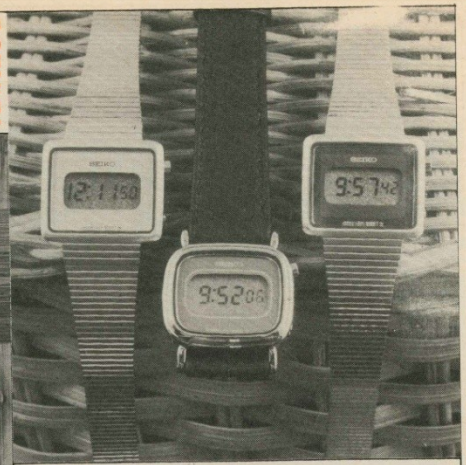
LADIES' ANALOG WATCHES

All watches this group: Ladies Quartz, Goldtone, from left:

		Ret:	Your Cost:
SELXU244		$220.00	$175.95
SELXU230	Thin Dress	210.00	167.95
SELXU014	Tank Type Romn Num	220.00	175.95
SELXU013	same pix, wht goldtone	220.00	175.95
SELXU224		220.00	175.95
SELXU006		215.00	171.95

LADIES' ANALOG





All watches this group: Ladies Quartz, Day-Date, Goldtone, from left

		Ret:	Your Cost:
SELYC006		$170.00	$136.95
SELYC010		110.00	88.95
SELYC008		170.00	136.95

LADIES' DIGITAL QUARTZ

SEIKO

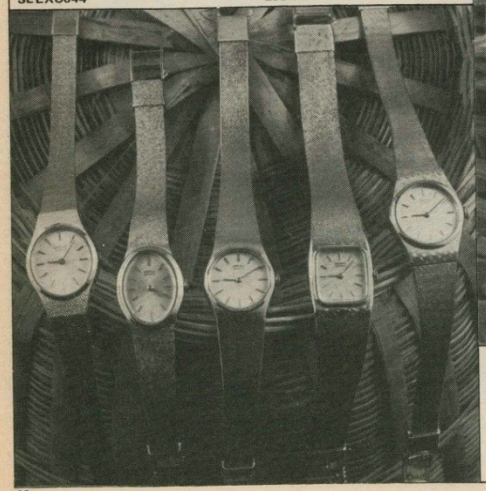
Shpg Wt: 1 lb per watch

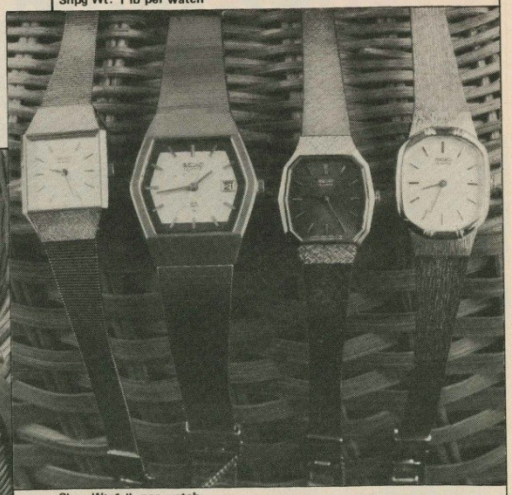
WE WILL BEAT ANY PRICE

LADIES' ANALOG WATCHES

All watches this group: Ladies thin dress, Goldtone, from left:

	Ret:	Your Cost:
SELXT072	$225.00	$179.95
SELXU030	275.00	219.95
SELXU098	275.00	219.95
SELXU094	295.00	235.95
SELXU044	235.00	187.95





Shpg Wt:1 lb per watch

LADIES' ANALOG WATCHES

All watches this group: Ladies Quartz, Goldtone, from left:

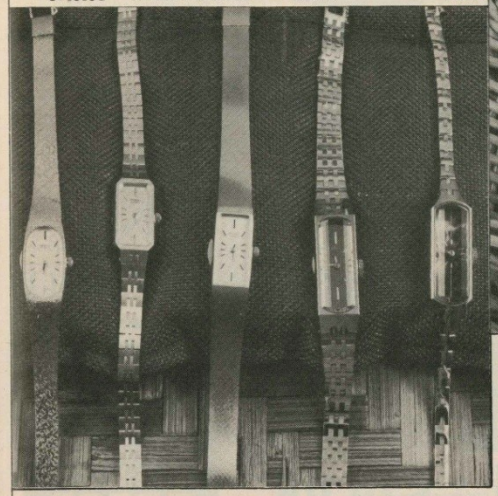
		Ret:	Your Cost:
SELXT114	Thin	$225.00	$179.95
SELYE022	Day-Date, Water Res.	210.00	167.95
SELXU206	Thin	225.00	179.95
SELXU208		225.00	179.95

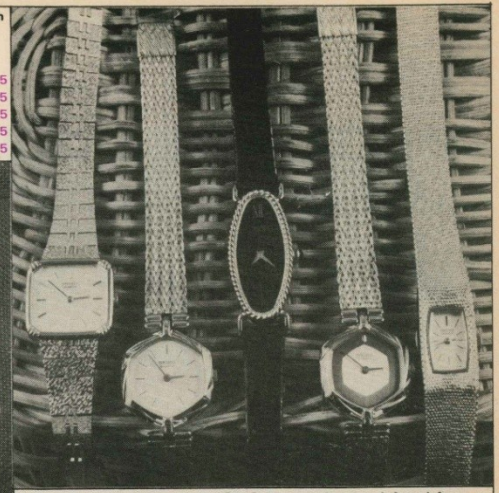
Shpg Wt: 1 lb per watch

LADIES' MECHANICAL & ANALOG

All watches in this group: Ladies Goldtone unless noted, from left

		Ret:	Your Cost:
SE5000G	Dress, Quartz	$410.00	$329.95
SE5020W	Dress Quartz Wht Gold	240.00	189.95
SE5100G	Dress Quartz	420.00	339.95
SE3670G	17 Jewel Handwind	189.00	149.95
SE3660G	17 Jewel Handwind	200.00	159.95





All watches in this group: Ladies Qtz Goldtone unless noted, from left:

		Ret:	Your Cost:
SE5520W	White Goldtone	$225.00	$179.95
SEXT252	Thin Dress Dark Face	295.00	234.95
SE5230GL	Leather Band	220.00	174.95
SEXT254	Thin Dress Light Face	295.00	234.95
SE5030G		240.00	189.95

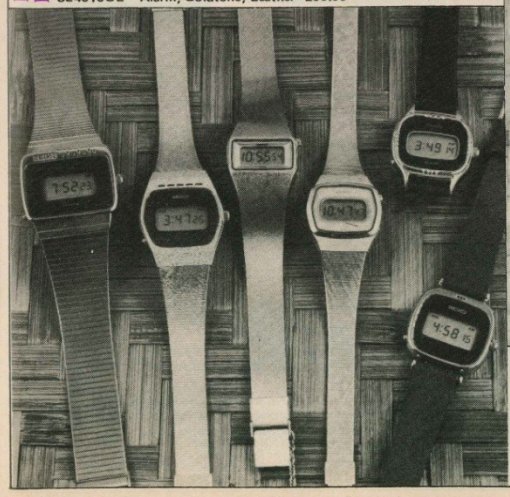
SEIKO

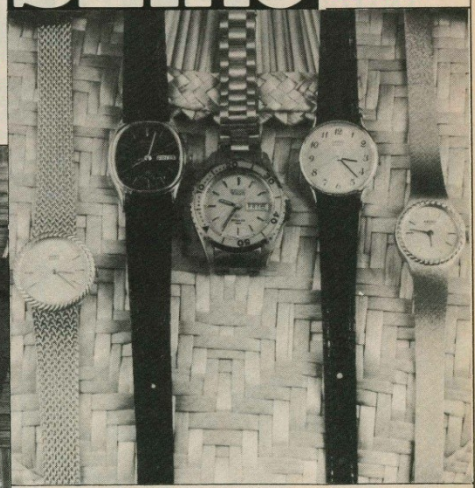
LADIES' ANALOG

LADIES' DIGITAL

All watches in this group: Ladies LCD Digital Quartz, from left:

		Ret:	Your Cost:
SEUT010	Alarm, Goldtone	$240.00	$189.95
SEUT011	As above in White	170.00	135.95
SE4000G	Alarm, Goldtone	210.00	169.95
SELYC014	Goldtone	240.00	189.95
SE5060G	Goldtone	200.00	159.95
SEUT006	Alarm, Goldtone	170.00	139.95
SE4010GL	Alarm, Goldtone, Leather	200.00	159.95





All watches this group: Ladies dress goldtone unless noted, from left:

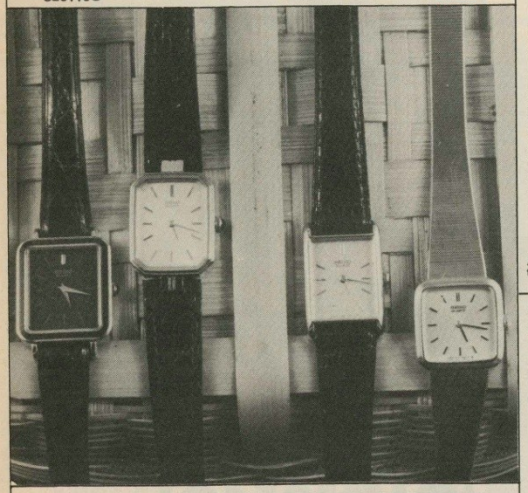
		Ret:	Your Cost:
SEXU298	Thin Quartz	$425.00	$339.95
SE5040GL	Leather band	225.00	179.95
SEXU043	Divers two tone, 300 feet	250.00	199.95
SE0440GL	Leather band	189.00	149.95
SE0180G		375.00	299.95

LADIES' ANALOG WATCHES

LADIES' ANALOG WATCHES

All watches this group: Ladies dress quartz, Goldtone, from left:

		Ret:	Your Cost:
SEXT272	Thin	$225.00	$179.95
SEXU352	Thin	220.00	174.95
SELXT196		195.00	154.95
SE6110G		335.00	269.95

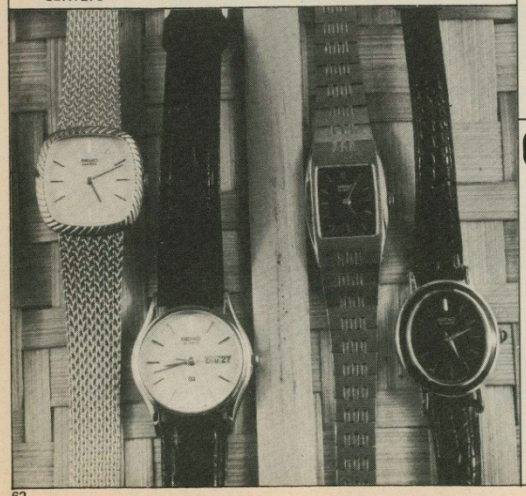


LADIES' ANALOG WATCHES SEIKO

Shpg Wt:1 lb per watch

All watches this group: Ladies dress quartz, Goldtone, from left:

		Ret:	Your Cost:
SEXU286		$435.00	$349.95
SE0030GL	Day-Date, Leather band	215.00	169.95
SE6130G		250.00	199.95
SEXT276		225.00	179.95

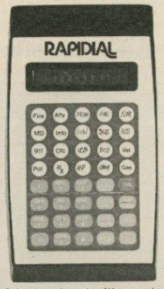


maxell

MAXELL WATCH BATTERIES/Top of the Line
ALL SIZES–BUTTON TYPE–$3.95

RAPIDIAL I

Item No. RD1
Shpg Wt:5 lbs



- Touch-Tone or Rotary
- LED Display
- 20 number memory
- Internal Speaker
- Automatic Hang-up
- Cancel button
- Plugs into any phone
- Portable
- Compact size
- Special Telecommunications Features
- Remembers pauses & halts
- Stores & dials office extensions
- Universally operational
- Always ready
- Remembers last number called
- Full Touch-pad
- Programs in seconds
- Battery back-up
- Solid-state microprocessor technology
- Full-year warranty

Your Cost

$99.95

Adapters inc. to fit any single line telephone installation.

SPECIFICATIONS:
Dimensions: 6 ½" X 3 ½" X 1 ¾"
Power Source: 115 V. AC/60 Hz.

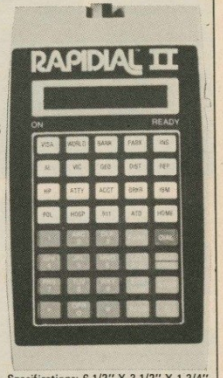
RAPIDIAL II

RAPIDIAL II is a small computer that dials the phone for many business applications

- TRUE TOUCH-TONE
- EASILY PROGRAMMED
- DIALS UP TO 30 DIGITS
- ALWAYS READY
- REMEMBERS LAST NUMBER DIALED
- SPEAKER & DISPLAY
- STORES 20 PHONE NUMBERS

Your Cost

$79.95



- Full touch pad
- 20 number memory
- 30 digit dialing capacity
- LED indicators
- Automatic hang-up
- Cancel button
- Hands free dialing
- Remembers last number called
- Programs in seconds
- Connects to any phone
- Stores & dials office extensions
- Remembers pauses and halts
- Compact size
- Battery back-up
- Solid state microprocessor technology

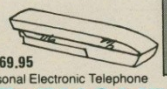
Item No. RD2
Shpg Wt:5 lbs

Specifications: 6-1/2" X 3-1/2" X 1-3/4" WT: 18 oz. Power: 115 V. AC/60 Hz. (220 V. AC/50 Hz. available).

Optional Multi-line adapters: RDAD Multiline $12.95 RDAD35X Multiline $19.95

GTE Universal Dialing Keyset

Colors:
Espresso Brown, Almond
Soft Yellow, Arctic White



Retail:$69.95

The Personal Electronic Telephone

FLIP-PHONE™ TELEPHONE

Your Cost **$44.95**

The phone of the future is here today from GTE. This unique phone is the smallest we have ever made. It is truly a marvel of advanced GTE technology and contains the very latest in sophisticated electronic components. The performance and reliability are outstanding even though it measures less than 2" x 2" x 6". The Flip Phone telephone brings you pushbutton operation with regular Rotary Dial Service...no need for Touch Calling service on your line. Its unique one piece folding design reflects your voice into the hidden microphone. You can control the electronic tone ringer with the on-off switch.

Call us for accessories

Item No SA9918

Model
TRA 9918

SANYO

FEATURES

- Pocketable remote control unit weighs only 1.8 ozs.
- Remote control auto bypass function allows skipping of previously heard messages.
- Incoming message time limited or unlimited with voice actuator stop.
- Remote control also offers reset capability.
- 4-step mode selector and mode indicator.
- Ring delay (1, 3 or 5) switch.
- Answer only switch and quick erase lever.
- Sound volume/monitor switch and variable monitor control.
- Loop tapes for outgoing messages.

Shpg Wt:18 lbs

ANSWERING SERVICE WITH REMOTE CONTROL

Your Cost **$299.95**

Retail:$479.95

Lightweight pocketable remote control coder features one button operation with resetting capability. Main unit offers 4-step mode selector, quick erase lever, plus adjustable sound volume/monitor. Answer only, ring delay and auto bypass switches. Incoming message length can be limited or unlimited. Digital counter provided.

Item No SA9904

TELEPHONE ANSWERING SYSTEMS

Answering Service with Switchable Unlimited Incoming Message Length

Model
TRA 9904

FEATURES

- Incoming message length limited or unlimited with voice actuator stop.
- Economical dual outgoing tape.
- Instant rewind of outgoing message tape.
- Ring delay (1, 3 or 5) switch.
- Answer only switch.
- Variable monitor control.
- Message "received" and "in-use" indicators.
- Full auto stop at tape end in all modes.
- Built-in condenser mike.

New Sophisticated with Voice Actuation

Shpg Wt:17 lbs

Your Cost **$199.95**

Retail:$289.95

Incoming message length can be limited or unlimited with voice actuator stop. Economical dual outgoing tape allows 2 messages on the tape, while instant rewind system acts as soon as incoming message ends. Features include ring delay and answer only switches. LED flashes if calls have been answered. Digital counter provided.

Item No SA9903B

SANYO

Answering Service with Ring Delay Switch

TRA 9903B

Your Cost **$149.95**

FEATURES

- Ring delay switch for answering after 1, 3 or 5 rings.
- Economic dual outgoing tape allows 2 messages on one tape.
- Answer only switch provided.
- Variable monitor control.
- In-use light indicates when unit is in operation.
- Full auto stop at tape end in all modes.
- Built-in condenser mike.

Shpg Wt:17 lbs

Retail:$199.95

Ring delay switch for answering on the 1st, 3rd or 5th ring. Economical dual outgoing tape allows 2 messages on one tape. Features include answer only switch, variable monitor control, full auto stop, built-in mike, in-use indicator and digital counter.

SANYO

Model
TRA M 139N
Item No SAM139N

Your Cost **$129.95**

FEATURES

- Incoming message time limited, with settings between 30 seconds and 3 minutes.
- Convenient loop tapes for outgoing messages.
- 4-step mode selector and mode indicators.
- Built-in mike.
- Simple operation.
- Easy installation.

Answering Service with 4-Step Mode Selector

Shpg Wt:16 lbs

Retail:$179.95

Incoming message length is limited, with settings between 30 seconds and 3 minutes. Loop tape for outgoing messages for immediate answering and playback. Features include 4-step mode selector with mode indicators and built-in condenser mike.

PHONE-MATE "REMOTE" Model 930

COMPUTER AGE SOPHISTICATION with OPERATIONAL SIMPLICITY

Can be set for:
Records Calls
Playback Calls
Record two-way conversation
Tape record/dictation
Record announcement
Announce only
AC Current

Your Cost **$249.95**
Item No PM930

Features
- LED Power On Light
- LED Message Counter
- Manual Erase allows you to erase previous messages when rewinding
- Standard Equipment: Remote Tone Key, Dual Cassettes, Microphone, Owners Manual
- FCC registered (#AAL 99V-62157-PC-N) and conforms to all requirements for plug-in connection to a standard phone company modular jack
- Powered by regular AC house current
- Warranty: 1 year parts, 90 day labor
- Dimensions: Width 8-3/4" Length 11-3/4" Height 3-1/8"

Shpg Wt:14 lbs

EXCLUSIVE C-VOX™

Remote Control with C-VOX Voice Activation
Dual Cassettes—Call Monitor—Ring Adjust—
Dictating Capability—More Message per Tape—
LED Digital Message Counter—Handsome
Woodgrain Styling—Single Control Knob
for operational simplicity—

RETAIL: $299.95

BEST SELLER! PHONE MATE Model PM 910 Twin Cassette Answering System

EASY TO OPERATE & CONNECT

Your Cost **$129.95**
Item No PM910

FEATURES:
DUAL CASSETTES
INCOMING CALL MONITOR
AUDIO SCAN SYSTEM
RING ADJUST
ANNOUNCE OPTION ONLY

Shpg Wt:11 lbs
RETAIL: $149.95

Call Monitor
The Incoming Call Monitor lets you hear who's calling without touching your phone or letting the caller know you're there. If you wish to talk, just pick up the phone. If not, let Phone-mate take the message and return the call at your convenience.

Audio-Scan™
The specially engineered cassette system enables you to hear messages in rewind or fast-forward. This lets you locate specific messages rapidly for instant replay.

Nationwide Service
We Back What We Sell.
Phone-mate, Inc. maintains a network of factory authorized service centers throughout the United States.

Dual Cassettes
Versatility And Convenience.
By keeping your incoming messages and outgoing announcements on separate tapes, you can file important messages for future reference while also establishing an "Announcement Library" for recurring needs.

PHONE-MATE

THE DEPENDABLE, ECONOMICAL WAY TO ANSWER YOUR PHONE

PHONE-MATE®900

High quality at low cost.
The economical way to answer your telephone.

Your Cost **$99.95**
Item No PM900

- Power On signal light
- Self-rewinding, heavy duty, reel to reel broadcast tape
- Rewind and fast forward
- Dimensions 9" x 12" x 3"
- Powered by 110AC household current
- Includes built in condensor microphone, operating manual, and cassette

Shpg Wt:12 lbs

INCOMING CALL MONITOR lets you hear who's on the line without answering your phone.

AUDIO-SCAN™ allows you to hear messages on the tape in rewind or fast forward.

MESSAGE RECEIVED SIGNAL LIGHT instantly notifies you that you have received a message.

EASE OF OPERATION with just a turn of the function selector. A single knob controls message recording, playback, and rewind.

NO INSTALLATION OR MONTHLY CHARGES. Phone-Mate is FCC registered and conforms to all requirements for plug-in connection to standard phone company jacks.

RETAIL: $119.95

Model C-VOX 920

COMPUTER AGE VERSATILITY with CONTROLLED VOICE ACTIVATION

Your Cost **$179.95**
Item No PM920

RETAIL: $209.95
Shpg Wt:14 lbs

LED Power On Light
LED Message Indicator
Rapid Rewind Control
Variable Outgoing Announcement
Standard Equipment: Dual Cassettes, Microphone, Owners Manual
FCC registered (#AAL 99V-62157-PC-N) and conforms to all requirements for plug-in connection to a standard phone company modular jack
Powered by regular AC house current
Warranty: 1 year parts, 90 day labor
Dimensions: Width 8-3/4" Length 11-3/4" Height 3-1/8"

Versatile Enough To Record Lengthy And Complicated Messages.
Controlled Voice Activation means your caller has time to leave a long or involved message. As long as C-VOX™ recognizes the sound of a voice it will continue to record, making it ideal for detailed job orders or instructions.

The "C" In C-Vox Means Control.
C-VOX™ automatically protects your phone against a single caller, automatic phone company recording or a noisy phone connection that can fool ordinary VOX answerers and keep your line constantly busy by using all of the incoming message tape.

"REMOTE" Model 925

An inexpensive Multi-feature Remote System

Your Cost **$199.95**
Item No PM925

REMOTE CONTROL—
Retrieve your messages from anywhere in the world

multi-featured
Fast forward & rewind controls
LED Message received light
Incoming Call Monitor
Audio Scan
Ring Adjust
Dual Cassettes
Announce Only
Simple Connection
FCC Registered
Power On light

Shpg Wt:13 lbs

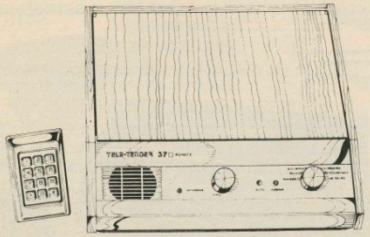
You'll discover new freedom with a Phone-Mate, because it lets you leave your home with confidence. You'll never miss another important call again. And you can relax or work at home without telephone interruption. You can be confident that your telephone will be answered whenever you want, promptly and automatically, 24 hours a day.

RETAIL: $239.95

Standard Equipt: Coded tone key, dual cassettes, microphone, owner's manual.

TELE-TENDER® 37 REMOTE

Tele-Tender 37 with Touch-Tone** Remote Capability.



Your Cost **$229.95**

Item No. TT37
Retail:$399.95
Shpg Wt: 15 lbs

- INSTA-RESET An exclusive feature of the Tele-Tender 37 Remote which immediately resets the unit to accept additional phone calls instantly after the calling party hangs up. (Calling Party Control).
- REMOTE RESET FEATURE.
- REMOTE ACCUMULATE.
- Repeat messages over and over again by remote
- REFERENCE message capability.
- VOX-VOICE ACTIVATION
- FCC APPROVED
- UL APPROVED
- MONITOR Lets you hear who is calling without letting the caller know.
- MESSAGE RECEIVED LED INDICATOR
- VARIABLE ANNOUNCEMENT CAPABILITY
- QUICK ERASE
- VOLUME CONTROL
- A/C OPERATED
- TWIN CASSETTES For dependability.
- SINGLE MAIN FUNCTION CONTROL KNOB
- RING ADJUST—Set the unit to answer on the first or fourth ring.
- Allows for remote retrievable "without beep" if calling from a Touch-Tone phone.
- TWO-WAY Conversation recording capability.
- Supplied with Touch-Tone** coder if calling from rotary style phone.
- GREEN LED INDICATOR Show unit is ready to answer phone.
- ANNOUNCE ONLY

TELE-RECORDER® 250/350

The Complete One Piece Telephone Recording System.

- Simple to install.
- Activates recorder as soon as receiver is lifted. Stops recorder when receiver is replaced.
- Keeps complete and accurate record of all orders, involved conversations and instructions, and no errors in transcription.
- Perfect for sales training.
- Supplied with modular plug.
- Operates with batteries or AC.

Shpg Wt:10 lbs

TELE-RECORDER 250 records all telephone conversations and is a one piece unit. The TR-250 records at regular speed. TR-150 circuitry is built into TR-250 housing.

Item No. TT250
Retail:$119.95
$84.95

TELE-RECORDER 350 records all telephone conversations and is a one piece unit. The TR-350 records at ½ the normal speed. With a C-60 tape you can record 60 minutes per side without changing cassette tape.

Item No. TT350
Retail:$149.95
$119.95

TELE-RECORDER 150

Your Cost **$24.95**

Tape All Your Phone Calls Automatically.

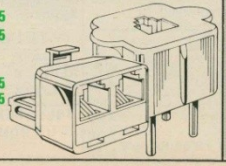
- FCC APPROVED
- No monthly telephone company charges.
- Simple to install.
- Works with your own cassette recorder.
- Activates cassette recorder as soon as receiver is lifted. Stops recorder when receiver is replaced.
- Unit connects to any tape recorder with a remote input.
- No batteries required.
- Keeps complete and accurate record of all orders, involved conversations and instructions, and no errors in transcription.
- Perfect for sales training.
- Supplied with modular plug.

Shpg Wt:2 lbs

Retail:$49.95
Item No. TT150

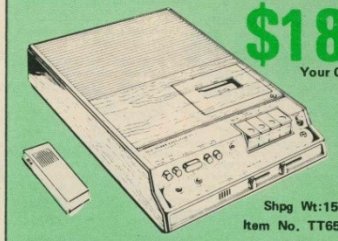
MODULAR TELEPHONE ACCESSORIES

TT-101	Four prong to modular	5.95
TT-102	Duplex modular/converts one modular female jack into 2 female jacks	7.95
TT-103	Modular to 4 prong	5.95
TT-104	Extension cord/creates 20'modular extens. cord connecting block has 2 modular receptacles.	9.95



TT SYSTEMS TELE-TENDER® EXECUTIVE REMOTE

The Complete Telephone Answering and Recording System with REMOTE Capability.



Your Cost **$189.95**

Shpg Wt:15 lbs
Item No. TT650 RETAIL:$289.95

- INSTA-RESET An exclusive feature of the Message Minder 650 Remote which immediately resets the unit to accept additional phone calls instantly after the calling party hangs up. (Calling party control)
- REMOTE ACCUMULATE FEATURE
- FCC APPROVED Simple Installation—no monthly telephone company charges.
- UL APPROVED
- MONITOR Lets you hear who is calling without letting the caller know.
- POWER ON INDICATOR Red LED light
- MESSAGE RECEIVED INDICATOR
- Red LED Message Light.
- Green LED Indicator shows you machine is programmed properly to answer phone.
- BUILT-IN CONDENSER MICROPHONE
- SLIDE VOLUME CONTROL
- REMOTE RESET FEATURE
- RAPID REWIND
- FAST FORWARD For quick access to messages. Uses AC Current, not expensive unreliable batteries.
- TWIN CASSETTES FOR DEPENDABILITY Records as many outgoing messages as needed on seperate cassettes. Easy loading cassette mechanism—automatic eject for quick release. Can be used as regular tape player. Cassettes can be erased for re-use or filed for future reference. Supplied with modern modular jack plug.
- RING ADJUST Set the machine to answer from the first to the fifth ring. Simulated wood-grain finish for beautiful appearance.
- Weighs 9 lbs. and is 10½" by 2¾" by 14½".

The TELE-TENDER EXECUTIVE Remote telephone answering system has a remote control "beeper" so you can receive recorded calls without returning home. Simply call your home or office, then 'beep' to activate the base receiving unit over the phone.

VOX BOX™

Retail:$79.95

VOICE-ACTIVATED Microphone.

Your Cost **$48.95**

Shpg Wt:3 lbs
Item No. TTVB

- A calibrated sensitivity control allows you to record as close as two inches or as far as 20 feet away.
- Perfect for conferences, dictation; surveillance. (The VOX BOX, your silent partner).
- Maximize use of your tapes—only moves when recording.
- LED light to indicate when recorder is operating.
- High fidelity and constant volume recording from distance is achieved by a unique automatic level control designed into the VOX BOX. This actually upgrades the quality of a common recorder.
- Record without buttons or hand held microphone.
- The VOX BOX automatically turns recorder on or off at the sound of your voice.

TT SYSTEMS

The VOX BOX is a voice or sound activated microphone. A new concept utilizing computer logic chips allows you to convert any common cassette recorder into a sound activated one.

TONE CODER-1

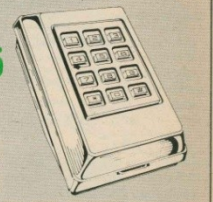
MODEL TC-1

The Convenience of Touch Tone** Service with No Installation Necessary.

Item No. TTTC1

- No installation required
- Easy to use
- No FCC approval required
- Battery operated
- Ham radio repeater access
- CB phone patch access
- Crystal controlled tone frequencies
- Positive-response keyboard
- Hi-fidelity speaker for superior tone quality and volume
- Solid-state electronics
- High impact plastic housing
- Computer Access

Your Cost **$49.95**



Shpg Wt:3 lbs

Tone Coder 1 will give you Touch-Tone** signaling for use of the many useful new computer based telephone services such as: bank-by-phone; central dictation; order entry; alternative long distance networks like City-Call, Execunet or Sprint; answering machines; call diverters-line extenders; and many more.

Retail:$79.95

TT SYSTEMS

Record a Call® 90A
Dual/Remote® 90A with VOX® [voice actuation]

Remote Control and Remote Back Space

Trouble-free twin cassette system. The ultimate in convenience.

Features
- Simple, One control operation.
- Two cassette system.
- VOX® with voice actuation.
- Accepts up to 120 messages.
- Ring control—1 to approx. 10 rings.
- Exclusive silent monitor, only the caller's voice is heard.
- Announce only, gives your message to caller then hangs up.
- Fast forward, to speed up message review.
- Rapid rewind, saves time in rewinding message tape.
- Rapid erase, allows you to erase old messages when rewinding.
- Two way conversation record, with built-in lawful beep.
- Message light, flashes when message received, glows to indicate power is On.
- Limited warranty: One year parts excluding accessories 90 days labor.

Your Cost
$299.95
Item No. RE90A
Retail:$379.95

Change your outgoing message by remote control

VOX® with voice actuation, lets your caller speak as long as they wish.

Compact size 9" x 11⅞" x 3⅞" AC powered

great new feature of actually changing your outgoing announcement over the phone by remote control.

Shpg Wt:13 lbs

Record a Call® 80A
featuring Remote Control and Voice actuation

VOX® with voice actuation, lets your caller speak as long as they wish.

Trouble-free twin cassette system. The ultimate in convenience.

One control for uncomplicated operation.

Compact size 9" x 11⅞" x 3⅞" AC powered

Your Cost
$239.95
Item No. RE80A
Retail:$299.95

Shpg Wt:12 lbs

Features
- Simple, One control operation.
- Two cassette system.
- VOX® with voice actuation.
- Accepts up to 120 messages.
- Ring control—1 to approx. 10 rings.
- Exclusive silent monitor, only the caller's voice is heard.
- Announce only, gives your message to caller then hangs up.
- Fast forward, to speed up message review.

Remote Control. Get your message from any phone, anywhere in the world.
- Rapid rewind, saves time in rewinding message tape.
- Rapid erase, allows you to erase old messages when rewinding.
- Two way conversation record, with built-in lawful beep.
- Message light, flashes when message received, glows to indicate power is On.
- Limited warranty: One year parts excluding accessories. 90 days labor.

Voice actuation adds a new dimension in telephone answering systems.

Record a Call® 70A

VOX® with voice actuation, lets your caller speak as long as they wish.

Ring Control. It answers when you want it to.

One control for uncomplicated operation.

Trouble-free twin cassette system.

Compact size 9" x 11⅞" x 3⅞" AC powered

Your Cost
$169.95
Item No. RE70A
Retail:$199.95

Features
- Simple, One control operation.
- Two cassette system.
- VOX® with voice actuation.
- Accepts up to 120 messages.
- Ring control—1 to approx. 10 rings.
- Exclusive silent monitor, only the caller's voice is heard.
- Announce only, gives your message to caller then hangs up.
- Fast forward, to speed up message review.
- Rapid rewind, saves time in rewinding message tape.
- Rapid erase, allows you to erase old messages when rewinding.
- Two way conversation record, with built-in lawful beep.
- Message light, flashes when message received, glows to indicate power is On.

Shpg Wt:12 lbs

Message Time Selector

One control for uncomplicated operation.

Ring Control. It answers when you want it to.

Shpg Wt:11 lbs

Features
- Simple, One control operation.
- Two cassette system.
- Ring control—1 to approx. 10 rings.
- Accepts up to 120 messages.
- Message Time Selector, 20 or 40 second incoming messages.
- Exclusive silent monitor, only the caller's voice is heard.
- Announce only, gives your message to caller then hangs up.
- Fast forward, to speed up message review.
- Rapid rewind, saves time in rewinding message tape.
- Rapid erase, allows you to erase old messages when rewinding.
- Two way conversation record, with built-in lawful beep.
- Message light, flashes when message received, glows to indicate power is On.
- Limited warranty: One year parts excluding accessories. 90 days labor.

Compact size 9" x 11⅞" x 3⅞" AC powered

Your Cost
$134.95
Item No. RE60A

a reliable one control, twin cassette system, that answers your phone 24 hours a day.

Retail:$149.95

Record a Call® 60A

If your customer has a 4-pin Wall Jack (Figure 1c) he will need a RJA1X, Modular to 4-pin Adapter (Figure 1b).

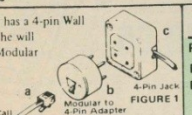


FIGURE 1

Some customers may want to connect both their Record-A-Call and telephone to one Modular Wall Jack. The Modular "Y" Adapter, RJA2X (Figure 2) will do this.

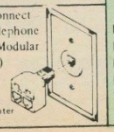


FIGURE 2

ACCESSORIES

PART NO.	DESCRIPTION	YOUR COST
REMC1	Microphone (all models)	$3.50
RERK1	Extra Remote Key (Model 80 specify frequency)	34.95

CASSETTES
Endless loop outgoing

REOC12L	12 second	4.50
REOC21L	20 second	4.50
REOC30L	30 second	4.95
REOC45L	45 second	4.95
REOC60L	60 second	5.50
REOC120L	120 second	5.50

ACCESSORIES

PART NO.	DESCRIPTION	YOUR COST
	Leaderless incoming	
REIC30R	30 minute	2.50
REIC60R	60 minutes	4.50

TELEPHONE LINE ADAPTERS

RERJA1X	Modular to 4 pin	5.95
RERJA2X	"Y" Adapter	9.95
RERJA2X	"Y" Adapter	8.95

TOLL-FREE OUTSIDE CALIF. 800-421-8045
FROM CALIF. & FOR INFORMATION (213)-381-3911

New Model 1750 with Remote Control & Voice Activation

Item No CP1750

Your Cost
$249.95
Retail:$299.95

CODE-A-PHONE® 1750 FEATURES

Announcement Capabilities
- Variable up to 30 seconds.
- Instant replay to check announcement.

Message capabilities
- Messages voice controlled, any length to 30 minute tape capacity
- 45 second fixed message time option.
- Fast rewind eliminates waiting. (Appr. 20:1 ratio)
- Fast forward. (Appr. 20:1 ratio)
- Call screening.
- Manual cancel or accumulate messages option.
- Memo record.
- In Use LED light.
- Ready/Message Received LED light.

Remote capabilities
- Message playback and repeat.
- Individual codes for security.

Exclusive Code-A-Phone features
- Truly variable announcement length.
- Instant announcement replay.
- Built-in condensor microphone.
- Automatic turn-on returns itself to Answer mode.
- Ring delay actually counts rings.
- Magic Touch™ electronic controls.

Shpg Wt: 15 lbs

CODE-A-PHONE® 1550

Your Cost
$289.95

Hear your messages played back from any telephone, anywhere.

The Code-A-Phone® MessageCenter with Remote Command.

MessageCenter is easy to install and even easier to have around the home.

Retail: $349.95

Item No CP1550

Code-A-Phone MessageCenter features

Announcement capabilities
- Record through integrated handset
- Variable from 2 to 20 seconds
- Instant announcement rewind and playback

Message capabilities
- L.E.D. message light to signal messages
- Accepts 20 messages of 30 seconds each
- Call Counter
- Fast forward to next channel in 1.5 sec.
- Fast rewind for easy reset
- Selective erase of any channel
- Call screening through integral speaker
- Ring delay, first or fourth ring

Telephone
- Full modular configuration
- Outgoing calls can be made while in "answer" position
- Convenient Magic Touch dialing
- Automatically stores last number dialed for automatic redialing
- Available in Almond with Cocoa insert panels

Remote capabilities
- Message playback from any telephone, anywhere

Shpg Wt: 16 lbs

Item No CP1500

Your Cost
$259.95

CODE-A-PHONE® 1500

The Telephone Answering System

The Code-A-Phone MessageCenter:

Retail:$319.95

Shpg Wt:16 lbs

Decorator telephone and Remote Command answering system.

Features
- Fast forward to next channel in 1.5 sec.
- Fast rewind for easy reset.
- Selective erase of any channel.
- Call screening through integral speaker.
- Ring delay, first or fourth ring.

Telephone
- Fully integrated telephone set.
- Outgoing calls can be made while in Answer position.
- Full modular configuration.
- Available in Almond with Cocoa or Black with Walnut insert panels.

Announcement capabilities
- Record through integrated handset.
- Variable from 2 to 20 seconds.
- Instant announcement rewind and playback.

Message capabilities
- Accepts 20 messages of 30 seconds.
- Call counter with flashing lamp.

Remote capabilities
- Message playback.

Compact. Attractive. With full Remote Command message control from any telephone. Model 1450 Remote Control

Plays messages back by remote control from any telephone

Takes 20 messages of 30 seconds each

One-way speaker for screening calls

Plugs into any modular phone jack

Your Cost
$219.95

Code-A-Phone 1450 features:

Announcement capabilities
- Variable from 2 to 20 seconds
- Built-in condenser microphone
- Instant announcement rewind and playback

Message capabilities
- Accepts 20 messages of 30 seconds each
- Message Alert
- Call Counter
- Fast forward
- Rewind for instant reset
- Selective erase
- Call screening
- Ring delay, first or fourth ring

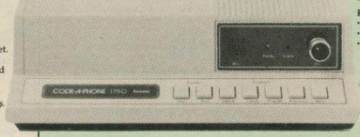
Remote capabilities
- Modulated signal tone
- Variety of codes available
- Automatic fast forward between messages

Increase home security with your Code-A-Phone 1450. Fully approved and easy to install.

From the people who pioneered telephone answering equipment.

Power requirements: 120V, A.C. 50-60 Hz.

Retail:$269.95



Item No CP1450

Shpg Wt:16 lbs

Item No CP1400

CODE-A-PHONE® 1400

Your Cost
$219.95

Telephone Answering System

Retail:$269.95

Message capabilities
- Accepts 20 messages of 30 seconds.
- Call Counter.
- Fast Forward.
- Rewind for instant reset.
- Selective Erase.
- Call Screening.
- Ring Delay, first or fourth ring.

Remote capabilities
- Modulated signal tone.
- Variety of codes available.

Announcement capabilities
- Variable from 2 to 20 seconds.
- Built-in condenser microphone.
- Instant announcement rewind and playback.

Shpg Wt:16 lbs

Item No CP1000

Your Cost
$124.95
Retail:$139.95

CODE-A-PHONE® 1000

Code-A-Phone Model 1000 Features:

Announcement capabilities
- Variable; 6 settings from 5-20 seconds
- Built-in condenser microphone
- Instant announcement rewind and playback

Message capabilities
- Takes 20 messages of 30 seconds each
- Digital call counter
- Fast forward to next message
- Fast rewind for easy reset
- Selectively erase any message
- Call screening through integral monitoring speaker with volume control
- Ring delay through

Easy to install with no monthly charges

You'll notice the ease as soon as you hook up your new 1000. Just insert the modular plug into any modular phone jack, and plug the power source into a standard 110 volt electrical outlet. Your machine is ready to go to work.

Like all Code-A-Phone products, the 1000 is FCC approved, so you can legally hook it up to your phone line yourself, with no monthly charges from the phone company.

The Code-A-Phone® 1000. You'll wonder how you ever got along without it.

Power requirements: 120 V. A.C. 50-60 Hz.
Dimensions: 3½" H x 12½" W x 9¼" D

Shpg Wt:14 lbs

ITT OWN-A-PHONE™ perfect answer with advanced R.V.C.

Your Cost **$329.95**

Retail:$399.95

The most unique answering system you ever heard! We've discarded the inconvenient and costly remote tone key other devices use, and substituted your *voice*. That's Right! Through advanced computer technology, your own *voice* is the key to activate the remote system. And of course the quality you expect from ITT, is built into every "Perfect Answer" unit.

The "Perfect Answer" is loaded with "State of the Art" features including: *R.V.C. - Remote Voice Command* - personalized coding of your own voice for the ultimate in remote systems: *Built-in telephone* - sleek styling, serves as an extension phone accesses phone with a touch of a button: *Voice Activated* - allows your caller the freedom to leave any length message: *Saves tape* - unit stops recording after voice message ends: *Call Monitor* - listen to your caller leaving their message: *L.E.D. Multi-functional Display* - confirms unit's operating function and doubles as a *message* counter: *Dual Cassette System* - for easy access and operation: *Variable Length Broadcast* - freedom to individualize your announcement message.

Most Unique Telephone Answering System

R.V.C. - Remote Voice Command • Built-in-telephone • Dual cassette operation • Multifunctional L.E.D. Display • Ring adjust • VOX - Controlled voice activation • Call Monitor • Variable length broadcast • Power on indicator

ITT PC 6000

NEW ITT X-10 Telescopic $49.95 with Memory Redial

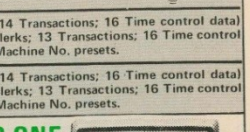
CS2204ER **$695.00**

CS2202ER **$600.00**

CASH CONTROL CONVENIENCE.

The first economy register with 16-hour time control data and fully automatic date and time printout.

- Built-in clock allows fully automatic date and time printout on the receipt and journal, and an hourly breakdown of 16 hours' sales make store management and cashier scheduling effective.
- Accurate tax computation at one touch through a combination of presettable table tax and manual tax.
- Highly competent features, more register capabilities, more total capacities than any other register in their price range.
- One-touch read and reset operations.
- Heavy-duty printer.
- Optional rotary customer price display (Model: D-9).
- Optional emergency power protection battery (Model: B-5).



CASIO 2204ER

38 Totals (4 Departments; 4 Clerks; 14 Transactions; 16 Time control data) and 37 Counters (4 Departments, 4 Clerks; 13 Transactions; 16 Time control data), Plus Date, Time, Tax table and Machine No. presets.

CASIO 2202ER

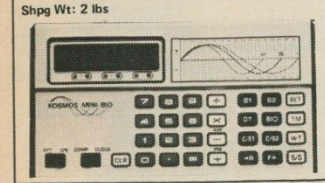
36 Totals (2 Departments; 4 Clerks; 14 Transactions; 16 Time control data) and 35 Counters (2 Departments; 4 Clerks; 13 Transactions; 16 Time control data), Plus Date, Time, Tax table and Machine No. presets.

KOSMOS MINI-BIO

Item No. KOMINI

Your Cost **$49.95**

Shpg Wt: 2 lbs



SPECIFICATIONS:

Display: LCD liquid crystal. Main display 8 digits. Clock display 6 digits with PM and WT indications.

Operating Temperature: 0°C to 40°C

Storage Temperature: 15°C to 55°C

Dimensions: 12 mm long, 84mm, w.dx 64mm deep at keyboard

Functions: Biorhythm calculation. Average lifetime compatibility calculation (C-51). Daily compatibility calculation (C-52). Local time (hour, minute, second). World time (hour, minute, second). Stopwatch. Counter. Calendar (1901 - 1999). Standard 4 function calculations. Auto constant (+ , -).

Calculation Range: Entry/Result 8 digits

Calendar: 1/1/01 through 12/31/99

Calculation Method: Algebraic method

Decimal Point: Floating mode

Negative Number: Indicated by minus (-) sign

Error/Overflow Check: Indicated by "E" sign

Clock Accuracy: 20 sec/month at 20°C

Power Source: 10124 Mallory G-12 Matsushita MS41H Eveready or RS41G Ray-O-Vac batteries

Battery Life: 10,000 hours

KOSMOS ONE

Biorhythm Computer–Calculator

Your Cost **$39.95**

Item No. KO1

Shpg Wt: 2 lbs

KOSMOS 1 is a hand-held computer that provides biorhythm information for any individual for any day, past, present, or future. Biorhythms are the three energy cycles—Physical, Emotional and Intellectual—that every human body follows from birth. And biorhythmic status changes from day to day.

KOSMOS 1 provides insight into the reasons why you feel and perform the way you do. Indicator lights, an exclusive feature, instantly show "Caution" (red) and "Mini-Caution" (yellow) days. KOSMOS 1 also compares biorhythms for any two individuals, and displays the lifetime compatibility/similarity ratio in percentages. In addition, it can operate as a full four-function arithmetic calculator.

SPECIFICATIONS

Operating Temperature: 0°C to 40°C

Dimensions: 140mm (D) x 70mm (W) x 27mm (H)

Weight: 160 grams (including batteries)

Calculation Range: Entry/Result 8 digits

Calendar: 1/1/01 through 12/31/99

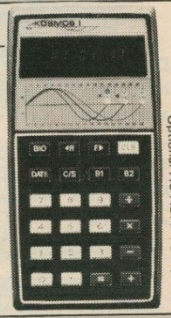
Calculation Method: Algebraic method

Decimal Point: Full floating decimal point system

Negative Number: Indicated by minus (-) on left of digit

Error/Overflow Check: Indicated by the sign, locking computer.

Main Element: MOS LSI complete 1-chip



Optional AC ADAPTOR $5.25

KOSMOS™ "ASTRO"

Your Cost **$39.95**

Shpg Wt: 2 lbs

Item No. KOASTRO

WHAT ASTRO DOES

ASTRO by KOSMOS takes you far beyond the common Sun sign astrology found in newspapers and magazines. In addition to the Sun (purpose) ASTRO gives you information on the influences of three other important planets: Mercury (mind), Venus (emotion), and Mars (style). And the complete Astro Information Manual helps you make the most of ASTRO capabilities. Here's how ASTRO works.

PERSONALITY ANALYSIS

DAILY HOROSCOPES PAST/PRESENT/FUTURE

PERSONAL COMPATIBILITY READINGS

KOSMOS TWO

BIORHYTHM COMPUTER/ CALCULATOR

Your Cost **$29.95**

Shpg Wt: 2 lbs

Item No. KO2

This modestly priced hand-held computer calculates individual biorhythms for any past, present or future date and displays them digitally. To help evaluate relationships between spouses, employer-employee, salesperson-customer, athletic competitors or any other two individuals, KOSMOS 2 compares biorhythm cycles and displays compatibility/similarity as a percentage. It can also be used as a full four-function arithmetic calculator.

SPECIFICATIONS

Operating Temperature: 0°C to 40°C

Dimensions: 133.5mm (L) x 73mm (W) x 20mm (D).

Weight: 145 grams (including batteries)

Calculation Range: Entry/Result 8 digits

Calendar: 1/1/01 through 12/31/99

Error/Overflow Check: Indicated by the sign, locking the computer.

Calculation Method: Algebraic method

Decimal Point: Full floating decimal point system

Negative Number: Indicated by Minus (-) sign on left of digit

Power Consumption: 300mw maximum.

Optional AC ADAPTOR $5.25

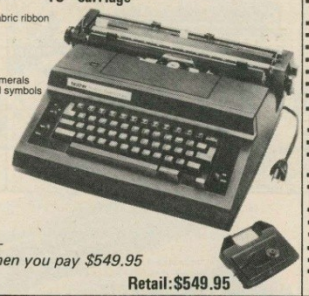
NEW HEAVY DUTY BROTHER #7800 CORRECT-O-BALL

Cassette carbon ribbon- perfect for home or office

CALL US FOR THE BEST PRICE

- Interchangeable ball typing element
- Interchangeable carbon cassette ribbon
- Independent built-in correction system compatible with carbon or fabric ribbon
- Full 13" carriage
- Power electric carriage return
- Electric repeat backspacer
- Key set tabulator
- The "ball" contains full alphabet, numerals and all commonly needed signs and symbols
- Electric repeat characters
- Variable line spacer: 1, 1 1⁄2, 2
- Repeat spacer
- Variable platen
- Paper support arm/line indicator
- Paper guide
- Erasure table
- Deluxe molded carrying case
- Detachable power supply cord
- Dimensions: 17 1⁄2" x 15 1⁄4" x 7"
- UL listed, operates on 115 volt AC

13" carriage



FREE *with purchase— $100 carrying case when you pay $549.95*

Shpg Wt:40 lbs

Retail:$549.95

BROTHER XL-20 plus 3 Heavy Duty Portable ELECTRIC Fully AUTOMATIC Cassette Ribbon

Comes with heavy duty carrying case

- Cassette ribbon system...hands never have to touch the ribbon
- Full 13" carriage
- Power electric carriage return
- Check protector key
- Electric repeat spacer and repeat backspacer
- Electric repeat keys
- Repeat characters Xx-
- Convenient key set tabulator
- Rapid paper advance
- 88 character office keyboard
- Power segment shift carriage
- Touch adjustment selector
- Versatile three position ribbon adjuster: 2-color ribbon plus stencil position
- Detachable electric cord
- Pica or Elite type styles
- Carriage lock prevents damage when being carried
- Paper support
- Clearview paper meter with scale and line indicator
- Instant set visible margins
- Types up to 8 sheets of paper at a time
- Variable line spacer: 1, 1½, 2
- Deluxe heavy duty molded carrying case
- Dimensions: 5¼" H. x 17¾" W. x 14⅝" D
- UL Listed: Operates on 115 Volts AC

Your Cost **$289.95**

13" Carriage

Shpg Wt:35 lbs

Retail:$399.95

BROTHER L-10 plus 3 Fully electric & automatic Cassette ribbon

Comes with heavy duty carrying case

13" Carriage

- Cassette ribbon system...hands never have to touch the ribbon
- Full 13" carriage
- Power electric carriage return
- Electric repeat spacer and repeat backspacer
- Electric repeat keys
- Electric repeat characters (Xx-...)
- Versatile three position ribbon selector: 2-color ribbon plus stencil position
- Types up to 8 sheets of paper at a time
- Convenient key set tabulator
- 88 character office keyboard
- Power segment shift carriage
- Touch adjustment selector
- Variable line spacer: 1, 1½, 2
- Paper support arm
- Clearview paper meter with scale and line indicator
- Instant set visible margins
- Detachable electric cord
- Pica or Elite type styles
- Automatic carriage lock prevents damage when being carried
- Deluxe heavy duty molded carrying case
- Dimensions: 5¼" H. x 17¾" W. x 14⅝" D.
- UL Listed: Operates on 115 Volts AC

Your Cost **$229.95**

Shpg Wt:34 lbs

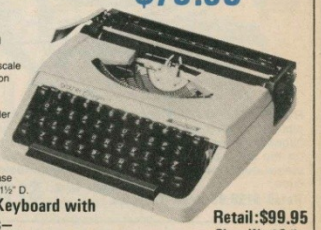
Retail:$349.95

BROTHER FAMOUS CHARGER II PORTABLE MANUAL with case

ALL STEEL PORTABLE TYPEWRITER THAT CAN SELF-CORRECT

FEATURING KEYBOARD CORRECTION SYSTEM

Your Cost **$79.95** with case



- 84 character standard keyboard
- Rugged all steel construction
- Instant margins and paper bail scale
- 2-color ribbon and stencil position
- Backspace key
- Jam release key, synchronized measuring scale and card holder
- Contoured shaped keys
- Half-space ratchet
- Line drawing aperture
- Pica type style
- Heavy Duty lid cover carrying case
- Dimensions: 3½" H. x 12" W. x 11½" D.

Comes in English Keyboard with correcting features—

Comes in Spanish keyboard *(no correcting feature)*

Ask us for quantity price with Spanish keyboard

Retail:$99.95

Shpg Wt:16 lbs

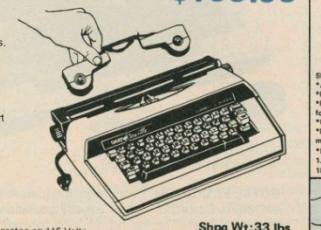
BROTHER 4812 New CORRECT-O-WRITER II PORTABLE ELECTRIC

(replaces 4712)

Return carriage with case & cassette ribbon

Your Cost **$199.95**

- Full 88 character office keyboard including the ¢, ½, 1, and 1/4... four more than standard
- Full size 12" wide carriage
- Swift and silent electric carriage return
- Electric repeat backspacer
- Electric repeat keys
- Electric repeat characters: (Xx- ...)
- Automatic repeat spacer key
- Automatic electric shift key
- Convenient tabulator for indents, subtitles and columns
- Touch adjustment selector
- Half-space ratchet
- Versatile 3-position ribbon selector: 2-color ribbon plus stencil position
- Erasure table and paper support arm
- Line drawing aperture
- Comfort sloped keyboard
- Paper meter and scale
- Pica and Elite type styles available
- Deluxe molded contoured carrying case
- Dimensions: 6¾"H. x 15"W. x 14¼"D.
- UL Listed: Operates on 115 Volts AC



Shpg Wt:33 lbs

Retail:$319.95

BROTHER TP-1 HAND HELD Printing/LCD Display

Your Cost **$67.95**

Shpg Wt:5 lbs

- Square Root, Paper Feed keys
- Percentage, Total, Subtotal keys
- Easy roll insertion & removal
- Accepts any pen-light battery
- Easy-to-read 10-digit display
- Live memory to register input & results
- Display with or without printout
- Convenient non-add key
- Decimal point selecter (F, 0, 2, A mode)
- Legible writing on thermal paper
- Percentage, Rounding keys
- Memory keys: Plus, Minus, Subtotal and Total

SPECIFICATIONS

*Add mode: Decimal point fixed at 2 positions.
*Printing speed: 2.0 lines per second
*Power source: Four Alkaline batteries (LR-6) for long life (12,000 lines)
*Usable temperature: 32-104°F (0-40°C)
*Dimensions: 2.9" (74 mm)W x 5.8" (147 mm)D x 1.2" (30 mm)H
*Roll paper: Heat-sensitive (thermal) paper: 1.5" (38 mm) wide; roll dia.: 0.7" (18 mm) 18.4' (5.6 m) long
*Display: Liquid Crystal Display 10 digits with 2 sign digits plus various signs and symbols
*Decimal point: Full floating and fixed (0 or 2) with round-off or truncate

Retail: $119.95

CASSETTE RIBBONS AVAILABLE

Model 1020: Black/Red	Y/C $5.45	
Model 1022: Black/Correction		
Model 1023: Green/Correction	Y/C $5.95	
Model 1024: Brown/Correction		
Model 1025: Blue/Correction	Shpg Wt: 2 lbs	
Model 1026: Carbon		

ROYAL SAFARI Full-featured compact manual portable with 3-position Touch Control. Complete 88-character keyboard, pre-set tabulation, touch-set margins and 1, 1½, 2 vertical line spacing, 2-color ribbon with stencil. Console carrying cover. **Your Cost $87.95**

Retail:$109.95 **Shpg Wt:17 lbs**

ROYAL CUSTOM III Deluxe, full-featured manual. Complete 88-character keyboard with segment shift for proper alignment. The perfect manual for the professional typist on the go. Includes Touch Control, full range tabulation, stencil cutter, two color ribbon and erasure table. Carry case. **Your Cost $119.95**

Retail:$159.95 **Shpg Wt:26 lbs**

ROYAL

ROYAL BUSINESS MACHINES, INC.
CONSUMER PRODUCTS

The office electric for light office use!

***ERR-OUT** Ribbon –*
The Easy Way To Correct Mistakes.

ROYAL CENTURION DELUXE More than a portable. This durable model has features found on more expensive typewriters. 12¾" carriage, office keyboard, wide range Touch Control adjusts to the feel of any typist. Impression control for multiple carbons. Totally electric with full range electric touch tabulation, repeat vertical line spacing, electric ribbon system, fast 160 WPM typing action, index card holder. Repeat back space, space bar and repeat (x), (.), (-). Perfect for light office use with 2 interchangeable keys. Carry case. **Your Cost $299.95**

Retail:$429.95 **Shpg Wt:48 lbs**

INTERNAL CORRECTION SYSTEM

For Spanish Keyboard, Special Order $10.00 Extra

Horizontal Half-Space Key *Correction Key*

ROYAL ARISTOCRAT Professional, total-electric portable for school or home. Half-space key, correction key for fast, simple corrections. Electric carriage return, repeat back space, vertical line spacing, repeat (x), (.), (-), space bar with electric touch tabulation. 12½" carriage. 88-character office keyboard, touch-set margins. Carry case. **Your Cost $229.95**

Retail:$319.95 **Shpg Wt:30 lbs**

***ERR-OUT** Correction Ribbon*
The Easy Way To Correct Mistakes.

ROYAL EDUCATOR Economical full-featured electric portable with manual return. Correction ribbon, keyset tabulation, segment shift. Electric repeat back space, repeat (x), (.), (-), forward space bar. 12½" carriage, complete 88-character keyboard. Carry case. **Your Cost $189.95**

Retail:$249.95 **Shpg Wt:30 lbs**

INTREPID™

The Personal Portable that types with a BALL ELEMENT

Your Cost

$324.95

TYPING ELEMENTS:

10 PITCH		12 PITCH	
Pica	10 #101	Elite	12 #166
Pride	10 #158	Pride	12 #159
Casual	10 #117	Classical	12 #186
Precise	10 #119	Precise	12 #120
Script	10 #111	Script	12 #112

Character spacing is either 10 pitch or 12 pitch. In some cases, elements may be intermixed, but spacing is not changeable.

RIBBON CASSETTES

Quick-change ribbon cassettes are available in black nylon fabric for routine typing. For denser and clearer print, black multi-strike mylar is available. Colors: blue, red, brown and green in nylon fabric. Each cassette includes correction tabs for a complete correction system.

INCLUDING CARRYING CASE

Now there's a ball machine that's made for the personal you – you at home or you at school. It's lightweight, affordable and has features you find in expensive heavy-weights.

- **Interchangeable typing elements.** Can quickly change the face to suit the mood of your message: business...personal...formal...friendly.
- **Quick-changing ribbon cassettes.** The clean compact way to add color – in seconds!
- **Firm responsive touch.** For smooth, quiet effortless typing – page after page.
- **Superior writing line.** Clean, crisp type – and clear carbon copies too.
- **Professional, 45-key keyboard.** Plus repeating keys, full-range tabulator, and a wide carriage.

Optional balls 10 or 12 pitch, **Your Cost:$14.95 each** **Shpg Wt:40 lbs**

SMITH-CORONA®

AMERICA'S No 1 SELLER!

Coronamatic 2500

12" Electric PORTABLE Automatic Carriage Return

- Cartridge-ribbon system
- Office-size keyboard
- Executive quality letters
- Time-saving features
- Deluxe double-walled case

Your Cost

$324.95

- Carbon film
- Nylon fabric
- Correction tape
- Red, Blue, Green, Brown

The Coronamatic 2500 is a design masterwork, built upon a rugged and time-proven chassis. Durable and dependable — yet simple to service. It satisfies the esthetic eye, the job at hand and the confidence of the discriminating purchaser . . . at a practical price. The 2500 has all of Smith-Corona's top-line standard features, including paper injector, controls for impression and touch, full range tabulator and such repeating actions as a check embosser, xxxx, underlines, dashes and dots. Many more businesslike features, too.

But most important . . . this beautiful looking typewriter produces beautiful looking letters, reports and homework. The standard typefaces, Regency Pica and Regency Elite, combined with the Smith-Corona carbon film cartridge deliver a crisp, dense black impression — equal to machines costing far more.

The 2500 offers all of the performance features and satisfaction of larger machines, without sacrifice of quality or portability.

Typestyles
Presidential Pica #78
Regency Pica #80
Classic Pica #85
Presidential Elite #77
Regency Elite #81
Classic Elite #86
Script Elite #75

Film ribbon cartridge—$3.95
Correction cartridge—$3.95
Fabric ribbon cartridge—$3.95

Carrying case included

Shpg Wt:37 lbs

CORONAMATIC® 2200

CARTRIDGE RIBBON SYSTEM • OFFICE-SIZE KEYBOARD BUSINESSLIKE FEATURES • PAPER INJECTOR

12" Carriage - Automatic Power Return

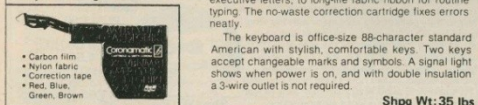
- Cartridge ribbon system
- Carbon film and Fabric ribbon
- Quick, clean corrections
- Double-walled case
- Extra-wide carriage
- Office-size keyboard
- Paper injector

Carry Case Included

Your Cost

$299.95

Any cartridge—$3.95



- Carbon film
- Nylon fabric
- Correction tape
- Red, Blue, Green, Brown

Cartridges eject or insert with a touch. There are no covers, latches or threading chores to contend with. In seconds, you can change from carbon film for executive letters, to long-life fabric ribbon for routine typing. The no-waste correction cartridge fixes errors neatly.

The keyboard is office-size 88-character standard American with stylish, comfortable keys. Two keys accept changeable marks and symbols. A signal light shows when power is on, and with double insulation a 3-wire outlet is not required.

Shpg Wt:35 lbs

SMITH-CORONA CLASSIC 12

Carrying case included

Your Cost

$169.95

HEAVY DUTY PORTABLE

12" Manual Typewriter	End of Page Indicator
12" Carriage	De-Jammer Key
88 Characters	Changeable Type
Office Size Keyboard	Erasure Table
Full Range Tabulator	Carry Case Included
Power Space Keys	Grey or Blue

Shpg Wt:30 lbs

CORONAMATIC 1200

manual carriage return

Your Cost

$249.95

Shpg Wt:35 lbs

Carrying case included

12" Wide Carriage
Electric Repeat Actions
Manual Carriage Return
Impression Control
Full Range Tabulation
Touch Select
Ribbon Cartridge System
Power Space Bar
Including Carry case
Changeable Type
White - Grey - White/Terra Cotta - Beige

Cartridge Ribbons — Quick and Clean. Eject at a touch. Switch quick from carbon film to holiday colors.

Film ribbon cartridge—$3.95

CORONAMATIC 8000

HEAVY DUTY OFFICE ELECTRIC
13" and 16" Carriage Typewriter

13" Fully Automatic Return
Full Range Tabulator
Heavy Duty for Heavy work
Changeable type bars
Electric Back Space
Repeat Keys
Impression Selector
Ribbon Cartridge System

Type Styles: Wide selection of distinctive executive and special purpose type faces.

Colors: Oyster White and Golden Brown.

Carrying cases optional— $55.00 each, 13" or 18" case

8000-13	*8000-16*
13" Carriage	*16" Carriage*
Your Cost	**Your Cost**
$395.00	**$414.00**
Retail:$515.00	**Retail:$542.00**

Shpg Wt:37 lbs

Pearlcorder™ X-01

Your Cost **$209.95**

A Striking New Look in Pocket Recorders

THE SMALLEST AND LIGHTEST MICROCASSETTE RECORDER IN THE WORLD!

No bigger than a pocket diary — the world's first Feather-Touch Electronic Controls!

Retail:$249.95 Shpg wt:5 lbs

Item No PCX01

Feather-Touch Controls
Tape mode, counter memory and quartz clock display controls are all feather-touch electronic type, set along the central panel with the Liquid Crystal Display window for the ultimate in operating ease and speed. Commands are put into action by a special control motor.

4-Digit Liquid Crystal Display
This window shows the tape counter which has a memory you can set to stop the tape at any desired position. Time display with AM or PM indication is shown instantly by pressing the 'Mode' button. 'REC' appears in the window as a reminder during recording.

Extra Fast Tape Changing
Tapes slide quickly into a holder for fast insertion. To remove the tape, just slide down the Eject button.

A Host of Ingenious Safety Features
The safety features that make X-01 so easy to use are numerous. When batteries need changing, Liquid Crystal Display flickers on and off. When you break the tabs to preserve special tapes, Record mode cannot be set, and an audible beep reminds you why. Whatever the mode, the X-01 shuts off silently at the end of the tape, returning the head to the 'Off' position and stopping the motor, but you can also set the audible Tape End Alarm as a reminder during recording.

Extra Features in the X-01

- Just one set of two "AA" penlight batteries powers both the recorder and the Liquid Crystal Display and quartz clock. A special function allows the clock to continue running while you change the batteries.
- You can use the earphone to monitor recordings, varying the monitoring volume with the Volume knob.
- Thanks to the energy saving design of the X-01, one set of alkaline batteries will last a whole 12 hours. Alternatively the X-01 will operate off a car battery or regular AC current (with adaptors).

Subject to availability.

Main Specifications

Tape: MICROCASSETTE™ (MC-60®)
Tracks: 2 tracks, 1 channel, monophonic
Drive System: Capstan Drive
Tape Speeds: 2 speeds: 2.4cm/s and 1.2cm/s
Speaker: Built-in 28mm dynamic speaker
Power Source: Rated voltage: 3V DC
Batteries: Two 1.5V "AA" penlight batteries
AC Adaptors: A307, A306
Car Battery Adaptor: AM301
Earphone Jack: 2.5mmø, Impedance 8Ω
External Microphone Jack: 2.5mmø, Impedance 500Ω ~ 2KΩ
Remote Control Jack: 2.5mmø
Practical Max. Output: 200mW (EIAJ) at 2.4cm/sec.
Overall Frequency Response:
300 — 6,000Hz at 2.4cm/sec.
300 — 4,000Hz at 1.2cm/sec.
Battery life: Approx. 12 hours with alkaline batteries
Dimensions: 4.7 × 2.4 × 0.7 in. (120 × 60 × 16.9mm)

Pearlcorder™ D120

Two Full Hours per Cassette

World's first Modular MICROCASSETTE Recorder

The Pearlcorder D120 The big difference is a choice of speeds. The regular 2.4 cm/sec. speed gives 1-hour per MICROCASSETTE operation. Simply flick the speed selector switch and the 1.2 cm/sec. speed produces a fantastic 2 hours—120 minutes—of recording/playback per MICROCASSETTE. Of course, the extra hour can be a real boon—for conferences and seminars, recording radio talks, listening to language tapes—in almost any application. And no matter which speed setting you use, you'll be impressed by the fine sound. And that should be no surprise considering Pearlcorder D120's powerful 50mm Dynamic Speaker and super sensitive internal Electret Condenser Microphone.

Anywhere you can take a paperback, you can take a D series Pearlcorder! Despite its large-sounding performance, it's so surprisingly slim and lightweight it slips unnoticed into a shirt pocket. The D series Pearlcorders are crafted to be held and operated easily with one hand. All control functions are instantly accessible and mistake-proof. Automatic shut-off at the end of the tape in either record or playback mode eliminates tape stretching and battery waste. An LED indicator makes sure battery charge and recording level are satisfactory.

Shpg wt:6 lbs

Retail: $249.95 — Your Cost **$214.95**

Basic Set Item No PCD120B

Cat. No.	Description
105012	Pearlcorder D120 2 Speed Basic Set
201061	(1) 2 Speed Microcassette Tape Recorder, D120
301060	(1) Microcassette, MC-60
601010	(1) Earphone, E-85
905050	(1) Carrying Case, CS-20
907010	(1) Wrist Strap, ST-1
401015	(2) Penlight battery, AA size
	Instruction Booklet
	Warranty and Registration Card

Shpg Wt:7 lbs

Retail: $299.95 — Your Cost **$249.95**

Standard Set Item No. PCD120S

Cat. No.	Description
105011	Pearlcorder D120 2 Speed Standard Set
201061	(1) 2 Speed Microcassette Tape Recorder, D120
706010	(1) Voice Actuator, DVA-1
301060	(3) Microcassette, MC-60
305010	(1) Cassette Head Cleaner, HC-T
601010	(1) Earphone, E-85
905052	(1) Carrying Case, CS-24
907010	(1) Wrist Strap, ST-1
401015	(2) Penlight battery, AA size
	Instruction Booklet
	Warranty and Registration Card

The MICROCASSETTE™
Developed by Olympus, the MICROCASSETTE is the key to truly pocketable recorders with the kind of sound quality that's fine for music as well as voice. Although they're just 1/4 the size of a "compact cassette," MICROCASSETTEs provide a full hour of recording or playback at the regular 2.4cm/sec. speed, or two hours (one hour per side) at 1.2cm/sec. And at 50 × 33.5 × 8mm, they're less trouble to mail and take up less storage space.

Shpg Wt:1 lb

Cassettes:
PCM C60 $3.50
PCM C60AD 4.50
PCH CT 3.50
PCM C60 (3) 9.95

Pearlcorder™ D130

Miracle Micro-Computer

Tucked neatly away inside the D130 is a highly sophisticated micro-computer with exciting new capabilities that expand the horizons of pocket tape recorder performance. Four easy access control buttons make function selection quick and simple.

Complete Set

Cat. No.	Description
106010	Pearlcorder™ D130 2 Speed/LCD, Complete Set
201070	(1) 2 Speed Microcassette™ Tape Recorder w/LCD, D130
301060	(3) Microcassette,™ MC-60
305010	(1) Cassette Head Cleaner, HC-T
601010	(1) Earphone, E-85
406034	(1) AC Adaptor, A-309
905060	(1) Carrying Case, CS-29
907010	(1) Wrist Strap, ST-1
401015	(2) Penlight battery, AA Size
401014	(2) Silver Oxide battery, 1.5 V
	Instruction Booklet
	Warranty and Registration Card

Your Cost **$294.95**
Item No. PCD130

A major advance in applied micro-computer technology, Pearlcorder D130 incorporates an integral, multi-function quartz digital display to extend MICROCASSETTE recorder versatility into entirely new fields. Besides a highly accurate tape counter, clock, timer and stopwatch, the LCD (Liquid Crystal Display) also provides memory and preset functions that give you direct, electronic control over the tape itself.

Other outstanding D130 features include 2-speed operation, PAUSE capability during all operational modes, PLAY capstan brake to keep tape taut, a redesigned EJECT button, relocated Power Jack—and a larger cassette window for still greater convenience. **Retail:$349.95 Shpg Wt:7 lbs**

Pearlcorder™ S202

FITS IN THE PALM OF YOUR HAND! Retail:$149.95

Full range of accessories—even can attach to a Hi-Fi! Instant, one-finger access to Play, Record, Stop, Rewind & Cue/Review/Fast Forward.

Your Cost **Complete Set $129.95**

Cat. No.	Description
109010	Pearlcorder™ S202 Complete Set
201100	(1) Microcassette™ Tape Recorder S202
301060	(1) Microcassette™ MC-60
601010	(1) Earphone, E-85
401015	(2) Penlight battery, AA size
	Instruction Booklet
	Warranty and Registration Card

Item No. PCS202
Shpg Wt:6 lbs

Main Specifications
Tape: MICROCASSETTE™ (MC-60®)
Tracks: 2 tracks, 1 channel, monophonic
Drive system: Capstan drive
Tape speed: 2.4cm/s
Recording length: 1 hour (30 min. per side) with MC-60
AC adaptor: 3V DC AC Adaptor A307 or A306
Batteries: 1.5V "AA" penlight battery x 2

Pearlcorder™ 2 SPEED TRANSCRIBER MODEL 1150

Complete Set Item No PC1150

Cat. No.	Description
151030	2 Speed Transcriber 1150 Complete Set
205030	(1) 2 Speed Transcriber 1150
603040	(1) Headset, E-87
702020	(1) Footswitch, RS-1
	Instruction Booklet
	Warranty and Registration Card

Your Cost **$294.95**

Shpg Wt:8 lbs

Specifications

Tape: MICROCASSETTE™ (MC-60®)
Tracks: 2 tracks, one channel, monophonic
Drive system: Capstan drive
Tape speeds: 2.4cm/sec. adjustable (+20%, –15%) or 1.2cm/sec. adjustable (+20%, –15%)
Playback:
Controls: Push type piano key controls, or foot control switch playback pedal
System: Built-in speaker or headset
Length: 1 hour (30 min. per side) or 2 hours (60 min. per side) with MC-60
Rewind: Push type piano key, 4 min. per side (MC-60)
Fast Forward: Push type piano key, 2 min. per side (MC-60)
Erasure:
Control: Push type piano key
4 min. both sides simultaneously in rewind mode (MC-60)
2 min. both sides simultaneously in fast forward mode (MC-60)
Erased width: Whole tape width
Accidental erasure prevention: Break off either or both safety lugs on sides of cassette
Tape counter: Mechanical, with reset button
Cassette removal: 2-stage eject button
Speaker: 77mm diameter built-in dynamic speaker
Jacks:
Headset jack: 3.5ø (EIAJ RC-702), impedance
Remote control switch jack: 6 pin Olympus Optical type
Dimensions: 5¾ × 8¼ × 3⅛ in. (148 × 223 × 80mm)

Retail:$319.95

Single Speed Pearlcorder™ TRANSCRIBER MODEL 1100

Item No PC1100

Your Cost **$229.95**
Retail:$269.95

Complete Set

Cat. No.	Description
151010	Transcriber 1100 Complete Set
205010	(1) Transcriber 1100
603020	(1) Headset E-82
702020	(1) Footswitch RS-1
	Instruction Booklet
	Warranty and Registration card

Shpg Wt:8 lbs

1100 COMPATIBLE WITH: ALL SONY, PANASONIC, SANYO, LANIER, AIWA, & DICTAPHONE MICROCASSETTE DICTATORS.

Specifications

Tape: MICROCASSETTE™ (MC-60®)
Tracks: 2 tracks, one channel, monophonic
Drive system: Capstan drive
Tape speed: 2.4cm/sec. adjustable ±20%
Playback:
Controls: Push type piano key controls, or foot control switch playback pedal
System: Built-in speaker or headset
Length: 1 hour (30 min. per side) with MC-60
Rewind: Push type piano key, 4 min. per side (MC-60)
Fast Forward: Push type piano key, 2 min. per side (MC-60)
Backspace: Foot control switch backspace pedal
Erasure:
Control: Push type piano key
4 min. per side in rewind mode (MC-60)
2 min. per side in fast forward mode (MC-60)
Erased width: Whole tape width
Accidental erasure prevention: Break off either or both safety lugs on sides of cassette

Two Speeds! Pearlcorder™ Microcassette Recorder— S802

Full complement of accessories... Normal or super-fast rewind speed Full Auto Off Function—switches off the motor at the end of the tape—no matter what the mode!

Item No PCS802

Shpg Wt:4 lbs

Your Cost **$99.95**
Retail:$119.95

Complete Set

Cat. No.	Description
110010	Pearlcorder S802 2 Speed Complete Set
201110	(1) 2 Speed Microcassette™ Tape Recorder S802
301060	(1) Microcassette MC-60
601010	(1) Earphone, E-85
905090	(1) Carrying Case, CS-38
907010	(1) Wrist Strap, ST-1
401015	(2) Penlight battery, AA Size
	Instruction Booklet
	Warranty and Registration Card

Extra Small, Extra Practical!

Main Specifications

Tape: MICROCASSETTE™ (MC-60®)
Tracks: 2 tracks, 1 channel, monophonic
Drive System: Capstan drive
Tape Speed: 2.4cm/sec. or 1.2cm/sec.
Recording Length: 1 hour (both sides) at 2.4cm/sec., 2 hours at 1.2cm/sec.
Speaker: Built-in 45mm dynamic speaker
Batteries: 1.5V "AA" penlight batteries × 2
AC Adaptor: 3V DC AC Adaptor A307 or A306
Battery Life: Approx. 8 hours with alkaline batteries
Size: 5.08 × 2.56 × 0.94 in. (129 × 65 × 24mm)

Pearlcorder™ (MICROCASSETTE™) ACCESSORIES INTERCHANGEABILITY CHART

	Description		Your Cost	• Can be used with D120	D130	S202	S802	1100	1150
MICROCASSETTES™	PC MC-60	Microcassette™	$ 3.50	•	•	•	•	•	•
	PC MC-60-AD	Microcassette™	4.50	•	•	•	•	•	•
	PC HC-T	Microcassette™	3.50	•	•	•	•	•	•
	PC MC-60(3)	Microcassette™ TRI-PAC	9.95	•	•	•	•	•	•
D SERIES	PC DM-1	Uni-directional Microphone	79.95	•	•				
	PC DAR-1	Remote Adapter	24.95	•					
	PC DRA-1	AM Tuner	39.95	•	•				
	PC DRA-2	FM Tuner	49.95	•	•				
	PC DVA-1	Voice Actuator	34.95	•	•				
ACCESSORIES	PC E-85	Earphone	2.95	•	•	•	•		
	PC E-83	Head set	10.95	•	•	•	•		
	PC RS-2	Footswitch	13.95	•	•	•	•		
	PC RS-1	Footswitch	21.95					•	•
	PC E-82	Headset	11.95					•	•
	PC E-87	Headset	11.95					•	•
	PC RS-3	Remote Control Switch	6.95	•	•	•	•		
	PC RB-1	Remote Control Switch	10.95	•	•	•	•		
	PC A-307	AC Adapter 3V	8.95	•	•	•	•		
	PC A-306	Universal AC 3V	14.95	•	•	•	•		
	PC AM-301	Car Adapter	17.95	•	•	•	•		
	PC AB-321	C-Battery Case	8.95	•	•	•	•		
	PC KA-232	Compaticord	3.95	•	•	•	•		
	PC KA-2P1	Compaticord w/RCA Plugs	7.95	•	•	•	•		
	PC ME-4	External Microphone	29.95	•	•	•	•		
	PC ME-5	External Microphone	49.95	•	•	•	•		

	Description		Your Cost	• Can be used with D120	D130	S202	S802	1100	1150
ACCESSORIES	PC SP-2	Speaker/Amplifier	29.95	•	•	•	•		
	PC TP-2	Telephone Pick-up	4.95	•	•	•	•		
	PC PA-1	Plug Adapter	1.95	•	•	•	•		
	PC PA-3	Plug Adapter	1.95	•	•	•	•		
	PC EP-1	Erase Plug	.95	•	•	•	•		
	PC ST-7	Shoulder Strap	3.45		•				
	PC CD-1	Dust Cover	.85					•	•
CASES	PC CS-9	Semi-hard Carrying Case	15.95						
	PC CS-16	Carrying Case w/Holster	4.95						
	PC CS-20	Carrying Case w/Holster	4.95	•					
	PC CS-21	Semi-hard Carrying Case	15.95	•					
	PC CS-24	Carrying Case w/Holster	5.95	•					
	PC CS-29	Carrying Case w/Holster	4.95		•				
	PC CS-32	Semi-hard Carrying Case	15.95		•				
	PC CS-31	Carrying Case w/Holster	4.95			•			
	PC CS-38	Carrying Case w/Holster	4.95				•		

ADD'L ACCESSORIES FOR X-01

A 306 AC Adaptor(100-240Volt) with AC plug adaptor PA2 $16.90
PA2 Plug Adaptor $1.95
ME4 Electret Condenser Microphone $29.95
SP2 Amplifier Speaker; an external speaker w/built-in amp. $
RB 1 Remote Control Switch fitted with 2AA batt. $10.95
E85 Earphone $2.95

Pearlcorder™

SANYO

SANYO TRC 8000A Combination Dictating & Transcribing Uses Standard Cassettes

Deluxe features include hand-held mike with built-in speaker and controls, playback speed control, digital counter, quick erase, tape end alarm and many others.

Item No SA8000A

FEATURES
- Lightweight mike with dictate/review control, built-in speaker, recording button and indicator.
- Playback speed control permits adjustment of playback to desired speed.
- Footswitch, earphones, tape end alarm and quick erase button also included.

Your Cost: **$239.95**

Retail:$359.95 Shpg Wt:14 lbs

High-efficiency office transcriber features pushbutton controls, 3-digit tape counter, quick erase button. Also includes speed control, earphones and foot switch.

Item No SA8010A

TRC 8010A Transcribing Unit (Standard Cassette)

Your Cost: **$189.95**

FEATURES
- Quick erase button protects your privacy by quickly blurring messages.
- Playback speed control adjusts playback to typing speed.
- Digital tape counter and cassette eject button for added convenience.
- Power indicator, foot switch and earphones also provided.

Shpg Wt:14 lbs

Retail:$269.95

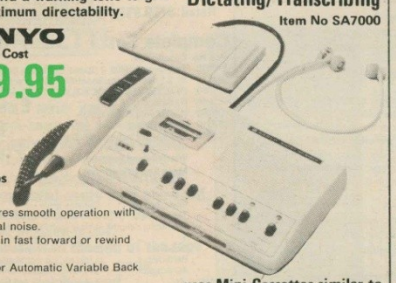
SANYO

Smooth, noise-free Solenoid operation featuring foot control for extra convenience. Sensitivity control and private listening functions are provided, along with quick erasing, tone adjustment and a warning tone to give the user maximum directability.

SANYO TRC 7000 "Memo Scriber" Combination Dictating/Transcribing

Item No SA7000

SANYO Your Cost **$239.95**



Shpg Wt:10 lbs

FEATURES
- Solenoid ensures smooth operation with low mechanical noise.
- Quick erasing in fast forward or rewind modes.
- Foot control for Automatic Variable Back Space.
- Dictation/Conference switch for adjustment of mike sensitivity.
- Mike/Speaker switch allows private listening.

uses Mini-Cassettes similar to Norelco 002

Retail:$354.95

Solenoid provides smooth operation, and the foot control makes repeated playback possible. Also includes power lamp, tape counter, volume and tone controls. Warning tone signals end of tape.

Shpg Wt:10 lbs

SANYO TRC 7070 "Memo Scriber" Transcriber

Item No SA7070

Your Cost: **$189.95**

FEATURES
- Noise-free Solenoid operation.
- Quick erasing in fast forward or rewind modes.
- Adjustable auto backspace is controlled by foot.
- Warning tone signals end of tape or operation without tape.

Transcriber-uses Mini-Cassettes similar to Norelco 002

Retail:$264.95

Sanyo TRC 5900

Uses MICRO-CASSETTES Compatible with Pearlcorder 1100, 1150 Transcriber

FEATURES • All metal construction.
- Ultra thin versatile right or left hand operation. • Alkali batteries provide 20 hrs.
- Super compact microcassette recorder 2-1/4"(W) x 4-7/8"(H) x 3/4"(D)
- 2-speed capstan driven recording system (either 2.4cm/sec. or 1.2cm/sec.)
- Quick erase system.
- Digital counter.
- Condenser mic.
- 10 position volume control.
- LED recording indicator.

Item No SA5900

Your Cost **$164.95**

Shpg Wt:5 lbs

Retail:$234.95

Item No SA3500

TRC 3500

MINI-CASSETTE DICTATOR Compatible with Sanyo TRC-7070

FEATURES
- Mini dimensions.
- Slide function control.
- Separate record switch.
- LED recording indicator.
- Built-in condenser mike.

Your Cost **$89.95**

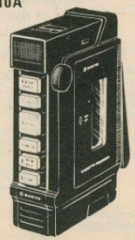
Retail:$114.95 Shpg Wt:5 lbs

TRC 1200 Dictator

Item No SA1200

RECHARGEABLE-uses STANDARD CASSETTES-compatible with Sanyo TRC-8010A

Shpg Wt:5 lbs



Your Cost **$99.95**

FEATURES
- Pocket-size.
- Rechargeable Ni-Cd power pack.
- Pushbutton controls.
- Built-in condenser mike plus external mike.
- Battery life indicator.

Dimensions 6-11/16"(H) x 4-9/16"(W) x 1-13/16"(D)

Retail:$139.95

TRC 1500 Dictator

Uses STANDARD Cassettes compatible with Sany TRC-8010A

Item No SA1500

FEATURES
- ALC (Automatic Level Control).
- Tiny talk-book using standard cassettes.
- One touch RECORD and REVIEW.
- Rechargeable Ni-Cd power pack and quick charger.
- Battery life indicator.
- Dictate/conf. switch.

Dimensions 3-7/8"(W) x 5-3/4"(H) x 1-3/8"(D)

Retail: $189.95

Shpg Wt: 5 lbs

Your Cost **$129.95**

CRAIG

Item No CR2706A

Model 2706A CASSETTE DICTATOR & Transcriber

- Variable speed control
- Single button to transfer to recording telephone calls
- LED power & telephone indication
- Input jack for use with optional telephone jack
- Private listening from combination microphone/speaker
- Dictate pause button—starts & stops tape in both record & play modes

- Footswitch controls transcribe/backspace/review operations
- Can control transcribe/backspace/review operations from footswitch.

CALL US FOR THE BEST PRICE!

Everything you could need in a Transcriber

- Review button auto. backspaces tape & transfers to play mode
- Quick erase button/erases during high speed rewind
- Sensitivity switch for private conference recording

Retail:$329.95

USES STANDARD TAPES

Shpg Wt:14 lbs

Item No CR2625

Model 2625 ULTRA-MINIATURE PORTABLE CASSETTE RECORDER

CALL US FOR BEST PRICE!

Retail:$199.95

Featuring . . .
- "Electronic Notebook®" for Pocket or Purse
- Uses Standard "Compact Cassettes"
- Warning Beep Tone at End of Tape in Record Mode
- Accurate Error Correction with Unique Record/Edit Button
- Review Mode for Convenient "Backspace" and Repeat
- Automatic Motor Shut-off at End of Tape Extends Battery Life
- Pause Button, Digital Tape Counter, and Built-in Condenser MIC
- Quick-change Rechargeable Ni-Cad Battery Pack
- LED (Light-Emitting Diode) Battery Indicator
- AC Adapter Included for Line Operation or Recharging

Shpg Wt:6 lbs

HAND-HELD CASSETTE RECORDER

Model 2629 Handheld CASSETTE RECORDER

CRAIG

Featuring . . .
- Automatic Shut-off at End of Tape
- Built-in Condenser Microphone
- Digital Tape Counter
- Automatic Battery Charging
- LED Recording Indicator

☐ Built-In Condenser Microphone ☐ Digital Counter ☐ Automatic End-of-Tape Shutoff ☐ LED Record Monitor and Low Battery Indicator ☐ Complete with Hand Strap, Case and AC Adapter

Your Cost **$59.95**

Item No CR2629 Shpg Wt:5 lbs

Model J500 CRAIG MINICASSETTE RECORDER

Item No CRJ500

Your Cost **$79.95**

Featuring...
- One hand operation
- End-of-tape warning tone in record mode
- LED record/battery indicator
- Review mode for convenient back space and repeat
- AC Adapter included
- ABC (automatic battery charging)

Shpg Wt:5 lbs

CRAIG

Model J100 PORTABLE CASSETTE RECORDER

Your Cost **$32.95**

Featuring...
- Built-In condenser microphone
- Automatic battery charging (ABC)
- Automatic Level Control (ALC)
- Automatic shut-off
- AC adapter included

Shpg Wt:5 lbs Item No CRJ100

CRAIG

Item No CRJ101

Model J101 PORTABLE CASSETTE RECORDER

Your Cost **$42.95**

Featuring...
- Built-In condenser microphone
- ABC and ALC
- Automatic Shut-off
- Built-in AC operation
- LED record/battery indicator
- Three-digit tape counter

Shpg Wt:7 lbs

Model J102 CRAIG DeLuxe FULL-FUNCTION Portable Cassette Recorder

Your Cost **$49.95**

Featuring...
- Built-In condenser microphone
- ABC and ALC
- Automatic Shut-off
- Built-in AC operation
- LED record/battery indicator
- Three-digit tape counter
- **Tone Control**
- **Pause Control**
- **Cue and Review Function**

Item No CRJ102 Shpg Wt:6 lbs

Model J103A CRAIG THINLINE CASSETTE RECORDER

$79.95 Your Cost

Item No CRJ103

- Cue & review
- One button recording
- Pause control
- Go directly from play to record with Easy-edit
- Tape counter
- Auto. shutoff at tape end
- Built-it electret mike
- Separate volume & tone controls
- ABC(Automatic Battery Charging)
- AC adaptor included
- Battery & record. level LED

Shpg Wt:6 lbs

ACCESSORIES FOR CRAIG DICTATING MACHINES

CR 8108	Extra Ni Cad batteries for 2625	16.95
CR Z380	Separate battery holder for 2625	7.95
CR 8108	Extra Ni Cad Battery for 2625	19.95
CR Z382	Extended time battery compartment	19.95
CR 9232	Extra AC adaptor/charger	7.95
CR Z301	40 minute mini-cassette	3.95
CR Z100	Sensitive Mini Condensor Microphone w/built-in pre Amp, remote control tie clip holder,& desk stand for conf. use	24.95
CR 9501	Telephone pick up coil	7.95
CR Z301	40 minute long mini cassette for J500	3.95
CR 9235	AC adaptor for J500	7.95
CR 8105	Nickel Cadnium cell for J500	2.79

Item No CRI2000

PS 2000 IMA/CRAIG.

AM/FM STEREO Receiver & Stereo Cassette Recorder/Player

Your Cost **$149.95**

Featuring...
- Illuminated slide rule tuning
- Built-in front loading Stereo Cassette Recorder/Player with automatic stop
- Digital tape counter
- Full featured 24-hour LED clock
- Wake-to-music/alarm
- Snooze/sleep control
- Two built-in speakers
- Complete with microphones

Shpg Wt:20 lbs

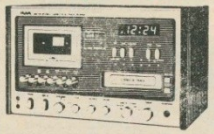
Item No CRI2200

TWO IN ONE—FANTASTIC UNIT! PS 2200

AM/FM/FM-Stereo Receiver with Digital Frequency Tuning/Display, Stereo Cassette Recorder/Player & 8-Track Player

Your Cost **$199.95**

Featuring...
- Digital Frequency Tuning/Display on AM and FM
- Built-in front loading Stereo Cassette Recorder/Player with automatic stop
- Digital tape counter
- 8-Track Player with automatic viscous damped eject
- 24-hour LED Clock
- Two built-in speakers



Shpg Wt:20 lbs

Call us for the best price! **PS 2500 Silvertone Accent**

CRAIG J441 Portable Stereo Cassette Recorder with AM/FM/MPX Receiver

Item No CRJ441

Your Cost **$179.95**

- ★ Built-In Stereo Electret Mics
- ★ Standard Headphone Jack
- ★ Mono, Stereo, or Wide Panorama Sound
- ★ LED Metering of Recording Level, Radio Tuning, and Battery Cond.
- ★ Inputs for Mics and Record Player
- ★ 3-Way AC/DC/Battery Power
- ★ Three-Digit Tape Counter
- ★ Sleep Mode
- ★ Pause Button
- ★ Record Directly from Radio
- ★ ABC and ALC

Shpg Wt:30 lbs

IMA/CRAIG.

CRAIG J425 Portable Cassette Recorder with AM/FM Radio

Item No CRJ425

Your Cost **$99.95**

- ★ Built-In Electret Condenser Mic.
- ★ Two-Way Speaker System has Woofer and Tweeter
- ★ Records Directly From Radio
- ★ Built-In AC/Battery Operation
- ★ ABC and ALC
- ★ Three-Digit Tape Counter
- ★ Sleep Mode
- ★ Telescopic Antenna for FM (and Built-In Ferrite Bar for AM)
- ★ Automatic End-of-Tape Shutoff
- ★ Pause Button
- ★ AC Adapter Included

Call us for the best price! Shpg Wt:25 lbs

CRAIG J423 Portable Cassette Recorder with AM/FM Radio

Item No CRJ423

Your Cost **$59.95**

- ★ Built-In Electret Condenser Microphone
- ★ AC/Battery Operation
- ★ Automatic Battery Charging (ABC)
- ★ Automatic Level Control (ALC)
- ★ Automatic Shutoff at End-of-Tape
- ★ Telescopic Antenna for FM (and Built-In Ferrite Bar for AM)
- ★ AC Adapter Included

Shpg Wt:23 lbs

IMA/CRAIG.

CRAIG J424 Compact Portable Cassette Recorder with AM/FM Radio

IMA CRAIG.

Your Cost **$89.95**

Shpg Wt:20 lbs

- ★ Built-In Electret Condenser Mic.
- ★ Cue and Review
- ★ Automatic Shutoff System
- ★ Sleep Mode
- ★ Digital Tape Counter
- ★ Jacks for External Remote-Control and Other Accessories
- ★ ABC and ALC
- ★ Built-In AC or Battery Operation
- ★ Telescoping Antenna
- ★ Pause Button
- ★ AC Adapter Included

CALL FOR BEST PRICE Item No CRJ424

CRAIG J481 Portable Stereo Cassette Recorder with AM/FM/MPX Receiver Four Band Receiver FM/AM/SW1 & SW2 International AC 110/220 volt -DC 9 volt or internal batteries

Item No CRJ481

Your Cost **$199.95**

- Standard headphone jack for private listening
- Mode switch allows choice of: mono, stereo, wide panorama sound
- Sleep Mode
- Pause Button
- LED metering/recording level/radio tuning/battery condition
- Input for stereo mike & stereo record player.
- Built-in stereo electret microphones

Shpg Wt:33 lbs

CRAIG ST900 Stereo Cassette Player/Recorder with AM/FM/FM Stereo—TV —Weather Band Radio and 8-Track Player

Shpg Wt:34 lbs

$174.95 Your Cost

- Loudness compensation
- Bass & treble tone control
- Built-in stereo condenser microphones
- Auto. record level control
- Beat canceller
- Stereo headphone jack
- Auxiliary jacks
- 5-stage LED signal strength meter
- Lighted 8-track program indicators
- Onputs for external mikes
- Takes 6 "D" batt. or built-in AC cord
- Built-in twin 4" full range stereo speakers
- 2 watt per channel stereo amplifier

Item No CRI900
- Input for external mikes
- 3-digit tape counter

CRAIG M100SE NEW, POWERFUL LANGUAGE TRANSLATOR AND INFORMATION CENTER DOUBLE CAPACITY— appx. 2,000 words

A personal interpreter when you travel
A valuable learning aid when you study
A spelling and phonetic pronunciation guide
A calculator and metric converter
References three languages at once

Comes complete with double-capacity English capsule
AC Adapter included

Item No CRM100SE
Shpg Wt:4 lbs
Craig M100SE **$119.95**
Your Cost

CHOOSE FROM THIS LIBRARY—
English, Spanish, Italian, Dutch, Russian, Danish, Portuguese, Finnish, French, German, Arabic, Japanese, Chinese, Norwegian, Swedish,

Phoenetics
Nutrition Guide and Calorie Counter
Bar and Wine Guide
Business Terms

Las Vegas Games (Poker & Blackjack)
Word Games (Anagram, Hangman and Scrambled Translation)

THE REVOLUTIONARY CRAIG M100 LANGUAGE TRANSLATOR AND INFORMATION CENTER IS HERE!

Here is the answer to many people's dreams. A quick and easy translator for travelers, a wonderful guide to foreign restaurant menus, a marvelous way to communicate with non-English speaking workers, a convenient way to shop in ethnic neighborhoods, a faster, fun-filled way to learn a foreign language. Plus an inexhaustible information center featuring a built-in calculator and metric conversion tables.

Shpg Wt:4 lbs
CRAIG M100
Item No CRM100
$99.95
Your Cost
Craig M100 with English capsule and AC Adapter/Charger

Translates 15 Languages —up to 3 at a time!

2000 WORDS

Optional CRZ 201 110/220 volt charger $9.95

The Craig translator & information center.

SPECIFICATIONS M100

Display	
Type	Blue fluorescent
Number of Characters	16
Alphabetical Characters	A-Z
Numerals	0-9
Math Symbols	+ − x ÷ =
Punctuation Marks	* $, / ' ? .
Keyboard	
Type	Feather-touch
Printing Keys	28
Function Keys	15

Functions

Translation	Translates word or phrase into another language
Search	Searches for alternate meanings, corrects spelling errors, speeds entry of long words, reviews vocabulary alphabetically
Learn	Reviews vocabulary by frequency of usage or by category
Phrase	Displays selected phrase at the touch of a single key
Rotate	Causes words to move across the display instead of appearing one at a time
Shift	Selects numerals and punctuation marks
Hold	Allows entry of proper names, etc.
External	Changes "programming" of the computer from translation to calculator (or other mode, with optional capsules)

Interchangeable Memory	
Type	Plug-in Memory Capsule
Number of Capsules	3
Accessories Supplied	Z200 AC Adapter, M500 English Memory Capsule, Carrying Pouch, Owner's Manual
Accessories Available:	Z201 AC Adapter for 120/240 V, 50/60 Hz; Memory Capsules (see next column)
Built-in Memory	Metric Conversion and Calculator Modes
Dimensions (WxHxD)	(6⅛ x 1⅜ x 3⅞ in)

Power	
Battery	6 V (Four AA cells)
Battery Type	Nickel Cadmium or Alkaline
Alternating Current	120 V, 60 Hz
Automatic Battery Charging (NiCd cells only)	Built-in

WARRANTY Limited one-year warranty

* **Makes language learning easy ...a terrific vocabulary builder.**

* **Invaluable to travelers in foreign lands.**

* **Information capsules include a Nutrition Guide & Calorie Counter.**

CAPSULE SPECIFICATIONS
Dimensions (WxHxD) (⅞ x 1⅜ x ⅜ in)
Capsule Type
Plug-in integrated circuit ROM (read-only-memory)
Language Vocabulary
Standard Capacity Approx. 1000 words
Double Capacity Approx. 2000 words

Capsules Available:		YOUR COST
CR M530 ENGLISH (Double-Capacity)		49.95
CR M531 SPANISH (Double-Capacity)		49.95
CR M532 ITALIAN (Double-Capacity)		49.95
CR M533 FRENCH (Double-Capacity)		49.95
CR M534 GERMAN (Double-Capacity)		49.95
CR M535 JAPANESE (Double-Capacity)		49.95
CR M500 ENGLISH		24.95
CR M505 SPANISH		24.95
CR M510 ITALIAN		24.95
CR M515 FRENCH		24.95
CR M520 GERMAN		24.95
CR M525 JAPANESE		24.95
CR M540 NORWEGIAN		29.95
CR M541 DUTCH	Coming soon:	29.95
CR M542 ARABIC	Deutch Capsule	29.95
CR M543 RUSSIAN	$29.95	29.95
CR M544 CHINESE	Greek Capsule	29.95
CR M545 PORTUGUESE	$29.95	29.95
CR M546 DANISH		29.95
CR M547 SWEDISH		29.95
CR M548 FINNISH		29.95
CR M550 PHONETICS		29.95
CR M551 DIET GUIDE (Calorie Counter)		29.95
CR M561 BAR AND WINE GUIDE		19.95
CR M562 LAS VEGAS		19.95
CR M563 WORD GAMES		19.95
CR M580 BUSINESS TERMS		49.95

MATTEL ELECTRONICS™ NEW THOROUGHBRED HORSE ANALYSER- THE BEST WAY TO BEAT THE PONIES!

This amazing **Computer** has been tested by an independent research organization, using available daily Racing Form data from 1,000 thoroughbred races. . .
COMPUTER-FAST. . .COMPUTER-ACCURATE. . .COMPUTER-SMART Handicapping. . .
Although we cannot guarantee that you will achieve similar results, these documented tests indicate among other statistical possibilities, that:

$119.95 Your Cost

90% of the time one of the Mattel computer's THREE highest rated horses finished FIRST, SECOND, or THIRD
53% of the time ONE of the THREE highest rated horses FIRST. . .
51% of the time the highest rated horse finished FIRST, SECOND or THIRD. . .
22 % of the time the highest rated horse finished FIRST. . .

FREE WITH YOUR PURCHASE OF ONE MATTEL THOROUGHBRED HORSE ANALYSER copy of the tests confirming the above statements by Mattel Electronics regarding the Horse Analyser.

PUNCH IN THE NUMBERS and the Horse Race Analyser will do the rest.

USE IT AT HOME OR TAKE IT TO THE TRACK. . . The Thoroughbred Horse Race Analyser is programmed for 3 year or older horses running on a fast dirt or firm turf track, at distances of 6 furlongs or longer.
It is not designed to handicap harness races (trotters or pacers) quarter horse races, dog races or "maiden" races.

Liquid Crystal Display—automatically asks you questions in the right order.
Computer Analysis based on race conditions, past performances and speed
Computerized handicapping using DAILY RACING FORM information.
Item No. ML1670 Shpg Wt: 5 lbs
You punch in the numbers, the Horse Race Analyser does the hard part. Handicap a thoroughbred race in 20 minutes.
Use 9 volt Duracell or other high-quality alkaline battery(battery not included). Comes fully assembled with carrying case, scratch pad, pen, handicapping booklet and instruction card. (You can order your battery from us!).

Item No. ML2442 **MATTEL Electronics**
"Las Vegas" Pinball Machine Heavy Duty
It's got all the sounds
It's got all the action...
It's got the unique Pit Boss™...
$475.00
Retail:$695.00
90 days service in your home or office by General Electric
Shpg. Wt: 180 lbs

FREE WITH THE PURCHASE OF $500.00 or more!

VIP Vacations "HOLIDAY FOR TWO CERTIFICATE"

Subject to all terms & conditions listed on the certificate.

Item No. ML1080
MATTEL/ELECTRONICS
MATTEL ELECTRONICS® Brain Baffler™ GAME
NEW!
$49.95 Your Cost
The electronic wizard that plays games with human minds! Eight different games in one! Match wits with an opponent or against the built-in thinking computer. Operates on 9-volt transistor battery or Mattel Electronics® AC adapter, not included.

Item No. ML1081
MATTEL ELECTRONICS® Horoscope Computer GAME
NEW!
Your Cost **$49.95**
Unlock the secrets of the stars. Computer answers based on astrological calculations. You decide what to do. Personal forecasts or compatibility readings. Valid for over eight years . . . June 1, 1979 — December 31, 1987. Operates on 9-volt transistor battery or Mattel Electronics® AC adapter, not included.

POPULAR HAND-HELD ELECTRONIC GAMES—
MATTEL TOYS
Popular hand-held electronic games—with these quality features—PRECISION LENS—ELECTRONIC PRINTED CIRCUIT—SELF-CONTAINED, NO T.V. SET NEEDED—HI-SPEED LED DISPLAY—REALISTIC SOUND EFFECTS (where applicable)—FUN FOR THE WHOLE FAMILY!
Battery not included (9 volt) Optional AC Adaptor—$7.95 Shpg Wt:3 lbs per game

NEW FROM MATTEL—
INTRODUCING
Item No. ML1669
COMPUTER GIN™
NEW!
♠♣♥♦ **$59.95**
It's not easy. Your opponent is a master of the game! After each round, press a button and compare the computer's hand with your own. Computer keeps a running tally of the score. Everything you need for challenging game after game of Gin Rummy is right in this trim, handheld unit. No TV hook-up necessary! It's you against the computer in a total contest of card-playing skill. Game operates on 9-volt alkaline transistor battery or Mattel Electronics® AC Adaptor.

SOCCER 2
Item No. ML1645
Now the Pro version of the international sport takes electronic soccer to new heights of skill, challenge, and fast-paced fun! Four levels of speed and complexity allow spirited competition between experienced and beginning players!
NEW! **$36.95**

NEW! Item No. ML1645
BASKETBALL 2
It's the all pro version of the original basketball game. New features bring it into real action — like the 3 point play, fouls & foul shots, 3 second violations and three different computer-controlled defensive options--man to man, zone and press. Plus there are now two offensive players with passing between them. It's your ball! Clock's ticking. Move your player across the court. Fake left! Dribble right! Pass! Shoot! Score! Four different skill levels, plus digital game clock and scoring. Authentic sound simulations
$36.95

FUN FOR THE WHOLE FAMILY. Item No. ML2937
The World of ARMOR BATTLE™ **$24.95**
Enemy ahead! You are the tank commander! Maneuver through hidden minefields to reach the target. When in range, fire quickly. Target destroyed! But watch out! The enemy tank can fire back and put you out of action

Item No, ML1771
The World of BATTLESTAR GALACTICA™ SPACE ALERT™ **$24.95**
A Mattel Electronics™ exclusive! Based on the hit television space series "Battlestar Galactica™" viewed by millions each week, this electronic game puts all the fun and excitement of space combat right in the palm of your hand. You defend the Battlestar against the computer-controlled Cylon Raider™ attack. Here come the Cylons! Launch your defensive Laser Torpedos and intercept their attack!

The World of AUTO RACE **$24.95**
The original self-contained electronic game from Mattel Electronics and a continuing success. The thrill of high-speed racing right in the palm of your hand. The race is on! Computer-controlled cars coming straight at you. Steer your car through oncoming traffic while the clock ticks away the seconds! Shift gears to gain speed! Beat the clock and hear the "victory" sound.
Item No. ML9879

The World of SUB CHASE™ **$24.95**
It's exciting action on the high seas right in the palm of your hand. Sonar contact! Computer-controlled enemy submarine ahead! You control the destroyer. Maneuver your ship and listen for the enemy submarine. Launch depth charge attack. Sink as many subs as you can. But remember the sub's torpedoes are running. You have to avoid them or go down to Davey Jones' Locker!
Item No. 2938

CALCULATOR BATTERIES— HIGH POWER HEAVY DUTY MANGANESE
MAXELL— THE TOP OF THE LINE
Item No. MXSUM3L
"AA" 1.5 volts/4 per pack $3.50 per pack
Item No. MXS006PS
9 Volt battery 1.19 / each
maxell BATTERY PRODUCTS DIVISION

MATTEL ELECTRONICS® **Soccer GAME** **$29.95**
Dribble downfield against swarming computer opponents. You find an opening. Kick! The goalie knocks it back on the field. You get it, fake around the defense and shoot again. Score! Operates on 9-volt battery, not included.
Item No. ML1052

MATTEL ELECTRONICS® **BASEBALL GAME** Item No. ML2942
Bat against an incredible computer defense. Computer fires a fast ball. Strike one! Now a curve. Strike two! Next pitch — belted to right! A triple! You challenge the throw and dig for home — safe! Operates on 9-volt battery, not included.
Your Cost **$36.95**

MATTEL ELECTRONICS® **BASKETBALL GAME** Item NO. ML2437
You control the offense; the built-in computer controls the defense. Comes fully assembled with 24-second clock, automatic digital scoreboard, built-in sound effects. Run up the score! Powered by 9-volt battery, not included.
Your Cost **$29.95**

$29.95 Item No. 2946
MATTEL ELECTRONICS® **HOCKEY GAME**
Your opponent weaves the puck through computer defensemen. He's called for charging — Penalty Box! Now you've got the power play. Skate behind the goal. Come out shooting. It's blocked away! You're in position. Shoot again — score! Operates on 9-volt battery, not included.

Your Cost **$36.95**
FOOTBALL II GAME
All-Pro version of Football I. Your opponent kicks off. First down, you're back to pass. Computer blitz! Scramble left, right back — receiver's open! Unload a bomb. Oh, no . . . intercepted! Operates on 9-volt battery, not included.
Item No. ML1050

$29.95 Your Cost
MATTEL ELECTRONICS® **FOOTBALL I GAME**
Item No. ML2024
You call the plays against the tough computer defense. First down . . . thrown for a loss! Now fake, weave, sprint into the open . . . touchdown! Computer scoreboard simulates cheers and records all the action. Operates on 9-volt battery, not included.

INTELLIVISION™
MATTEL ELECTRONICS™

Your Cost
$239.95
Personal Computer MODEL 2609

Your Cost
$419.95
Keyboard Component MODEL 1149

Personal Computer

Intellivision . . . The Future Today!

It plays more than super action games like NFL Football, Major League Baseball, NBA Basketball, Las Vegas Blackjack and Poker, and ABPA Backgammon.

INTELLIVISION can also help you do your income taxes with the J.K. Lasser Institute program. Exercise your family into shape with the Jack LaLanne Physical Conditioning program. Even improve your eating habits with Dr. Art Ulene's Weight Loss program.

There's a whole library of INTELLIVISION programs* for your family's enjoyment. From learning Conversation French to Speed Reading to Stock Analysis.

Introducing the computer based system that can change your family's life.

Retail:$295.00 MODEL 2609

The Master Component

Designed in a contemporary style of brushed metal with simulated wood-grain finish. Two hand controllers nest neatly in the top with all wires and cables stored out of sight when not in use. This gives the unit a sleek, "clean" appearance compatible with any room decor. Inside is a powerful 16-bit microprocessor, a full range of simulated sound effects including three-part harmony music, a broad color palette, and an extraordinarily high level of resolution.

The game cartridges offer a wide variety of challenging play that generate exciting realism. Many of these games carry impressive licenses like the NFL, NBA, and even The Electric Company. New cartridge introductions will provide ongoing game play value.

Item No. MT2609 **Shpg Wt:25 lbs**

Intelligent Television

"INTELLIVISION" Accessories List

		Your Cost
HARDWARE		
MT2609	INTELLIVISION W/Las Vegas Blackjack & Poker	$249.95
MT1149	INTELLIVISION Keyboard Component	419.95
CARTRIDGES		26.95
MT2610	NFL Football	
MT2614	Major League Baseball	
MT2615	NBA Basketball	
MT1114	NHL Hockey	
MT1113	Auto Racing	
MT1815	NEW! NASL Soccer	
MT1814	New! Tennis	
MT1817	NEW! U.S. Ski Team Skiing	
MT1816	New! PGA Golf	26.95
MT1819	NEW! Boating	
MT2611	Las Vegas Blackjack & Poker	
MT1118	Las Vegas Roulette	
MT1123	Thoroughbred Horse Racing	
MT1121	Tank Battle	
MT2612	Space Battle	
MT1818	New! Sea Battle	
MT1119	ABPA Backgammon	
MT1120	Checkers	
MT2613	Electric Co. Math Fun	
MT1122	Electric Co. Word Fun	
CASSETTES		
MT1147	Conversational French	49.95
MT1146	Jack LaLanne's Physical Conditioning	35.95
MT1231	Dr. Art Ulene's Weight Loss Program	
MT1148	Speed Reading	
MT1145	NEW! J.K. Lasser's 1980 Tax Preparation	35.95
MT1151	NEW! Stock Analysis	
MT1153	NEW! Jeanne Dixon	
MT1850	Guitar Lessons	

Retail:$495.00 MODEL 1149

The Keyboard Component*

Adding the Keyboard Component to the Master Component dramatically opens the Intellivision system to a wide variety of educational and informational uses. It places a multitude of home computer applications — inputs and outputs, both digital and audio — at your fingertips! And, no programmer skills or computer language are needed!

Availability Early 1981 **Item No. MT1149**

Intelligent Television

The Intellivision™ Intelligent Television System

Intellivision is a system of modularized hardware components and a broad spectrum of software that offers consumers benefits for now and in the years to come.

The heart of Intellivision is the Master Component. By itself it provides a variety of entertainment and game play through the use of preprogrammed ROM game cartridges. These are true to life in visual appeal, simulated sound effects, and variability. Games that challenge both mind and body:

Sport games • Las Vegas games • Strategy games • Action games • Children's Learning Fun.

The addition of the Keyboard Component expands the system's capabilities to provide the added benefits of programs in:

Family financial and tax management • Physical health and well-being • Self-education through the use of pre-programmed software featuring an expert consultant who actually talks to the consumer. The user responds in English using a familiar typewriter-like keyboard. There is no requirement for knowledge of a computer language. Truly, a computer for the home. **Shpg Wt:26 lbs**

VIDEO COMPUTER SYSTEM FROM ATARI

CX 2600

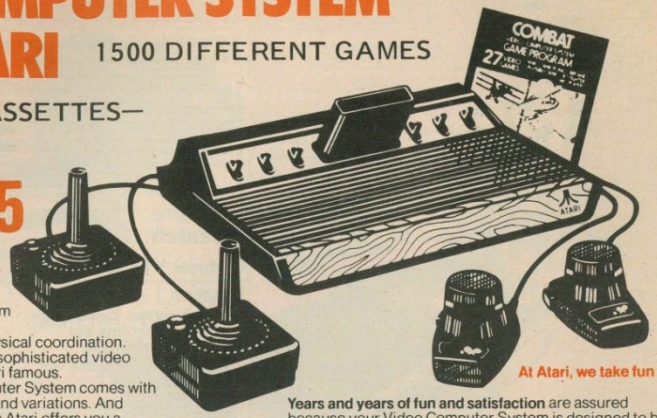
1500 DIFFERENT GAMES

NOW WITH 36 CASSETTES—

Item No. ATCX2600

Your Cost
$149.95

Shpg Wt: 10 lbs



Atari welcomes you aboard.
Get ready for real excitement from your home TV. Have fun while you sharpen your mental and physical coordination. You'll play rousing, challenging, sophisticated video games, the games that made Atari famous.

For starters, your Video Computer System comes with Combat, with 27 thrilling games and variations. And that's just the beginning, because Atari offers you a library of the greatest video games ever invented. So... **Strap yourself down,** take a deep breath, and get ready. Be a flying ace, a tennis star, and a space pioneer, all in one afternoon. You'll have thrill after thrill, whether you're in the thick of a dogfight, screeching around a racetrack, or dodging asteroids in an alien galaxy. Most of all, you're going to have fun. Atari fun.

ATARI®

At Atari, we take fun seriously

Years and years of fun and satisfaction are assured because your Video Computer System is designed to be as up-to-date next year as it is today. With interchangeable controllers and cartridges so you can enjoy the full range of Video Computer System games. With difficulty options so the games get better as you get better. With crisp bright color (on color TV) and incredible, true-to-life sound effects. With special circuits to protect your TV. And, especially, with famous Atari quality.

YOUR COST	$19.95	GAME PROGRAM CARTRIDGES
ATCX2601		COMBAT
ATCX2602		AIR-SEA BATTLE
ATCX2604		SPACE WAR
ATCX2605		OUTLAW
ATCX2606		SLOT RACERS
ATCX2607		CANYON BOMBER
ATCX2612		STREET RACER
ATCX2618		3-D TIC-TAC-TOE
ATCX2621		VIDEO OLYMPICS
ATCX2622		BREAKOUT
ATCX2623		HOME RUN
ATCX2624		BASKETBALL
ATCX2625		FOOTBALL
ATCX2626		MINIATURE GOLF
ATCX2627		HUMAN CANNONBALL
ATCX2628		BOWLING
ATCX2629		SKY DIVER
ATCX2630		CIRCUS ATARI
ATCX2633		NIGHT DRIVER
ATCX2634		GOLF
ATCX2641		SURROUND
ATCX2642		A GAME OF CONCENTRATION (formerly HUNT'N'SCORE)
ATCX2643		CODEBREAKER
ATCX2644		FLAG CAPTURE
ATCX2651		BLACK JACK
ATCX2661		FUN WITH NUMBERS (formerly BASIC MATH)
ATCX2662		HANGMAN
ATCX2664		BRAIN GAMES
YOUR COST	$27.95	
ATCX2613		ADVENTURE
ATCX2631		SUPERMAN
ATCX2632		SPACE INVADERS
ATCX2652		CASINO
YOUR COST	$36.95	
ATCX2611		INDY 500 (packed with driving controllers)
ATCX2617		BACKGAMMON
ATCX2620		BASIC PROGRAMMING
ATCX2645		VIDEO CHESS

ACCESSORY CONTROLLERS

Shpg Wt: 1 lb

YOUR COST
19.95

ATCX20-01	DRIVING CONTROLLER PAIR
ATCX30-04	PADDLE CONTROLLER PAIR
ATCX40-04	JOYSTICK CONTROLLER PAIR
ATCX50	KEYBOARD CONTROLLER PAIR

YOUR COST
$9.95

ATCX40	JOYSTICK CONTROLLER SINGLE
ATCO10472	A C ADAPTOR
ATCO10325	SWITCH BOX

ATARI®

A Warner Communications Company

Slow motion
Stop action
Single frame advance
Double speed Picture Search
Plus pause, channel change and all primary VCR functions. 20-foot cord included.

RCA SelectaVision 650

This amazing new SelectaVision remote control feature lets you review recorded material in a fraction of the time it would normally take. You can scan in either direction—forward or reverse.

Your Cost **$1098.00**

High-Speed Picture Search by remote control

- Up to 6 hours recording on a single cassette
- Picture Search—plus variable-speed special effects
- Full-function remote control—pause, picture search, special effects and channel change
- 14-day electronic programmer
- Electronic touch-button VHF/UHF tuning
- Automatic tape rewind
- Tape counter with memory switch
- Automatic TV/VCR switching
- Soft-touch function controls

No. RCVET650

SelectaVision 650 features a Super Long Play (SLP) speed that extends by 50% the recording time you get on a video cassette. Thus you can get up to three hours recording time on a standard VK125 cassette and six hours on a VK250 cassette. Standard Play (SP) and Long Play (LP) are also included so that any VHS-type cassette can be played, regardless of the speed at which it was recorded. And it's not necessary to remember which speed you used to record. The VCR automatically selects the correct playback speed.

Shpg Wt:47 lbs
Retail:$1450.00

A remarkable microprocessor circuit and special timer display let you program the shows you want to watch *up to two weeks in advance.*

6-Hour Video Cassette Recorder

SelectaVision 250

6-Hour Video Cassette Recorder with 24-hour timer & Picture Search

- Up to 6 hours recording on a single cassette
- Picture Search reviews recorded material at nine times normal speed
- Built-in 24-hour electronic start/stop timer
- 3-function remote control—pause/picture search/channel change
- Electronic touch-button VHF/UHF tuning
- Automatic tape rewind
- Tape counter with memory switch
- Automatic TV/VCR switching
- Soft-touch function controls

Your Cost **$869.95**
Retail:$1100.00

with Picture Search

Model VET250 No. RCVET250 Shpg Wt:45 lbs

CC007 No. RCCC007

RCA Color Video Camera with 6:1 power zoom lens and electronic viewfinder

- f1.4—6:1 power zoom lens
- Electronic viewfinder
- Automatic fade control
- Boom microphone

Your Cost **$929.95**

- Electronic viewfinder shows exactly what you're shooting, even as you zoom—features a built-in B&W monitor for instant replay.
- Automatic fade control gives you professional-looking scene transitions.
- Deluxe boom microphone telescopes out to 7½ inches.
- Standby switch conserves power during operation with portable recorder.
- Macro focus to within 4 inches of subject.
- Automatic iris adjusts to available light conditions.
- Indoor/outdoor color temperature switch adjusts to the correct lighting situation.
- Built-in automatic white balance system electronically adjusts color levels.
- Easy-grip handle with built-in zoom control and VCR pause button.
- Optional compact power supply with built-in 500 watt AC outlet for table model VCR hook-up.

Shpg Wt: 15 lbs

Retail:$1250.00 RCA

CC007 color camera with professional "mini-cam" look and lightweight design, flip-over electronic viewfinder, 6:1 power zoom lens, fade in/out button, boom microphone, and easy-grip handle.

RCA Portable Video Cassette Recorder VEP150 6 hr capability

Retail:$1250.00
$829.95
Your Cost

Shpg Wt: 30 lbs

RCA 7 Day Tuner/Timer Module for portable VCR TEP1400

Retail:$499.00
$359.95
Your Cost

Shpg Wt: 30 lbs

Portable VCR System RCA

Catch the action—complete with sound—wherever you go! RCA's VEP150 Portable Video Cassette Recorder has a built-in rechargeable battery so you can tape outdoors, indoors—anywhere. You can record from your car's cigarette lighter socket, using optional DC power cord. Or you can record on AC house current with RCA's optional TEP1400 Tuner/Timer Module.

VEP150 Recorder weighs just 15.6 lbs. Rechargeable battery provides up to 1½ hours recording time on a single charge when used with RCA's CC005 or CC007 color camera.

No. RCVE150

TEP1400 Tuner/Timer lets you tape TV shows off the air (for up to six hours on one cassette when used with the VEP150 Recorder). Built-in 7-day electronic programmer allows you to program as many as five different shows you want to watch up to a week in advance. Tuner/Timer also operates the VEP150 Recorder on AC house current and recharges its built-in battery. No. RCTP1400

RCA Color Video Camera Model CC005

Retail:$995.00
$739.95
Your Cost

No. RCCC005

- f1.8—3:1 zoom lens
- Electronic viewfinder
- Built-in microphone
- Automatic iris
- Built-in white balance system
- On-camera recording/pause control

Shpg Wt: 14 lbs

3:1 zoom lens and electronic viewfinder

RCA Color Camera Model CC006

6:1 power zoom lens and electronic viewfinder microphone

$769.95
Retail:$1000.00

The CC006 is the most advanced and fully-featured color video camera offered by RCA. Yet it's easy to use—indoors or out—and is designed for dependable operation over the years.

Shpg Wt:14 lbs
No. RCCC006

RCA AC Adapter/Charger for Portable VCR PDP500

No. RCPDP500
Your Cost **$169.95**

Designed for use with the VEP150 Portable VCR as an economical alternative to the TEP1400 Tuner/Timer Module described above. Gives you a completely portable camera/recording and video cassette playback system, but without "off the air" recording capability.

The PDP500 serves two important functions: 1) To recharge the 150 Recorder's built-in battery off regular AC house current. 2) To play back video cassettes on AC current so that you can save your batteries for outdoor recording.

You can also use the 500's AC power supply for in-home camera recording with the VEP150. You get up to six hours recording or playback time on a single cassette. **Retail:$200.00**

RCA 19" Diagonal Color Track VCR Monitor

Wt:70 lbs
No. RCVEM575
Retail:$795.00
$579.95

RCA Black & White Video Cameras

Shpg Wt:15 lbs Model BW007

Your Cost **$299.95**
Retail:$339.00
No. RCBW005
Model BW005
f 1.6 - 16mm Lens Optical Viewfinder

Now you can make your home video tapes with RCA's black & white video sound camera. It's designed for simple, dependable operation—just locate the shot you want through the viewfinder, press the trigger and you get instant "home movies" complete with sound.

- Sensitive built-in directional microphone for simultaneous recording of picture and sound.
- Deluxe optical viewfinder.
- Hand-molded pistol grip with VCR pause control.
- Automatic light compensation circuitry adjusts for different light conditions.
- Compact power supply features a convenient built-in 500-watt AC outlet for VCR hookup.

Your Cost **$369.95**
Retail:$439.00
4:1 Zoom Lens Thru Lens Viewfinder Boom Microphone No. RCBW007

Now you can make your own home video tapes with RCA's black & white video sound camera. It's designed for simple, dependable operation—just locate the shot you want through the viewfinder, press the trigger and you get instant "home movies" complete with sound.

- 4:1 zoom lens.
- Deluxe boom microphone telescopes out to 7½ inches.
- Thru-the-lens viewfinder lets you see exactly what you're recording.
- Macro focus to within 4 inches of subject.
- Hand-molded pistol grip with VCR pause control.
- Automatic light compensation circuitry adjusts for differing light conditions.
- Compact power supply features a convenient built-in 500-watt AC outlet for VCR hook-up.

RCA VIDEO ACCESSORIES

RCCPS01	Power Supply CC006	44.95
RCKK160	Portable VCR carrying case	44.95
RCKK035	Color camera case for CC003,CC004 & CC006	59.95
RCMC001	Microphone	19.95
RCHV3	Video Lightinf Kit	125.00
RCW3	Wheel kit for DLPJ	36.95
RCDLPJ	Video Camera Tripod	139.95
RC2420	Gusdorf VCR stand	69.96
RC2445	Deluxe Gusdorf VCR Stand	99.95
RC1925	Deluxe Gusdorf VCR Stand	189.95

RCA Video Cassettes

Minimum order—3 tapes

Two types of RCA video cassettes provide extended play time: VK250 allows up to 6 hours of recording time. VK125 up to 3 hours.

Tapes are erasable and reusable. Knockout safety tabs on each cassette make it impossible to erase recorded material accidentally.

VK125 2-hour tape **$10.97**

VK250 4-hour tape **$14.57**

BETAMAX CAMERA HVC-1000

Your Cost **$999.95**

- MF Trinicon pickup tube system for exceptional color reproduction
- High resolution (300 lines), high sensitivity and high color rendering
- 3X zoom lens F 1.8
- Optical through the lens finder
- Lightweight (4 lbs. 14 ozs.)
- Automatic IRIS control
- Built in microphone and external microphone jack input
- Dimensions: 6"H x 5-7/8"W x 12-3/8"D
- Supplied Accessories: Carrying case, Eye cup, Lens cap — Item No SOHC1000 — **Retail:$1400.00**

Shpg Wt:6 lbs

SONY

SONY BETAMAX CAMERA HVC-2010

Your Cost **$659.95**
Item No SOHC2010

- MF Trinicon system for exceptional color reproduction
- High resolution (300 lines), high sensitivity and high color rendering
- Focus free 2 position lens (F 1.8, f=13mm & 26mm)
- Albata system optical view finder
- Green position for ease of operation
- Auto/Manual IRIS control
- Automatic IRIS shut off to protect a pick up tube against strong light
- EVF connector for optional EVF
- Built in condensor microphone and external mic jack input
- Sound monitor lamp and earphone jack
- Low power consumption
- Supplied Accessories: Optical view finder, Lens cap, Earphone — Shpg Wt:6 lbs — **Retail:$800.00**

BETAMAX CAMERA HVC-2000

Your Cost **$1029.95**
Item No SOHC2000

- Outstanding sophisicated features & ease of operation
- MF Trinicon system for exceptional color reproduction
- High resolution (300 lines), high sensitivity and high color rendering
- 6X automatic motor driven zoom and macro position lens (F 1.8) by Canon
- Multi-function electronic view finder
- Electronic fade in/out for video and audio
- Remote control (zoom/stop/run) is available by an optional accessory HVR-2000
- Green position for ease of operation
- Automatic/Manual IRIS control shut off to protect a pickup tube against strong light
- Built - in condenser microphone, sound monitor lamp, earphone jack input

- Supplied Accessories: Lens cap, Earphone, Electronic view finder (HVF-2000), Carrying case (LC-20HVC)

Retail:$1250.00 Shpg Wt:7 lbs

BETAMAX CAMERA HVM-100

Your Cost **$249.95**
Item No SOHVM100

Shpg Wt:7 lbs

- Portable black & white camera
- Low light sensitivity for video recording indoors
- 2X zoom lens — F 2.5
- Built in microphone
- Remote control switch
- External sync. capability
- Focal length 16MM-32MM
- DC operation
- Lightweight
- Horizontal resolution: 450 lines
- Supplied Accessories: Hand grip, Carrying case

Retail:$299.95

SONY

Betamax

Betamax Video Camera-B & W AVC-1420

- Black and white video camera kit includes: Microphone, Cables, AC adaptor, VMC-3LW, Hand grip, Carrying case

Item No SOHC1420

Retail: $399.95 **$329.95** Shpg Wt:4 lbs

LET SONY PUT YOU BEHIND THE CAMERA.

SONY BETAMAX CAMERA ACCESSORIES

Part No.	Description	Your Cost
SOCCK5	5 meter cable for HVC-1000/HVM-100/ HVC-2000/HVC-2010	$45.00
SOCCK10	10 mtr cable as above	60.00
SOCCK3MP	Cable adaptor for HVS-2000 to SL-3000	18.00
SOCMA100	AC adaptor for HVC-1000 and HVM-100	110.00
SOECM-31	HVC Unidirectional mic for HVC-1000/HVM-100/ HVC-2000/HVC-2010	50.00
SOHVA200	AC adaptor for HVC-2000/HVC-2010/HVC-1000/ HVM-1000	52.00
SOHVD2000	Battery pack for HVC-2000/HVM-100/HVC-1000	48.00
SOHF2000	Electronic view finder for HVC-0	
SOHF2000	Electronic view finder for HVC-2000/HVC2010	147.00
SOHR2000	Remote control for HVC-2000	34.00
SOHS2000	SPECIAL EFFECTS GENERATOR Lets you combine HVM-100 with HVC-1000/ HVC-2010/HVC-2000 or recorders for super-imposing figures, captions or titles over images Switch from source to source, six color tints, fade in/our	149.95
SOHT2100	Video camera titler for HVC-2000	56.50
SOLC20HV	Carrying case for HVC-2010/HVC-2000	45.00
SOVCL1549	Adaptor lens for conv. HVC-2010/2000 to 4.5X zoom	80.00
SOVCR3	Telecine adaptor for film to tape with HVC-1000	229.95
SOVCR4	Telecine for HVC-2000	229.95
SOVCT20	Tripod for HVC-2010/2000/1000 AVC-1420 HVM	100.00
SOVFC6CB	20 ft ext cable for electronic viewfinder on HVC-2000	32.00

SONY BETAMAX ACCESSORIES

Part No.	Description	Your Cost
SOAC300C	AC power adaptor for SL-3000	$140.00
SOAG200	Videocassette changer for LV=1901/D SL-7200/A, SL-8200 & SL-8600	125.00
SOAH350	Hard Handle for SL-3000	25.00
SOBP60C	Rechargeable battery pack for SL-3000 & HVD-200	68.00
SOCCF5C	5 meter ext. cable for SL-5400 remote	21.50
SOCCF10C	10 meter ext. cable for SL-5400 remote	32.50
SOCCK2M	Cable adaptor for AVC-1420 to SL-3000	20.00
SOCCK2MP	Cable adaptor for Betamax to SL-3000 ofr	15.00
SODC2400	Car battery cord for SL-3000	35.00
SOPC101	Video cable for HVC-2010, HVC-2000, HVC-1000 to KP-5000 / KP-7200 with PC-102	4.00
SOPC102	as above for PC-101	4.00
SOLC333	Sturdy carrying case for SL-3000	40.00
SORFC8	25 foot ext. cable o Betamax to television	9.00
SOSU61	Betamax stand	39.00
SOCMA202	Cable adaptor for dDXC-1600C to SL-3000	80.00

ORDER TODAY!
TOLL-FREE OUTSIDE CALIF.
800-421-8045
FROM CALIF. & FOR INFORMATION
(213)-381-3911

WE WILL BEAT ANY PRICE

KP-5000 Retail:$3200.00

- Large 50 inch screen (measured diagonally)
- One piece design allows for easy set up in the home
- Durable coated screen
- Wireless infrared remote control unit
- Two high performance glass lenses
- 60ft – Lambert Brightness
- Electronic Tuning
- Vertical Interval Reference Signal (VIRS) can be used for automatic color control
- Vinyl pecan veneer on wood cabinet
  Dim: 68-3/4" H x 41-1/2" W x 26-1/4" D

Your Cost
$2599.95

SONY

Item No SOKP5000
Shpg Wt:245 lbs

SONY PROJECTION SYSTEM KP-7200

Your Cost
$2957.95
Retail:$3700.00

- Large 72 inch screen (measured diagonally)
- One piece design allows for easy set up in the home
- Durable coated screen
- Wireless infrared remote control unit
- Two high performance glass lenses
- 30ft – Lambert Brightness
- Electronic Tuning
- Vertical Interval Reference Signal (VIRS) can be used for automatic color control
- Vinyl pecan veneer on wood cabinet
  Dimensions: 90-1/2" H x 59-1/2" W x 48-1/8" D

Item No SOKP7200
Shpg WT:280 lbs

BETAMAX SL-5600 VIDEOCASSETTE RECORDERS

- Betascan picture search system
- 14 days/4 events on up to 4 different channels
- Three times normal speed "fast play"/ freeze frame
- Records up to 5 hours on L-830 tape
- Remote control for Betascan, freeze frame/pause, fast play
- 10 min. backup for clock advance and memory hold in event of power failure
- Record & playback in Beta II & Beta III; playback also in Beta I
- Electronic indexing system/"tab marker"
- Fully logic micro-processor controlled function keys
- Express tuning
- Audio dubbing

Your Cost
$1089.95
Retail:$1350.00

- **Supplied Accessories:**
  L-250 tape
  Remote commander (TM-56W)
  Antenna adaptors (EAC-24 & EAC-25)
  75-OHM coaxial & 300-OHM twin-lead cables

Item No SOSL5600
Shpg Wt:43 lbs

- Variable BetaScan: Scan at any speed between 5 and 20 times normal in Cue (fast forward) and Review (reverse) while maintaining picture without sound on your TV screen*
- Crystal Clear: Freeze-Frame, Frame by Frame Picture Advance and Variable Speed Slo-Motion at any speed between 0 and ½ normal speed
- Three times Fast Play to review your programs
- Time Commander Remote Control with Variable BetaScan, Pause/Freeze-Frame, Frame by Frame Picture Advance, Variable Speed Slo-Motion 3 times Fast Play and Fast Forward/Rewind
- Five hour recording capability on a single L-830 Betamax videocassette/20-hour consecutive recording with use of AG-300 programmable BetaStack and 4 L-830 videocassettes
- Records up to 14 days in advance. Programming can be set on 4 different channels. With BetaStack (AG-300) 4 individual cassette programming available
- Tab Marker system for Electronic Indexing and non-visual program search
- Full logic micro-processor control function keys
- Ten minute power back-up for clock advance and memory hold in event of power failure

BETAMAX SL-5800

Your Cost
$1159.95
Retail:$1450.00

Item No SOSL5800
Shpg Wt:43 lbs

- Fourteen pushbutton express tuning
- Auto rewind capability when the tape reaches the end

BETAMAX SL-3000

- Lightweight portable Betamax video cassette recorder/player
- 14 pin camera connector
- 3-way power operation
- Cue function

Your Cost
$1049.95
Retail:$1299.00

- One-hour recording on a single rechargeable battery with color camera HVC-1000
- Optional 7 day tuner/timer unit for off air recording
- Professional Timing Phase circuit (TP) in recording mode to assure there's no tear-out of the play-back picture from scene to scene between pauses
- Built-in 2/3 channel switchable RF modulator
- Records in Beta II and plays back in Beta I and Beta II

Item No SOSL3000
Shpg Wt:21 lbs

- **Supplied Accessories:**
  Antenna selector
  Two 75-OHM coaxial cables
  RF unit (RFU-634)
  Earphone (ME-20B)
  Shoulder strap
  Soft carrying case
  L-250 video cassette

TT-3000 Tuner-Timer

Tuner/7 day programmable timer for SL-3000

SONY

Your Cost
$399.95
Retail:$499.95

- Records from 14 VHF and UHF channels
- LED Clock/Timer allows both 24 hour digital clock and timer to be set in precise one-minute intervals
- Express Tuning™ for electronic pushbutton channel selection at the touch of a button
- Individual setting dials for both VHF and UHF allows setting of channels in any order
- Timer can be set to record a program automatically up to a week in advance
- Large, bright, easy-to-read digital clock display
- Automatic Fine Tuning for sharp, clear picture
- Works with U-matic videocassette recorders
- Two-way antenna splitter
- Adaptable to DC for use with Sony SL-3000 portable Betamax
- Acts as battery recharger for BP-60 Battery Pack
- Two convenient AC outlets—switched and unswitched

Item No SOTT3000 Shpg Wt:17 lbs

Supplied Accessories:
Remote pause commander
External antenna connector
F-type connector

SONY VIDEOCASSETTES FOR Betamax

SOL830	Five hour tape with SL-5600 & SL-5400 (BetaIII)	$19.95
SOL750	4.5 hour with SL-5600 & SL-5400 3 hour with SL-3000	14.95
SOL5000	3hour with SL-5600 & SL-5400 2 hour with SL-3000	11.95
SOL250	1.5 hour with SL-5600 & SL-5400 1 hour with SL-3000	10.95
SOL125	45 min on SL-5600 & SL-5400 30 min on SL-3000	9.95

PLAY IT AGAIN, SONY THE ONE AND ONLY

BETASTACK AG-300

Your Cost
$179.95
Item No SOAG300

Shpg Wt:8 lbs

- Designed for use with Betamax models SL-5800, SL-5600 and SL-5400
- Programmable operation means you can set your AG-300 BetaStack Programmable Videocassette Autochanger to record each program on a single Betamax videocassette (with model SL-5800 or SL-5600 only)
- Handles up to four Betamax videocassettes for combined recording time of up to 20 consecutive hours (with 4 L-830 Betamax videocassettes on SL-5800, SL-5600 and SL-5400 recorders)
- Operates in Playback, Record, and Rewind modes; all normal Betamax functions (Record, Playback, BetaScan, Fast Forward, Rewind, Stop etc.) are available to you with AG-300 installed
- BetaStack plugs into "Auto Changer Control Jack" on Betamax SL-5800 or SL-5600 for programmable operation
- Operates automatically for recording even when you're away from home
- Simple to install—attachments, screwdriver, and complete instructions provided
- Three-motor-drive mechanism controlled by micro-computer circuitry
- Automatic videocassette inserting and ejecting function

KV-2643R

Item No SOKV2643

Your Cost
$999.95

Retail:$1199.95

- 26" screen
- Express tuning - 14 pushbutton electronic tuning system
- Fully-automatic/semi-automatic presetting
- Alpha chassis
- Pecan hand finished veneer cabinet
- Express commander remote control unit with up/down
- Digital Clock/ Channel Display
- Velocity Modulation
- 30-1/4"H x 36-1/2"W x 23"D
- **SUPPLIED ACCESSORY:**
  Remote Commander : RM-503

Shpg Wt:190 lbs

KV-2644R

Item No SOKV2644

Retail:$1119.95

Your Cost
$999.95

- 26" screen
- Express tuning - 14 pushbutton electronic tuning system
- Fully-automatic/semi-automatic presetting
- Alpha chassis
- Pearl white plastic cabinet
- Express commander remote control unit with up/down
- Digital clock/channel display
- Velocity Modulation
- 30-3/8"H x 36"W x 22-3/4"D
- **SUPPLIED ACCESSORY:**
  Remote Commander : RM-503

Shpg Wt:165 lbs

THE BIGGEST THING TO HAPPEN TO TV IN YEARS.

KV-2645R

Your Cost
$1059.95

- 26" screen
- 10-key frequency synthesis express tuning
- No channel presetting required
- New alpha chassis
- Oak hand finished veneer cabinet
- 10-key express commander remote control unit with up/down
- Matrix stereo sound system
- 5 LED volume/picture level indicators
- Velocity Modulation
- Digital channel dsplay
- 30-1/8"H x 40-5/8"W x 22-7/8"D
- **SUPPLIED ACCESSORY:**
  Remote Commander : RM-701

Shpg Wt:215 lbs

Retail:$1249.95

Item No SOKV2645

KV-2601

Retail:$1049.95

Item No SOKV2601

SONY

Your Cost
$879.95

- 26" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Pecan hand finished veneer cabinet
- Velocity Modulation
- 30-1/2"H x 36-1/2"W x 23"D

Shpg Wt:190 lbs

KV-1945R

Retail:$769.95

Screens measured diagonally

Your Cost
$639.95
Item No SOKV1945

- 19" screen
- 10-key frequency synthesis express tuning
- No channel presetting required
- New alpha chassis
- Silver metallic plastic cabinet
- 10-key express commander remote control unit with up/down
- 5 LED volume/picture level indicators
- Digital channel display
- Audio line output
- 18-1/2" H x 25" W x 18-3/4"D
- **SUPPLIED ACCESSORY:**
  Remote Commander : RM-701

Shpg Wt:75 lbs

KV-1943R

Your Cost
$619.95
Item No SOKV1943

Retail:$749.95

- 19" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Vinyl walnut veneer on wood cabinet
- Express commander remote control unit with up/down
- 19-3/8"H x 25-5/8"W x 18-5/8"D
- **SUPPLIED ACCESSORY:**
  Remote Commander : RM-503

Shpg Wt:78 lb

KV-1923

Your Cost
$526.95
Item No SOKV1923

Retail:$639.95 Shpg Wt:83 lbs

- 19" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Vinyl walnut veneer on wood cabinet
- 20-1/4"H x 27-1/2"W x18-3/8"D

SONY

KV-1914

Retail:$579.95

Your Cost
$479.95
Item No SOKV1914

- 19" screen
- V.R. presetting
- New alpha chassis
- Silver metallic plastic cabinet
- Sliding volume control
- 18-15/16"H x 26-11/16"W x 18-9/16"D Shpg Wt:75 lbs

SONY TRINITRON

TRINITRON: *The unique one-gun/one-lens Sony system that's better than ever, with a new picture tube design including an improved electron gun which gives you more critically accurate focus—this means you get a vivid, brilliant, distortion-free picture that won't wash out at the edges.*

KV-1912 TRINITRON

No SOKV1912

- 19" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Silver gray plastic cabinet
- 21-1/4"H x 20-1/4"W x 18-3/4"D

Your Cost **$536.95**

Shpg Wt:75 lbs

Retail:$649.95

SONY

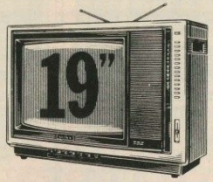
KV-1913

Item No SOKV1913

- 19" screen
- V.R. presetting
- New alpha chassis
- Walnut grain plastic cabinet
- Sliding volume control
- 18-15/16"H x 26-11/16"W x 18-9/16"D

Your Cost **$486.95**

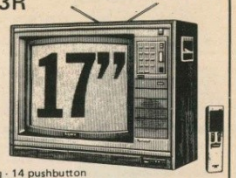
Retail:$589.95



Shpg Wt:75 lbs

KV-1743R

Item No SOKV1743



- 17" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Vinyl walnut veneer on wood cabinet
- Express commander remote control unit with up/down
- 17-3/4"H x 23-1/4"W x 18-1/2"D
- SUPPLIED ACCESSORY: Remote Commander : RM-503

Shpg Wt:69 lbs

Retail:$669.95

Your Cost **$554.95**

KV-1543R

Retail:$629.95

- 15" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Vinyl walnut veneer on wood cabinet
- Express commander remote control unit with up/down
- 16"H x 20-3/4"W x 16-5/8"D
- SUPPLIED ACCESSORY: Remote Commander : RM-503

Shpg Wt:49 lbs

Your Cost **$519.95**

Item No SOKV1543

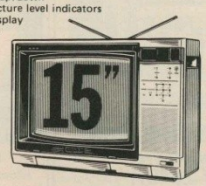
KV-1545R

Item No SOKV1545

- 15" screen
- 10-key frequency synthesis express tuning
- No channel presetting required
- New alpha chassis
- Silver metallic plastic cabinet with removable tinted glass screen
- 10-key express commander remote control unit with up/down
- 5 LED volume/picture level indicators
- Digital channel display
- Audio line output
- 15"H x 20--3/4" W x 17-1/8"D
- SUPPLIED ACCESSORY: Remote Commander : RM-701

Your Cost **$534.95**

Retail:$649.95



Shpg Wt:49 lbs

KV-1714

Item No SOKV1714

Retail:$579.95

- 17" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Silver metallic plastic cabinet
- 17-7/8"H x 22-1/4"W x 18-3/8"D

Your Cost **$479.95**

Shpg Wt:68lbs

KV-1514

Item No SOKV1514

- 15" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- Silver Gray plastic cabinet
- 16-7/8"H x 15-1/2"W x 17-1/8"D

Your Cost **$462.95**

Retail:$559.95

Shpg Wt:48 lbs

KV-1513

Item No SOKV1513

- 15" screen
- Express tuning
- V.R. presetting
- Power saving chassis
- Vinyl walnut veneer on wood cabinet
- 15-5/16"H x 21-3/4"W x 16-5/16"D

Your Cost **$419.95**

Retail:$509.95

Shpg Wt:49 lbs

SONY

KV-1221R

Item No SOKV1221

- 12" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- New alpha chassis
- Silver metallic plastic cabinet
- Up/down remote control system
- 15-5/8"H x 13-1/4"W x 15-3/4"D
- SUPPLIED ACCESSORY: Remote Commander : RM-702

Your Cost **$454.95**

Retail:$549.95

Shpg Wt:42 lbs

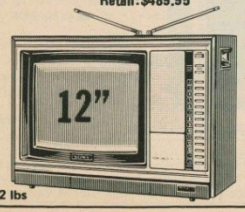
KV-1217

Item No SOKV1217

- 12" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- New alpha chassis
- Vinyl wood veneer on wood cabinet
- 13-3/8"H x 18-1/2"W x 15-3/8"D

Your Cost **$398.95**

Retail:$489.95



Shpg Wt:42 lbs

KV-1206

Item No SOKV1206

- 12" screen
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Alpha chassis
- White plastic cabinet
- 15"H x 13-1/8"W x 14-3/4"D

Shpg Wt:39 lbs

Your Cost **$437.95**

Retail:$529.95

KV-9400

Item No SOKV9400

- 9" screen
- Express tuning - 14 pushbutton electronic tuning system
- V.R. presetting
- New alpha chassis
- Silver metallic plastic cabinet with dark glare-free screen
- 11-1/2"H x 10-1/2"W x 13-1/8"D

Shpg Wt:28 lbs

Your Cost **$412.95**

Retail:$499.95

SONY

SCREENS MEASURED DIAGONALLY

SONY TRINITRON KV-8100

Retail:$569.95

- 7.7 screen
- AC/DC operation - 3 way
- Express tuning - 14 pushbutton electronic tuning system
- Semi-automatic presetting
- Silver metallic plastic cabinet with dark glare-free screen
- SUPPLIED ACCESSORY: AC Cord

Your Cost **$469.95**

Shpg Wt:29 lbs

Item No SOKV8100

9-3/8"H x 10-1/4"W x 12-7/8"D

KV-5200 SONY TRINITRON

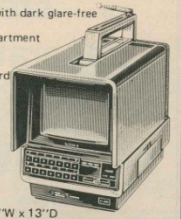
Retail:$549.95

- 5" screen
- AC/DC operation - 3 way
- Express tuning - 14 pushbutton
- Semi-automatic presetting with on-screen tuning bar
- Gray plastic cabinet with dark glare-free screen
- Built-in battery compartment
- Sliding light shield
- SUPPLIED ACCESSORY: AC Cord

Your Cost **$439.95**

Item No SOKV5200

Shpg Wt:22 lbs



10-5/8"H x 6-3/8"W x 13"D

KV-4000 TRINITRON

Item NoSOKV4000

- 3.7" screen
- AC/DC operation - 4 way
- Electronic search tuning
- No channel presetting required
- Brushed aluminum cabinet with tinted glass screen
- Illuminated channel display on smoked screen
- Video/Audio line inputs
- Tilting screen
- SUPPLIED ACCESSORIES: AC Adaptor, Battery Case, Carrying Case

Your Cost **$439.95**

4-3/4"H x 4-3/4"W x 11-3/8"D

Retail: $549.95

Shpg Wt:12 lbs

FX-414

Your Cost **$319.95**

- 3.7" screen
- AM/FM stereo radio
- Stereo cassette recorder with two built-in microphones
- 4 way power supply
- Built-in battery compartment
- Electronic tuning
- Silver metallic plastic cabinet
- Quick cold start
- Sound on sound
- 2 position tape selector (normal/CrO_2)
- Detachable glare-free tinted screen
- SUPPLIED ACCESSORIES: AC Cord, Short Plug

Item No SOFX414

Retail:$379.95

Shpg Wt:22 lbs

TV-413

- 3.7" screen
- AM/FM radio
- LCD quartz clock/timer
- Sleep timer
- Dream Bar
- 4 way power supply
- Electronic tuning
- Built in battery compartment
- Silver metallic plastic cabinet with glare-free screen
- SUPPLIED ACCESSORIES: AC Adaptor, Earphone, Hood

Your Cost **$239.95**

Retail:$274.95

Item No SOTV413

Shpg Wt:10 lbs

FX-412

Item No SOFX412

Your Cost **$269.95**

3.7" screen
AM/FM radio
Cassette recorder
4 way power supply
Built in battery compartment
Electronic tuning
Silver metallic plastic cabinet with glare-free screen

Retail:$329.95

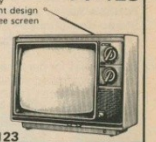
Shpg Wt:13 lbs

SUPPLIED ACCESSORIES: AC Adaptor, Earphone, Shoulder Belt, Hood, Cassette Tape, Short Plug

TV-123

- 12 inch screen
- 3 way power supply
- Compact lightweight design
- Detachable glare free screen

Your Cost **$109.95**



Shpg Wt:25 lbs

Retail:$129.95

Item No SOTV123

TV-790

- 7 inch screen
- Compact lightweight design
- 3 way power supply
- Built in battery compartment
- Ivory white cabinet

$149.95

Item No SOTV790

Retail:$179.95

Shpg Wt:16 lbs

TV-513

- 5" screen
- Fluorescent quartz clock/timer
- Sleep timer
- Dream bar
- 3 way power supply
- White cabinet with glare-free screen

Your Cost **$159.95**

Item No SOTV513

Retail:$189.95

Shpg Wt:13 lbs

SONY STEREO ACCESSORIES

Model	Description	Your Cost
SOMDR-3L2	Miniaturized lightweight stereo headphone PC34 included	49.95
SOPC-34	Plug adaptor to convert mini stereo plug to standard stereo plug	4.50
SODR-2C	Lightweight Stereo Headphone	22.00
SODR-S3C	Stereo Headphone with adjustable headband and curb cord.	30.00
SOECM-99A	"One point" Stereo Electret Condenser Microphone	60.00
SOSU-68	Stand for Interlock Systems, simulated walnut woodgrain side panel, tempered glas door 31-1/8" H x 20" W x 15-3/4" D	70.00
SOPT-59	Digital Clock/Timer has built-in memory to turn on and off up to 4 times daily. Calculator-type pushbuttons. Can be used with Sony RT66, RT44, HMK 3000, HMK 3030 (2-3/4" H x 16-15/16" W x 5-1/2" D)	120.00
SOKK-3	Tape Mechanism Cleaning Kit	6.50
SOC-1K	Tape Mechanism Cleaning Cassette	1.00
SORK-74A	Phono plugs to phono plugs (RCA type)	5.00
SORK-81H	Phono plugs to stereo standard phono plug	5.00
SORK-88H	Mini plug to phono jack	4.50
SORK-99H	Mini plug to phono plugs	3.50
SORK-105A	RCA phono jack to phono jack	5.50
SORK-115A	Mini phono plug to attenuator to RCA type phono plugs	6.50

SONY TV ACCESSORIES

Model	Description	Your Cost	Shpg Wt.
SOAN-55-W4	UHF Parabolic Antenna For all Trinitron portable/table models except KV-8000, KV-5200, KV-4000, KV-8100 and KV-9400.	$ 19.00	5 LBS
SOBCP-4	Rechargeable battery pack, battery case, DCC-16AW, PC-24 and recharger for use with all Sony Black & White AC/DC models.	49.95	6 LBS
SOBP-36	Rechargeable battery pack for TV-790 and KV-4000.	24.00	6 LBS
SOBP-37W	Rechargeable battery pack for KV-5200.	49.95	6 LBS
SO80650	Rechargeable battery pack for KV-8000.	130.00	6 LBS
SO81650	Rechargeable battery pack for KV-8100.	130.00	6 LBS
SODC15AW	Car battery cord for KV-8000, KV-8100 & KV-5200.	16.00	2 LBS
SODC16AW	Car battery cord for use with all Sony B/W models and KV-4000.	12.00	2 LBS
SOEAC-6A	300 OHM Antenna connector for for FX-310, TV-413, FX-412, TV-513, TV-790, KV-5200, KV-8100 and FX-414.	8.00	1 LB
SOEAC-10	Car antenna connector for TV-121, TV-123.	5.25	1 LB
SOEAC-13W	75 OHM Antenna connector for KV-9300, KV-1216, KV-1513, KV-9400.	4.00	1 LB
SOEAC-19	75 OHM Antenna connector for KV-9300, KV-1216, KV-1513, KV-9400.	2.00	1 LB
SORM-701	10 Key Express Commander for KV-1545R, KV-1945R and KV-2645R.	30.00	3 LBS
SORM-702	Remote control commander for KV-1221R.	20.00	3 LBS
SORM-503	Express Commander for KV-1944R, KV-2644R, KV-2643R, KV-1943R, KV-1743R and KV-1543R.	40.00	3 LBS
SOVCA-3W	VHF/UHF car antenna (gutter mount)	25.00	5 LBS
SOVCA-4	VHF/UHF car antenna (roof mount)	45.00	5 LBS

SONY

ORDER TODAY!
TOLL-FREE OUTSIDE CALIF.
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FROM CALIF.
& FOR INFORMATION
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WE WILL BEAT ANY PRICE

ORDER TODAY !
OLYMPIC SALES COMPANY, INC.

ANNOUNCING THE WORLD'S SMALLEST STEREO CASSETTE PLAYER.

(The famous "Walkman") or "Soundabout" Player

Your Cost

TPS-L2 $169.95

TPS-L2/MDR-3L2
Portable Stereo Cassette Player and Stereo Headphones–Sony Walkman
High-performance stereo cassette player with full features ☐ Comfortable, super-light, micro-size stereo headphones for personal listening enjoyment ☐ Carrying case and shoulder strap for portable comfort and convenience ☐ Built-in microphone and Hot-Line Button for talking or singing over music ☐ Two headphone jacks for connecting a second, optional pair of headphones ☐ Tone selector to raise or lower treble ☐ Cue and Review for fast location of specific tape portions ☐ Optional plug adaptor connects Walkman to home stereo system ☐ Separate volume control for each channel ☐ Counter-inertial flywheel system for tape transport stability ☐ Coreless servo-controlled motor for longer battery life ☐ AC/DC operation ☐ Uses 2 size "AA" batteries (included)
(5⅝"H x 3⅛"W x 1⅜"D)

Item No. SOTPSL2 Retail:$199.95

from SONY

New SONY TV-515 Item No. SOTV515
15" Black & White TELEVISION $169.95
Retail:$199.95 SONY

true stereo separation in the palm of your hand

(6⅝"H x 1⅝"W x 3⅛"D)

TCS-300
$189.95 Retail:$219.95

Hand-Held Stereo Cassette-Corder
A true stereo cassette-corder small enough to travel with you always ☐ Engineered and designed for easy, one-hand operation ☐ Records in stereo from two built-in uni-directional, electret condenser microphones ☐ Input jack for optional external stereo microphone ☐ Stereo playback through Sony headphones ☐ Built-in speaker for monophonic playback ☐ Cue and Review, plus 3-digit tape counter, for fast location of specific tape portions ☐ LED pre-end alarm signals tape end ☐ Locking pause control ☐ Individual left and right volume controls for precise listening enjoyment ☐ Automatic end-of-tape shut-off ☐ Continuous tone control to adjust sound to individual preferences ☐ High-performance servo-controlled motor ☐ Rugged, easy-grip cabinet for last durability and secure handling ☐ 4-way power-supply capability ☐ Uses 4 size "AA" batteries (included)

ONE LOOK, AND YOU WON'T BELIEVE YOUR EARS.
Item No. SOTCS300

NEW Sony KV-1715R
17" Remote Color Trinitron
in full color, with touch tuning–up to 99 channels.
Item No. SOKV1715R Your Cost
Retail:$659.95 **$544.95**

SONY®
NEW VIDEO PROJECTION SYSTEM
TWO-PIECE VIDEOSCOPE
COLOR Projection System
KP-5020 & KP-7220
50" screen 72" screen

Sony's new two-piece "Videoscope" Color Projection System, with 50" and 72" screen models, displays a brighter and clearer picture under normal lighting conditions. The system's projection unit is a beautiful coffee table with a smoked glass top. The Screen also helps save space because it can be placed flat against a wall where it won't interfere with the room arrangement. Utilizing Sony's advanced Trinitron color TV technology, the new "Videoscope" 50"(Model KP-5020) and 72" (Model KP-7220) units feature three 5.5" monocolor liquid self-cooling picture tubes for a cool, quiet performance, and three aspherical plastic lenses that ensure higher quality resolution, particularly in marginal areas.

KP-5020
50" $1999.00
Retail:$2495.00
Retail:$2995.00
KP-7220
72" $2399.00

Item No. SOKP5020 Item No. SOKP7220

SONY VIDEO CASSETTES
L500 2 hour $10.95
L750 3 hour $13.95
Minimum order—3 tapes

RT-66 Your Cost $349.95
- AM/FM stereo receiver cassette deck
- Direct access tuning
- FM program sensor tuning
- Smooth fly wheel tuning
- Electronic feather touch
- Dolby*/Metal tape capability
- Multi A.M.S./record mute
- 2-motor tape transport
- Power/record LED meters
- Timer stand by capability
- 25 w/ch 20-20KHz, THD 0.8%

Retail:$439.95

SORT66
Shpg Wt:29 lbs

RT-44 SONY RECEIVERS
Retail:$339.95 **$279.95**
- AM/FM stereo receiver cassette deck
- Smooth fly wheel tuning
- Dolby*/Metal tape cabability
- A.M.S./record mute
- Electronic feather touch
- 2-motor tape transport
- Power/record meters
- Timer stand by capability
- 15 w/ch 20-20KHz, THD 0.8%

Item No SORT44

Shpg Wt:28 lbs

RT-33 Item No SORT33
- AM/FM stereo receiver cassette deck
- Dolby*
- Metal tape capability
- Power/record meters
- Manual record level control
- Oil-damped cassette
- 10 w/ch 90-15KHz, THD 0.8%

Retail:$619.95 Your Cost **$224.95**

Shpg Wt:25 lbs

Y-33 SONY STEREOS
Your Cost **$469.95**

Interlock System consists of the following:
- AM/FM stereo receiver cassette deck; RT-33
- Turntable; PS-242
- Speakers; one pair of SS-555

Retail:$269.95
Item No. SOY33

Shpg Wt:65 lbs

PS-434 TURNTABLE
- Fully automatic/direct drive
- Quartz-locked
- B.S.L. motor, smooth-silent rotation of die-cast aluminum platter
- Magnedisc speed monitoring
- Repeat button/disc. light
- Front-mounted controls
- Space-saver dust cover
- Magnetic cartridge

Your Cost
Retail:$219.95 **$179.95**

Shpg WT:20 lbs
Item No. SOPS434

PS-333
Your Cost **$157.95**
- Fully automatic/direct drive
- B.S.L. motor, smooth-silent rotation of die-cast aluminum platter
- Magnedisc speed monitoring
- Front-mounted controls
- Space-saver dust cover
- Magnetic cartridge

Retail:$189.95

Item No. SOPS333 Shpg Wt: 18 lbs

PS-242 SONY
- Semi-automatic
- Direct drive
- Magnedisc speed monitoring
- Front-mounted controls
- B.S.L. motor, smooth-silent rotation of die-cast aluminum platter
- Magnetic cartridge

Retail:$149.95 Your Cost **$123.95**

Item No. SOPS242 Shpg Wt: 18 lbs

HMK-119/SS112 Retail:$279.95
- FM/AM/FM Stereo Receiver, Cassette Recorder/Player, Record Changer
- 6 w/ch, 90-15 KHz, THD 2%
- Program Sensor Tuning System
- LED tuning meter
- Speaker selector
- Air-damped cassette compartment

Your Cost **$237.95**

Integrated Compact Music Systems by SONY

Shpg Wt:28 lbs
Item No. SOHMK119

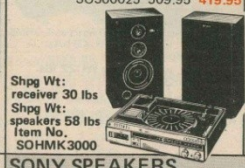
HME-118/SS112 Retail:$279.95
- FM/AM/FM Stereo Receiver, 8-Track Recorder/Player Record changer
- 6 w/ch, 90-15 KHz, THD 2%
- Program Sensor Tuning System
- LED tuning meter
- Speaker selector
- End-stop for 8-track

Your Cost **$237.95**

Shpg Wt:28 lbs
Item No. SOHME118

HMK 3000/SSU-45-35-25
- AM/FM stereo cassette recorder
- Sony fully automatic turntable with front mounted controls
- Multi voltage
- Real glass dust cover, not plastic
- Electronic feather touch
- Dolby*/Metal/A.M.S./Recmute
- 2-motor tape transport
- 10 w/ch 90-15KHz, THD 2%

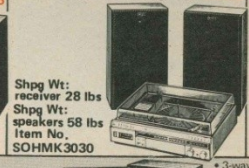
		Your Cost
SO300045	545.95	449.95
SO300035	529.95	434.95
SO300025	509.95	419.95



Shpg Wt: receiver 30 lbs
Shpg Wt: speakers 58 lbs
Item No. SOHMK3000

HMK 3030/SS-45-35-25
- AM/FM stereo cassette recorder
- Sony fully automatic belt drive front mounted control changer
- Dolby*/Metal/A.M.S./Recmute
- 2-motor tape transport
- Manual recording level
- Timer stand by capability
- 10 w/ch 90-15KHz, THD 2%

		Your Cost
SO303045	529.95	434.95
SO303035	509.95	419.95
SO303025	489.95	409.95



Shpg Wt: receiver 28 lbs
Shpg Wt: speakers 58 lbs
Item No. SOHMK3030

HMK 313/SS-45-35-25
- AM/FM stereo cassette recorder
- Sony fully automatic belt drive front mounted control changer
- New program sensor
- Light touch tape mechanism
- Speaker selector
- 10 w/ch 90-15KHz, THD 2%

		Your Cost
SO313U45	439.95	364.95
SO313U35	419.95	349.95
SO313U25	399.95	334.95

Shpg Wt: receiver 28 lbs
Item No. SOHMK313
Shpg Wt: speakers 58 lbs

HMK 414/SS-45-35-25
- AM/FM stereo/cassette recorder
- Sony fully automatic belt drive front mounted control changer
- New program sensor tuning
- Dolby*/Metal/AMS/Recmute
- LED power meters/magnetic cartridge
- 16 w/ch 90-15KHz, THD 2%

Your Cost

SO414U45	549.95	449.95
SO414U35	529.95	434.95
SO414U25	509.05	419.95

Shpg Wt: receiver 30 lbs
Shpg Wt: speakers 58 lbs
Item No. SOHMK414

SONY SPEAKERS
Shpg Wt: 58 lbs per pair unless prices are per pair otherwise noted.

Speakers U45
- 3-way bass reflex
- 8" cone woofer
- 3" midrange
- Sony 1-1/2" balanced drive tweeter
- Maximum handling power: 40 watts
- 10' speaker cord included
- 27-7/16" H x 14-5/16" W x 10-3/4" D

Speakers U35
- 2-way bass reflex
- 8" cone woofer
- 2" cone tweeter
- Maximum handling power: 30 watts
- 10' speaker cord attached
- 25-7/8" H x 14-5/8" W x 10-3/4" D

Speakers U25
- 2-way bass reflex
- 6-1/2" cone woofer
- 2" cone tweeter
- Maximum handling power 25 watts
- 10' speaker cord attached
- 22-7/8" H x 12-5/8" W x 8-1/8" D

Item No.	Retail:	Your Cost
SOSSU45	169.95	119.95
SOSSU35	139.95	99.95
SOSSU25	119.95	86.95

Shpg Wt:
U65 60 lbs EACH
U55 77 lbs pair
SS555 30 lbs pair

Speakers S555
- Advanced technology
- Compact size big sound
- 2-way bass reflex
- 6-1/2" carbocon woofer in diecast aluminum alloy basket
- Sony 1-1/2" balanced drive tweeter
- Tweeter level control
- Max handling power 40 watts
- 10' speaker cord included
- 15" H x 8-5/8" W x 8-1/8" D

Speakers U65
- 3-way bass reflex
- 13" cone woofer
- 5" mid range
Both (woof/mid) in diecast aluminum alloy basket
- Sony transcend ribbon tweeter
- Maximum handling power 120 watts
- 10' speaker cord included
- 29-3/8" H x 17-1/16" W x 14-11/16" D

Speakers U55
- 3-way bass reflex
- 11" cone woofer in diecast aluminum alloy basket
- 4" mid range
- Sony transcend ribbon tweeter
- Maximum handling power 80 watts
- 10' speaker cord included
- 25-7/16" H x 14-5/16" W x 11-11/16" D

Item No.	Retail	Your Cost
SOSSU65	219.95	139.95(ea)
SOSSU55	339.95	229.95(pr)
SOSSS55	199.95	139.95(pr)

See Page 87 for Stereo Accessories

SONY

CFS-45

- AM/FM stereo portable cassette-corder.
- 2-4" speakers.
- A.M.S./record mute.
- Tone control.
- AC/DC - 9V, 6 "D" cells.

$116.95 *Retail:* $129.95

OPTIONAL SPEAKERS
■ External Speakers : SS-95

Item No SOCFS45

Shpr Wt:13 lbs

SONY

CFS-55

Item No SOCFS 55

Shpg Wt: 14 lbs

- AM/FM stereo portable cassette-corder.
- 2-4" speakers.
- 2 large level meters.
- Tone control.
- Variable level monitor. *Retail:* $149.95
- AC/DC - 9V, 6 "D" cells.

$134.95

RADIO/CASSETTE Corder

CFS-65S

Item No SOCFS65S

- AM/SW/FM stereo portable cassette-corder.
- Multi-voltage 110/220/240.
- 2-way speakers - 5" woofer/2" tweeter.
- Line in/out.
- LED recording level display.
- AC/DC - 9V, 6 "D" cells.

OPTIONAL SPEAKERS
Extnal Spkers : SS-95

$159.95 *Retail:* $179.95

Shpg Wt:14 lbs

CFS-67

Item No SOCFS67

$174.95 *Retail:* $199.95 Shpg Wt:14 lbs

- AM/FM stereo portable cassette-corder
- A.M.S.
- 2-way speaker - 4" woofer/2" tweeter
- Tape selector.
- LED recording level display.
- Line in/out.
- AC/DC - 9V, 6 "D" cells.

OPTIONAL SPEAKERS
■ External Speakers : SS-95

CFS-V2

$209.95 *Retail:* $249.95

- All channel T.V. (UHF-VHF)/AM/FM stereo.
- Multi-voltage: 110/220/240.
- Line in/out.
- Two full-range 5" speakers.
- AC/DC - 9V, 6 "D" cells.

OPTIONAL SPEAKERS
External Speakers : SS-95

Shpg Wt:16 lbs

Item No SOCFSV2

SONY

CFS-81S

Item No SOCFS81S

$268.95 *Retail:* $319.95

- AM/SW/FM Stereo.
- Multi-voltage: 110/220/240.
- Metal tape capacity.
- 2-way speaker - 5" woofer/2" tweeter.
- A.M.S./Line in/out.
- Separate bass/treble.
- AC/DC - 12V, 8 "D" cells.

OPTIONAL SPEAKERS Shpg Wt:16 lbs
External Speakers: SS-95

CFS-F5

Item No SOCFSF5

- Deluxe AM/FM stereo.
- Dolby*/A.M.S./metal tape.
- Optional remote control w. mic.
- Electronic feather touch.
- Mic fader.
- 2 way speaker - 6-1/2" woofer/2" tweeter.

$339.95 *Retail:* $399.95

- AC/DC - 12V, 8 "D" cells.

Shpg Wt:19 lbs
OPTIONAL ACCESS/SPKR
Remote Control w/Mic: RM-23
External Speaker : SS-95

CFS-100

Item No SOCFS100

- Stereo FM/AM 3 piece portable cassette-corder.
- Automatic/manual recording.
- Two large meters.
- Sony BMC speaker cabinet.
- Tape selector.
- AC/DC- 12V, 8 "D" cells

OPTIONAL ACCESSORIES
Car Cord : DCC-130

$549.95 *Retail:* $649.95
Shpg Wt:24 lbs

RADIO/CASSETTE CORDER

XF-3000

$629.95 *Retail:* $795.00
Shpg Wt:62 lbs

Item No SOXF3000

- Portable component system.
- 10 w/ch 100 Hz-20 KHz, T.H.D. 2%.
- Dolby*/metal/Auto. reverse.
- Counter interial flywheel.
- Supplied Access: battery pack, car connector.
- Silver
- AC/DC – 12V, battery packs

OPTIONAL SPEAKERS & ACC.
■ External Speaker : XS-50
■ Battery pack : BP-70

XF-5000

Item No SOXF5000

- Portable component system.
- 40 w/ch 40 Hz - 12.5 KHz, T.H.D. 2%.
- P.W.M. amplifier.
- Direct access tuning.
- Dolby*/Metal/Auto. reverse.
- Counter interial flywheel.
- Supplied Access: battery pack, car connector.
- black
- AC/DC – 12V, battery packs

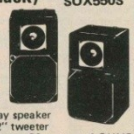
$854.95 *Retail:* $1095.00

OPTIONAL SPEAKERS & ACC.
External Speaker : XS-50
Battery pack : BP-70 Shpg Wt:59 lbs

XS-50S (silver) / XS-50B (black)

Item No SOX550S / Item No SOX550B

Speakers **$159.95** *Retail:* $199.95
Shpg Wt:39 lbs



- closed type 2-way speaker
- 4 3/4" woofer 2" tweeter
- max. handling power 80 watts at 4 OHMS
- 8 15/16" H X 5 3/16" W X 5 5/16" D
- choice of silver or black

SS-95 Speakers **$72.95** *Retail:* $85.95
Shpg Wt:22 lbs
Item No SOSS95

"IT'S A SONY"

CFS-D7

Item NoSOCFSD7

- Stereo FM/AM portable cassette-corder.
- Dolby* noise reduction system.
- Electronic feather touch controlled tape transport.
- Digital time/frequency readout counter.
- PA capability.
- AC/DC - 12V, 8 "D" & 2 "AA" cells.

$464.95 *Retail:* $549.95

Shpg Wt:23 lbs
OPTIONAL ACCESS/SPKR
External Speaker : SS-95
Car Cord : DCC-9

AUDIO TAPE RECORDERS

MODEL	DESCRIPTION	SUGGESTED RETAIL
	AC ADAPTOR	
AC-8W	AC Adaptor for all 6v operation--300MA	$10.50
AC-31W	AC Adaptor for M-203, TCM-600, M-202, M-200 3v	15.00
AK-3	AC Adaptor (AC-9W) plus BP-23 quick rechargeable battery for "AA" size	31.50
	BATTERY PACK	
BP-8	Rechargeable battery pack for 4 "C" size TC-110B only	20.00
BP-16H	Rechargeable battery pack for 4 "C" size	17.00
BP-23	Quick rechargeable battery pack for 4 "AA" for TCM-111, TCM-121	25.00
BP-28	Quick rechargeable battery pack for 4 "AA" for TCM-150A only	23.00
BP-31	Quick rechargeable battery pack for M-202	21.00
BP-33	Quick rechargeable battery pack for 2 "AA" size for TCM-600, M-203, 3v	19.00
BP-35C	Quick rechargeable battery pack for M-200 only	21.50
BP-61	Quick rechargeable battery pack for TCM-260 only	30.00
BP-70	Quick rechargeable battery pack for XF-3000/XF-5000	70.00
	CASSETTE/MAINTENANCE	
3MC-60C	Micro cassette tape	3.80
C-1K	Cleaning cassette tape	1.00
KK-3	Cleaning kit	6.50
	CAR BATTERY CORD	
DCC-8	Car battery cord for 12v operation	28.50
DC-127A	Car battery cord for 3v, 4.5v, 6v operation	29.50
DCC-130	Car battery cord for 6v, 9v and 10.5v operation	27.50
	HEADPHONES	
DR-2C	Lightweight stereo headphone	22.00
DR-53C	Stereo headphone with easy adjustable headband and curb cord	30.00
MDR-3L2	Lightweight headphone	49.95
	EARPHONES	
ME-20B	Magnetic earphone (3M)-10 Ft.	1.50
ME-100	Magnetic earphone (1M)- 3 Ft.	6.50
	MICROPHONES	
ECM-16C	Electret condenser lapel mic	38.00
ECM-31M	Telescopic Electret condenser microphone	55.00

SONY ACCESSORIES

ECM-150C	Ultra small Electret condenser lapel mic	65.00
ECM-210	Electret condenser microphone with built in remote stop/go switch	35.00
F-99MC	Dynamic 1 point stereo mic with two separate plugs	30.00
F-500SC	Dynamic type microphone with built in remote stop/go switch	24.00
F-510C	Deluxe Dynamic type microphone with built in remote stop/go switch	28.00
MX-4	Microphone mixer	45.00
	CONVERTORS/PATCH CORDS	
PC-1AC	Converts standard phone jack to mini plug	2.50
PC-2AC	Converts mini plug to standard phone jack	2.50
PC-8A	Plug adaptor mini-mono plug to stereo standard jack	3.50
PC-9A	Converts stereo headphone plug into mono-mini plug used in small tape recorders that do not take stereo phone plug	4.50
PC-19A	For RCA type phone plug to phone plug connection	5.00
PC-20A	For RCA type phono plug to phono plug connection	5.00
PC-33	For stereo plug to mini stereo plug	7.00
PC-34	For mini stereo plug to stereo plug	4.50
RK-36H	Mini phone plug to alligator clips	3.50
RK-50A	Mini phone plug to phono plug	2.50
RK-64A	Mini phono plug to mini phone plug (with attenuator)	3.50
RK-69A	Mini phone plug to mini phone plug	3.50
RK-74A	Phono plugs to phono plugs (RCA type)	5.00
RK-81H	Phono plugs to stereo standard phono plug	5.00
RK-98H	Mini plug to phono jack	4.50
RK-99H	Mini plug to phono plugs	3.50
RK-106A	Mini phone plug to RCA phono plugs	5.50
RK-115A	Mini phono plug to attenuator to RCA type phono plugs	6.50
	REMOTE CONTROL UNIT	
RM-15	Remote control unit with stop/go switch	6.50
FS-10	Remote control unit with stop/go foot switch	10.00
RM-23	Remote control unit with mic for CFS-F5	25.00
TP-SS	Telephone pickup	5.50
LC-L2	Pouch for TPS-L2	10.00

multi-band radios

CRF-330K

$1649.95

- 33 Band Portable Radio
- 29 SW Bands/AM/2FM/LW
- Cassette Recorder
- Quartz Crystal Clock
- Black and metallic gray
- (1 "D" Cell for clock)

OPTIONAL ACCESSORY
- DCC-9: Car cord

Item No SOCRF330
Shpg Wt:39 lbs
Retail: $2195.00

CRF-320

Item No SOCRF320

- 32 Band Portable Radio
- 29 SW Bands/LW/FM/AM
- Quartz Crystal Clock
- Black and metallic gray
- Power: 8 "D" cells or AC (1 "D" Cell for clock)

Shpg Wt:37 lbs

OPTIONAL ACCESSORY
- DCC-9: Car cord

$1429.95 Your Cost

Retail: $1895.00

CRF-1

Item No SOCRF1
Shpg Wt: 19 lbs

$1299.95 *Retail:* $1695.00

- Portable AM Communication Rec'v
- Continuous (10Khz - 30Mkz) AM/SSB/CW Spectrum Coverage
- Voltage Selector (110/120/120/240V)
- Lock/Search Tuning Mode
- BFO/Wide/Narrow Mode
- Rugged die-cast aluminum chassis
- AC/DC - 12V, 8 "D" cells

OPTIONAL ACCESSORY
- DCC-9: Car cord

SONY

ICF-8650

MULTI-BAND RADIOS

Item No SOIC8650

- FM/MW/air
- 3 Air Band preset
- Frequency readout counter
- Dual conversion circuitry for interference free Air Band reception
- Charcoal

OPTIONAL ACCESSORY
- DCC-9: Car cord

$384.95 *Retail:* $459.95

Shpg Wt: 11 lbs

ICF-6700W

Item No SOIC6700

- 5-band portable – SW1-3, FM and AM (MW) including 40 CB channels
- Voltage Selector 110-120-220-240
- SW pretuning for high sensitivity and selectivity
- LED digital frequency readout
- Power: 6 "D" Cells or AC

OPTIONAL ACCESSORY
- DCC-130: Car cord

Your Cost **$354.95** *Retail:* $439.95
Shpg Wt:17 lbs

SRF-80W

PORTABLE RADIO

- One-of-a-kind AM/FM Stereo Pocket Radio
- Sleep Timer
- AC/DC – 6V, 4 "C" cells
- Supplied: lightweight headphones; 2 - 4" speaker unit add-on; AC Adaptor

OPTIONAL ACCESSORY
- DCC-130: Car cord

Your Cost **$184.95** *Retail:* $219.95
Shpg Wt:6 lbs

Item No SOSRF80W

ICF-2001

MULTI-BAND RADIO

Item No SOIC2001

$269.95 *Retail:* $329.95

- FM/AM (SSB/CW) Portable Radio
- Direct Access Digital Tuning Keyboard/Frequency Readout
- Preset for 6 station memory
- Auto/Manual Scanning
- 4" speaker
- Sleep Timer
- AC/DC – 4.5V, 3 "D" & 2 "AA" cells
- Supplied: AC Adaptor/Carrying Strap

OPTIONAL ACCESSORIES
- AC-120W: AC Adaptor
- DCC-127A: Car cord

Shpg Wt:7 lbs

"IT'S A SONY"

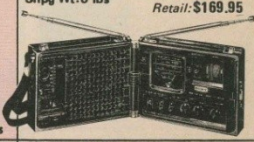
ICF-7800W

MULTI-BAND RADIOS

- FM/AM/PSB Portable Radio
- Folds to pocket size
- Black and silver gray
- Power: 4 "AA" Cells or AC (opt.)

OPTIONAL ACCESSORIES
- AC-9W: AC/Adaptor
- DCC-127A: Car cord

Item No SOIC7800 Your Cost **$139.95**
Shpg Wt:6 lbs *Retail:* $169.95



ICF-5900W

Item No SOIC5900

- Three Short Wave FM/AM Portable Radio
- Metallic gray
- Power: 3 "D" Cells or AC

OPTIONAL ACCESSORIES
- AC-110: AC/Adaptor
- DCC-127A: Car cord

Shpg Wt:9 lbs Your Cost **$149.95** *Retail:* $179.95

ICF-7600

PORTABLE RADIO

$134.95 *Retail:* $159.95 Item No SOIC7600

- 7 Band high quality portable radio
- FM/AM/SW 1-5
- Advanced SW Band spread tuning
- Trim, desk top cabinet design
- Powerful 3 inch dynamic speaker

OPTIONAL ACCESSORIES
- AC-9W: AC/Adaptor
- DCC-127A: Car cord

Shpg Wt:8 lbs

ICF-D11W

Item No SOICFD11

- FM/AM portable quartz digital clock radio
- LCD display for day, date, hour, minute, second and FM/AM radio frequency
- AC/DC battery operation with power plus design (2 "D" cells – 2 "AA" cells for clock)
- Silver metallic

OPTIONAL ACCESSORY
- AC-31: AC Adaptor

$169.95 *Retail:* $199.95

Shpg Wt: 8 lbs

ICF-M10W

PORTABLE RADIO

- FM/AM pocket size radio
- 7-FM/7-AM station preset
- Most advanced LSI circuitry
- Flexible FM antenna for "In the Pocket" operation
- PLL systemized FM/AM reception
- Silver aluminum front panel

Your Cost **$109.95** *Retail:* $129.95
Item No SOICFM10

Shpg Wt:3 lbs

ICF-7500W

- FM/AM portable radio
- Removable speaker
- Silver brushed aluminum and gray
- Power: 2 "AA" Cells

$74.95 *Retail:* $89.95

Shpg Wt:3 lbs

Item No SOIC7500

"IT'S A SONY"

PORTABLE RADIO

ICF-S5W

Your Cost **$65.95**

- Super Sensitive FM/AM portable radio
- Sensitivity Selector
- Oversized Ferrite Bar provides long-range reception
- Super Selectivity for weaker (hard to reach) stations
- 4" dynamic speaker
- AC/DC - 4.5V, 3 "C" cells

OPTIONAL ACCESSORIES
- AC-120W: AC Adaptor
- DCC-127A: Car cord

Item No SOICFS5W Shpg Wt:6 lbs

ICF-C33W

DIGIMATIC

- FM/AM digital clock radio
- LCD with quartz clock for perfect power backup
- Multi display; day, date, alarm set time, sleep time
- 3" front mounted speaker
- Rest assured system
- Silver metallic with blue LCD

$106.95 *Retail:* $119.95
Shpg Wt:6 lbs

Item No SOICFC33

CLOCK RADIOS ICF-C23W

$83.95
Your Cost
Item No SOICFC23

- FM/AM digital clock radio
- Twin time display
- Rest assured system
- Tone control
- Rich sound in high density wood particle cabinet
- Automatic dimmer control
- Woodgrain with silver accents

Shpg Wt:6 lbs

TCM-600 POCKET/PORTABLE CASSETTE CORDER

Shpg Wt:4 lbs

Item No. SOTCM600

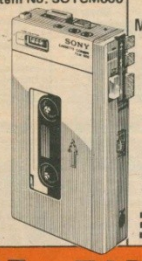
$224.95

Retail: $269.95

- Super-compact size
- One touch recording system
- Quick Review Button increases playback speed
- Coreless, servo controlled motor with built-in frequency generator
- AC/DC – 3V, 2 "AA" Cells

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Battery Pack	:	B P-33
Car Cord	:	DC-127A



M-203 MICRO CASSETTE CORDER

Shpg Wt:3 lbs

$87.95

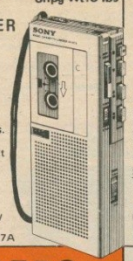
Retail: $99.95

Item No. SOM203

- Micro Cassette Corder.
- Automatic shut off.
- BSL coreless motor (up to 10 hrs. consecutive recording).
- One button recording/instant edit function.
- Tape counter.
- AC/DC - 3V, 2 "AA" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Battery Pack	:	BP-33
Car Cord	:	DCC-127A



M-200 MICRO CASSETTE CORDER

Item No. SOM200

$234.95

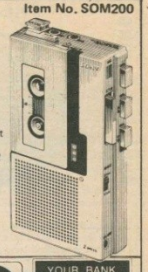
Retail: $279.95

Shpg Wt:3 lbs

Microcassette Corder.
One button recording/instant edit function.
BSL coreless motor (for up to 12 hrs. consecutive recording).
Supplied Access: AC Adaptor/ rechargeable battery pack.
AC/DC - 6V, 2 "A" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Battery Pack	:	BP-35C
Car Cord	:	DCC-127A



SONY TAPE RECORDERS

WE HONOR master charge THE INTERBANK CARD VISA YOUR BANK

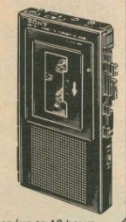
M-400B

Item No.SOM400B

Your Cost **$169.95**

Retail: $199.95

Shpg Wt:3 lbs



- Ultra slim micro.
- BSL coreless motor (up to 10 hours consecutive recording).
- Special safety - lock.
- Supplied Access: AC Adaptor.
- AC/DC -3V, 2 "AA" cells.

M-601

Item No. SOM601

Shpg Wt:5 lbs

- Desk-top Micro.
- Telephone Monitor.
- BSL coreless motor (up to 20 hrs. consecutive recording).
- Playback speed control.
- Supplied Access: AC Adaptor and Telephone pickup TP-16.
- AC/DC - 3V, 2 "C" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Car Cord	:	DCC-127A

Your Cost **$184.95**

Retail: $219.95

TCM-121 POCKET PORTABLE

Your Cost **$62.95**

Retail: $69.95

Item No. SOTCM121

- Pocket/portable.
- Tape counter.
- One button reading/recording instant edit function.
- Pre end alarm.

Shpg Wt:4 lbs

- AC/DC - 6V, 4 "A" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-9W
Battery Pack	:	BP-23
Battery Cord	:	DCC-127A

CASSETTE CORDER TCM-111

- Pocket/portable.
- Omni-directional 2-way microphone.
- Fast play back for quick review.
- One button recording/instant edit function.
- Supplied Access: AC Adaptor.
- AC/DC - 6V, 4 "AA" cells.

Your Cost **$87.95**

Retail: $99.95

Shpg Wt:3 lbs

Item No. SOTCM111

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-9W
Battery Pack	:	BP-23
Car Cord	:	DCC-127A

TCS-300

Item No. SOTCS300

Your Cost **$184.95**

Retail: $219.95

Shpg Wt:4 lbs

- Portable cassette player.
- Cue and review.
- Tone selector.
- Two headphone jacks.
- Hot line function.
- Right/left channel control.
- Supplied: MDR-3L2 light weight headphone.
- AC/DC - 3V, 2 "AA" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Battery Pack	:	BP-33
Car Cord	:	DCC-127A

TPS-L2

Item No. SOTPSL2

- Portable stereo recorder.
- Stereo playback through supplied MDR headpl nes.
- Built-in speaker for mono-playback.
- Left/right volume controls.
- Rugged easy-grip cabinet.
- AC/DC - 6V, 4 "AA" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-9W
Battery Pack	:	BP-23
Car Cord	:	DCC-127A

Your Cost **$169.95**

Retail: $199.95

Shpg Wt:3 lbs

TCM-747

Retail: $69.95

Item No. SOTCM747

Your Cost **$62.95**

Shpg Wt:5 lbs

- Desk top/portable.
- TAB marker system.
- One button record.
- Cue/review/locking pause.
- Supplied access: AC adaptor.
- AC/DC - 6V, 4 "C" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-9W
Car Cord	:	DCC-127A

TCM-280

Item No. SOTCM280

$169.95

Retail: $199.95

Shpg Wt:4 lbs

- Ultra-thin portable
- BSL coreless motor (up to 8 hrs. continuous recording).
- Quick review button.
- Supplied Access: AC adaptor.
- AC/DC - 3V, 2 "AA" cells

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-31W
Battery Pack	:	BP-33
Car Cord	:	DCC-127A

TCM-260

Item No. SOTCM260

$177.95

Retail: $209.95

- Miniaturized for space-saving on desk.
- TAB marker system.
- External microphone with TAB set button.
- Music/speech recording mode selector.
- Supplied Access: AC Adaptor.
- AC/DC - 6V, 4 "AA" cells.

OPTIONAL ACCESSORIES

AC Adaptor	:	AC-9W
Battery Pack	:	BP-61
Car Cord	:	DCC-127A

Shpg Wt:4 lbs

TCM-142

$224.95

Retail: $269.95

Shpg Wt:8 lbs

- 3-way system for instant tape monitoring
- Ferrite and ferrite record/playback head.
- Counter-inertial flywheel.

Item No. SOTCM142

- 3-digit tape counter.
- 4-way power supply.
- AC/DC - 6V, 4 "CC" cells.

OPTIONAL ACCESSORIES

Battery Pack	:	BP-16H
Car Cord	:	DCC-127A

CFM-23

Item No. SOCFM23

Shpg Wt:10 lbs

Your Cost **$72.95**

Retail: $79.95

- AM/FM portable cassette recorder.
- 2-way speaker 4" woofer/2" tweeter.
- Top-scan tuning.
- Variable level monitor.
- Tape counter.
- AC/DC - 6V, 4 "D" cells.

CFM-33

Item No. SOCFM33

$87.95

Retail: $99.95

Shpg Wt:10 lbs

- AM/FM portable cassette.
- New co-axial speaker system with 5" woofer/2" tweeter.
- Soft eject.
- Tone control.
- Tape counter.
- AC/DC - 6V, 4 "D" cells.

SONY ICF-C22W

- FM/AM digital clock radio
- Twin time display
- Rest assured system
- 4" speaker
- Tone control
- Lavender color display
- Silver metallic

Your Cost **$73.95**

Shpg Wt:6 lbs

Item NoSOICFC22

Item No SOICFC21 ICF-C21W

$65.95

- FM/AM digital clock radio
- Night Shift – sleep to one band & wake to another
- 4" front mounted speaker
- Dual function display
- Power back-up for clock
- Ease of use controls

SONY

Shpg Wt:6 lbs

Item No SOICFC20 ICF-C20W

DIGIMATIC CLOCK RADIO

- FM/AM digital clock radio
- Twin time display
- Rest assured system
- Manual brightness control
- 3" front mounted speaker
- Simulated woodgrain

Your Cost **$65.95**

Item No SOICF815 ICF-C815W

Your Cost **$55.95**

- FM/AM radio and electronic digital clock with fluorescent-glow
- All-electronic, touch sensitive Dream Bar
- Choice of radio or, morningbird alarm
- Solid wood cabinet

Shpg Wt:6 lbs

SONY ICF-C15W

- FM/AM digital clock radio
- Power back up system
- Fluorescent display
- Front mounted speaker
- Automatic/manual brightness control
- Woodgrain with silver accents

Item No SOICFC15 Your Cost **$46.95**

Shpg Wt:6 lbs

ICF-C11W

$37.95

Shpg Wt:5 lbs

- FM/AM digital clock radio
- Space saving cubic style
- Fluorescent display
- Automatic/manual brightness control
- Choice of colors: SILVER and WHITE

Item No SOICFC11

TRANSCEIVER ICB-1020

- CB Transceiver
- 40 Channels
- Power: 8 "AA" Cells or AC (opt.)

Your Cost **$169.95**

Retail:$199.95

Item No SOICB102

SONY ICF-9580W

DESK/TABLE RADIOS

Retail:$139.95

- FM/AM table radio
- Separate bass, treble and volume controls
- Walnut grain

Shpg Wt:10 lbs

Your Cost **$119.95**

Item No SOIC9580

ICF-9650W

- FM/AM table radio
- High density wood cabinet
- Super-size 6-1/4" speaker
- External antenna terminal for FM
- Walnut grain

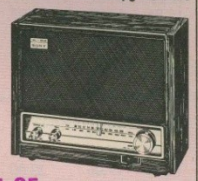
Shpg Wt:11 lbs

Your Cost **$64.95**

Item No SOIC9650

ICF-9640W Item No SOIC9640

Shpg Wt:9 lbs



$51.95 Your Cost

- FM/AM table radio
- "Hi-rise" design with high density wood
- Large 4-3/4" speaker
- Continuous tone control
- External antenna terminal for FM
- Walnut grain

Item No SOIC9630 ICF-9630W

- FM/AM table radio
- Wood grain finish grille
- Big 4" speaker
- External antenna terminal for FM
- Dark brown with simulated wood grain

Your Cost **$38.95**

Shpg Wt:8 lbs

$129.95 ICF-7760W

Your Cost

Retail: $149.95

Item No SOIC7760

- FM/MW/VHF TV/AIR/UHF
- PSB/VHF PSB multiband portable
- Dual conversion circuitry for PSB/Air reception
- Squelch control

Shpg Wt:10 lbs

- 5 segment LED tuning/battery meter
- Charcoal with silver face panel
- Power: 4 "C" cells or AC (opt.)

Your Cost **$55.95** Item No SOIC7750

ICF-7750W

- FM/MW/VHF TV/Weather Band
- Dual conversion (audio circuitry for interference free TV audio reception
- Built-in sleep timer
- AC/DC battery operation with power plus design (2 "D" cells)
- Brushed aluminum over charcoal

Shpg Wt:8 lbs

ICF-C411W Item No SOICC411

- FM/AM and VHF Weather Bank
- All-electronic, touch sensitive Dream Bar
- Choice of radio or buzzer alarm
- Sleeptimer
- Dark brown with gold trim

Your Cost **$43.95**

Shpg Wt:6 lbs

ICF-7740W Item No SOIC7740

Shpg Wt:8 lbs

- FM/AM portable radio
- AC/DC operation with power-plus design (2 "D" cells)
- FM station memory dial
- 4" speaker
- Tone control

Your Cost **$52.95**

SONY PORTABLE RADIO

SONY RADIO ACCESSORIES

PILLOW SPEAKER
(for radios with an earphone jack)
SODE25 $6.50

PLUG ADAPTOR
(stereo headphone to mini plug)
SOPC9A 4.50

PLUG ADAPTOR
(mini plug to phone plug)
SORK69A 3.50

HANDLING AND FREIGHT BY U.P.S. SURFACE — BY BLUE LABEL (AIR)

WEIGHT IN LBS.	Zone L	2	3	4	5	6	7	8	A	B	C	D	E
1	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	5.95	5.95
2	3.95	3.95	3.95	3.95	3.95	3.95	4.95	4.95	4.95	4.95	5.95	6.95	6.95
3	3.95	3.95	3.95	3.95	3.95	4.94	4.95	5.95	5.95	5.95	6.95	7.95	7.95
4	3.95	3.95	3.95	3.95	4.95	4.95	4.95	5.95	6.95	6.95	7.95	7.95	8.95
5	3.95	3.95	3.95	3.95	4.95	4.95	4.95	5.95	7.95	7.95	8.95	8.95	8.95
6	3.95	3.95	3.95	4.95	4.95	4.95	5.95	5.95	8.95	8.95	9.95	10.95	10.95
7	3.95	3.95	3.95	4.95	4.95	4.95	5.95	5.95	8.95	8.95	10.95	10.95	10.95
8	3.95	3.95	4.95	4.95	4.95	5.95	5.95	6.95	9.95	9.95	11.95	12.95	13.95
9	3.95	4.95	4.95	4.95	5.95	5.95	6.95	6.95	10.95	10.95	12.95	13.95	13.95
10	3.95	4.95	4.95	5.95	5.95	6.95	7.95	7.95	11.95	11.95	13.95	14.95	14.95
11	4.95	4.95	4.95	5.95	6.95	6.95	7.95	8.95	12.95	12.95	14.95	15.95	15.95
12	4.95	4.95	5.95	5.95	6.95	6.95	7.95	7.95	12.95	13.95	15.95	15.95	16.95
13	4.95	4.95	5.95	6.95	6.95	7.95	7.95	8.95	13.95	13.95	16.95	16.95	17.95
14	4.95	4.95	5.95	6.95	6.95	7.95	7.95	8.95	14.95	14.95	17.95	17.95	18.95
15	4.95	5.95	5.95	6.95	6.95	7.95	8.95	9.95	14.95	15.95	18.95	18.95	18.95
16	5.95	5.95	6.95	6.95	6.95	7.95	8.95	9.95	15.95	16.95	19.95	19.95	19.95
17	5.95	5.95	6.95	7.95	7.95	8.95	8.95	8.95	16.95	16.95	20.95	20.95	20.95
18	5.95	5.95	6.95	7.95	7.95	8.95	8.95	9.95	17.95	17.95	21.95	21.95	21.95
19	5.95	6.95	6.95	7.95	7.95	8.95	9.95	9.95	17.95	18.95	22.95	22.95	22.95
20	5.95	6.95	7.95	7.95	7.95	8.95	9.95	10.95	18.95	19.95	23.95	23.95	23.95
21	5.95	6.95	7.95	8.95	8.95	9.95	9.95	11.95	19.95	19.95	23.95	23.95	24.95
22	5.95	6.95	7.95	8.95	8.95	9.95	10.95	11.95	19.95	20.95	24.95	24.95	25.95
23	5.95	6.95	7.95	8.95	8.95	9.95	10.95	11.95	20.95	21.95	25.95	25.95	26.95
24	6.95	6.95	7.95	8.95	9.95	9.95	10.95	12.95	21.95	22.95	26.95	26.95	26.95
25	6.95	6.95	7.95	8.95	9.95	9.95	11.95	12.95	22.95	23.95	27.95	27.95	27.95
26	6.95	6.95	7.95	8.95	9.95	9.95	11.95	12.95	22.95	23.95	28.95	28.95	28.95
27	6.95	6.95	7.95	8.95	9.95	9.95	11.95	13.95	23.95	24.95	29.95	29.95	29.95
28	6.95	7.95	7.95	8.95	9.95	10.95	11.95	13.95	24.95	25.95	30.95	30.95	30.95
29	6.95	7.95	8.95	9.95	9.95	10.95	12.95	13.95	25.95	26.95	31.95	31.95	31.95
30	6.95	7.95	8.95	9.95	9.95	10.95	12.95	14.95	26.95	26.95	32.95	32.95	32.95
31	6.95	7.95	8.95	9.95	9.95	11.95	12.95	14.95	26.95	27.95	33.95	33.95	33.95
32	6.95	7.95	8.95	9.95	9.95	11.95	13.95	15.95	27.95	28.95	34.95	34.95	34.95
33	7.95	8.95	9.95	10.95	10.95	12.95	14.95	16.95	28.95	30.95	36.95	36.95	36.95
34	7.95	8.95	9.95	10.95	10.95	12.95	14.95	16.95	29.95	30.95	37.95	37.95	37.95
35	7.95	8.95	9.95	10.95	10.95	12.95	14.95	17.95	30.95	31.95	38.95	38.95	38.95
36	7.95	8.95	9.95	10.95	10.95	12.95	14.95	17.95	31.95	32.95	39.95	39.95	39.95
37	8.95	8.95	9.95	10.95	12.95	13.95	14.95	17.95	31.95	33.95	41.95	41.95	41.95
38	8.95	8.95	9.95	10.95	12.95	13.95	14.95	17.95	32.95	33.95	42.95	42.95	42.95
39	8.95	8.95	9.95	10.95	12.95	13.95	14.95	17.95	33.95	34.95	43.95	42.95	42.95
40	8.95	9.95	9.95	11.95	12.95	14.95	15.95	18.95	34.95	35.95	44.95	44.95	44.95
41	8.95	9.95	9.95	11.95	12.95	14.95	16.95	19.95	35.95	36.95	45.95	45.95	45.95
42	8.95	9.95	9.95	11.95	12.95	14.95	16.95	19.95	35.95	37.95	45.95	45.95	45.95
43	8.95	9.95	10.95	12.95	13.95	15.95	17.95	20.95	36.95	38.95	46.95	45.95	46.95
44	8.95	9.95	10.95	12.95	13.95	15.95	17.95	20.95	37.95	39.95	47.95	47.95	47.95
45	8.95	9.95	10.95	12.95	13.95	15.95	17.95	20.95	38.95	40.95	48.95	48.95	48.95
46	8.95	9.95	10.95	12.95	13.95	15.95	17.95	20.95	39.95	41.95	49.95	49.95	49.95
47	8.95	9.95	10.95	12.95	13.95	15.95	17.95	21.95	40.95	41.95	50.95	50.95	50.95
48	8.95	9.95	10.95	13.95	14.95	16.95	18.95	22.95	41.95	42.95	51.95	51.95	51.95
49	8.95	9.95	10.95	13.95	14.95	16.95	18.95	22.95	42.95	43.95	52.95	52.95	52.95
50	8.95	9.95	11.95	13.95	15.95	17.95	19.95	23.95	43.95	44.95	53.95	53.95	53.95

ZIP CODE PREFIX	ZONE	ZIP CODE PREFIX	ZONE	ZIP CODE PREFIX	ZONE	ZIP CODE PREFIX	ZONE	ZIP CODE PREFIX	ZONE	ZIP CODE PREFIX	ZONE
006-099	8	425-426	8	520-560	7	654-655	7	776-777	7	893-898	4
100-199	8	427	7	561	6	656-676	6	778-789	6	900-918	1
200-299	8	430-458	8	562-567	7	677	5	790-791	5	920-925	2
300-339	8	460-466	7	570-581	6	678	6	792	6	926-928	1
350-359	7	467-468	8	582	7	679	5	793-794	5	930-935	2
360-364	8	469	7	583-588	6	680-692	6	795-796	6	936-939	3
365-367	7	470	8	590-591	5	693	5	797-799	5	940-949	4
368	8	471-472	7	592-593	6	700-708	7	800-838	5	950-953	3
369-372	7	473	8	594	5	710-711	6	840-863	4	954-966	4
373-379	8	474-479	7	595	6	712-717	7	864	3	967-969	8
380-384	7	480-497	8	596-599	5	718-719	6	865	4	970-974	5
385	8	498-499	7	600-639	7	720-725	7	870-871	5	975-976	4
386-399	7	500-504	7	640-648	6	726-738	6	873-874	4	977-994	5
400-402	7	505	6	650-652	7	739	5	875-884	5	995-997	8
403-418	8	506-507	7	653	6	740-775	6	890-891	3	998-999	7
420-424	7	508-516	6								

INSURANCE: All UPS shipments are insured for your protection and ours. All orders up to $200.00 require an additional $1.00 for insurance. Orders over $200.00 require an additional fifty cents for each $100.00 increment.

Illustration:

If the package is worth $400.00, the required insurance should be a $2.00 coverage fee.

UPS Blue Label Air

ZONE A: CO, ID, MT, NM, OR, WA, WY
ZONE B: IL, IN, IA, KS, KY, MI, MN, MO, NE, ND, OH, OK, SD, TX, WI
ZONE C: AL, AR, CT, DE, DC, FL, GA, LA, ME, MD, MA, MS, NH, NJ, NY, NC, PA, RI, SC, TN, VT, VA, WV
ZONE D: HI*
ZONE E: AK*
*Partial Service Only. Call for Points Served.

PURCHASES FROM FIRMS

A Firms well rated with Bun and Bradstreet (DCI and Higher) may have an open account, terms: **NET TEN DAYS**

B Firms listed with Dun and Bradstreet and rated (1 or 2 or - -) Advance payment or COD terms, company check acceptable.

C Firms not listed with Dun and Bradstreet, advance payment with order or COD terms, must be either certified check, money order or cashiers check. Personal check will take over 30 days to clear - **before we ship the goods.**

D Any firm not rated with Dun and Bradstreet or listed without rating with D&B can apply for open account by sending the proper credit information: **Bank and three other well known vendors credit references;** complete with addresses, telephone numbers, and the name of the person to contact.

PRIVATE INDIVIDUALS

Please send a cashiers check, money or certified check with your order. You can also order by telephone and we will ship to you on COD basis, otherwise **certified checks, money orders or cashiers checks (or plain cash) will be accepted.** Please compute the freight charges and add to the cost of the units.

WE WILL BEAT ANY PRICE

All sales are F.O.B. our warehouse and shipping point in Los Angeles, California.
All goods are subject to availability. All prices are subject to changes without notice.
All sales are final without exception. We have absolutely no trial or demonstration periods.
All units sold by Olympic Sales Co. are fully guaranteed by each respective manufacturer and not by Olympic Sales Company.
Do not ship any defective units to Olympic Sales Co. for repair.

FOLD 1

Name

Address

City

State Zip

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

BUSINESS REPLY MAIL
FIRST CLASS PERMIT NO. 45387 LOS ANGELES, CALIF

POSTAGE WILL BE PAID BY ADDRESSEE

OLYMPIC SALES COMPANY, INC.
216 SOUTH OXFORD AVENUE
LOS ANGELES, CALIFORNIA 90004

FOLD 2

Used properly, this order form can be folded to create its own postage-paid envelope. Just fold where indicated in the order suggested (i.e., Fold 1, Fold 2, Fold 3, etc.); enclose payment and staple or tape ends, as noted. Be sure and complete the return address portion of the "envelope".

STAPLE OR TAPE HERE

YOUR BANK VISA®

WE HONOR

master charge THE INTERBANK CARD

Mail orders using VISA or Master Charge must include:
- Card number and expiration date.
- Name and address under which card was issued.
- Order must be signed by person to whom card was issued.

WE CAN SHIP ONLY TO NAME AND ADDRESS TO WHOM CARD IS REGISTERED.

- Minimum VISA or Master Charge order: $20.00.

STAPLE OR TAPE HERE

STAPLE OR TAPE HERE

PASADENA STORE

1756 East Colorado Blvd.
Pasadena, CA 91106

Phone:
213-577-1422 or 577-1429
Hours: Monday-Saturday
10:00 AM to 6:00 PM
Sunday, 12:00 PM to 5:00 PM

ONTARIO/UPLAND STORE

1030 West "I" Street
(at Mountain Ave.)
Ontario Plaza Shopping Center
Ontario, CA 91762

Phone:
714-986-2740 or 986-2749
Hours: Monday-Saturday
10:00 AM to 6:00 PM
Sunday, 12:00 PM to 5:00 PM

2300 Harbor Blvd., No. 11
(next to Thrifty Drug Store)
Harbor Shopping Center
Costa Mesa, CA 92626

Phone:
714-540-1530
Hours: Monday-Saturday
10:00 AM to 6:00 PM
Sunday, 12:00 PM to 5:00 PM

600 North Sepulveda Blvd.
(at Leonard's)
El Segundo, CA 90245

Phone:
213-322-2822 or 213-322-2823
Hours: Monday-Friday
10:00 AM to 7:00 PM
Saturday, 10:00 AM to 6:00 PM
Sunday: 12:00 PM to 5:00 PM

EL SEGUNDO STORE

COSTA MESA/NEWPORT STORE

OUTSIDE CALIFORNIA—
TOLL-FREE Order Lines: **800-421-8045**

SHOWROOM & WAREHOUSE

CALIFORNIA RESIDENTS—
Customer Service lines— (213) 381-3911 or 381-1202

LOS ANGELES STORE

216 South Oxford Avenue
P.O. Box 74545
Los Angeles, CA 90004

One block east of Western Ave., between Second & Third Streets (Wilshire District)

Phone:
213-381-3911 or 381-1202
800-421-8045 (outside Calif. only)

Hours: Monday-Saturday
8:00 AM to 6:00 PM
Call us for Sunday opening

ORDER FORM

NOW: TOLL-FREE ORDER LINE
(OUTSIDE CALIFORNIA)
(800)-421-8045
FROM CALIFORNIA AND FOR INFORMATION
(213)-381-3911

CABLE OLYRAV TELEX 67-34-77

Used properly, this order form can be folded to create its own postage-paid envelope. Just fold where indicated in the order suggested (i.e., Fold 1, Fold 2, Fold 3, etc.); enclose payment and staple or tape ends, as noted. Be sure and complete the return address portion of the "envelope".

Sold to: _____

Ship to (if different than sold to): _____

OLYMPIC SALES CO.
216 S. Oxford Ave.
Los Angeles, CA 90004

Gentlemen: Please ship the following goods.

NOTE: Payment in full must accompany all orders except those from established accounts.

Company Check, Money Order, or Cashiers Check must be with order for immediate shipment. Personal Checks will hold order up for 4 weeks until check clears.

☐Please send information and application for open account.

QUANT.	OSC Product No.*	DESCRIPTION *list: size, type style, color, etc. as applicable*	PAGE	UNIT COST	EXTENSION