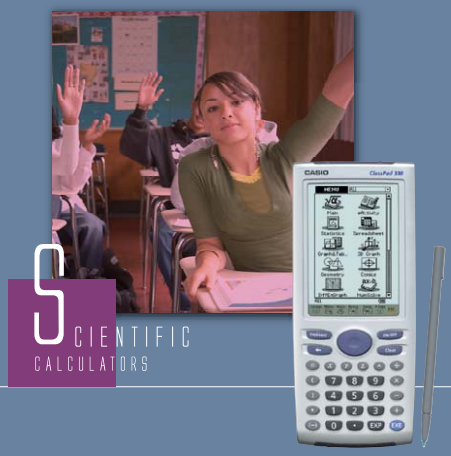
CASIO

OFFICE & SCHOOL & HOUSEHOLD EQUIPMENT

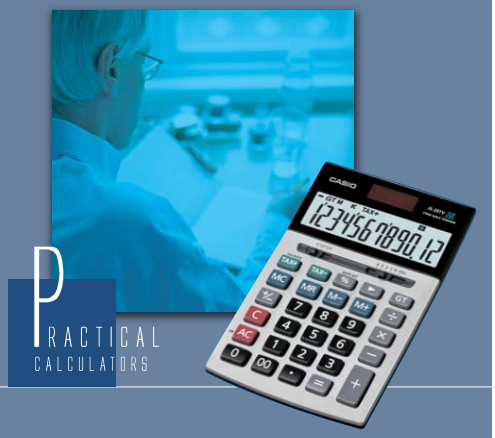
ELECTRONIC CALCULATORS

General Catalogue 2008-2009

Your Best Answer Reliable & Durable



SCIENTIFIC CALCULATORS



PRACTICAL CALCULATORS

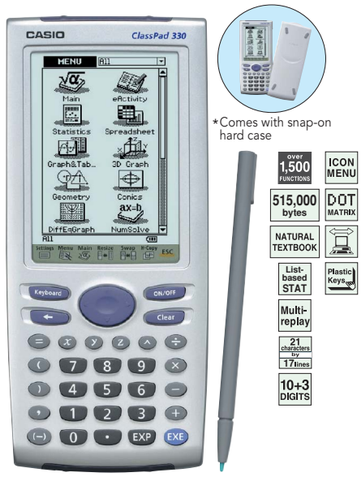
PRINTING CALCULATORS

LABEL PRINTERS

http://world.casio.com/

SCIENTIFIC CALCULATORS

GRAPHIC MODELS WITH CAS CAPABILITY



*Comes with snap-on hard case

over 1,500 FUNCTIONS
ICON MENU
515,000 bytes
DOT MATRIX
NATURAL TEXTBOOK
List-based STAT
Plastic Keys
Multi-replay
21 characters by 17 lines
10+3 DIGITS

ClassPad 330

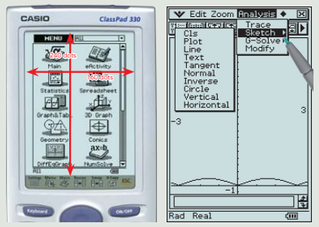
User-friendly Interface

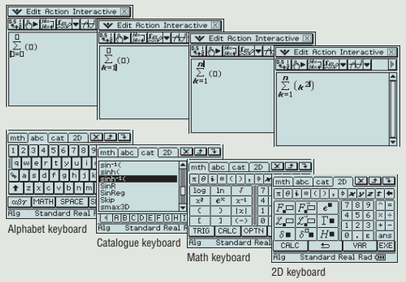
Pen Touch Operation

Intuitive stylus operation for entry of values and expressions, selection of menu commands, drag-and-drop copying of values and expressions, and much more. A big 160 × 240-dot LCD simplifies operation and shows more data per screen.

Natural Textbook Input and Output

Fractions, powers, and square roots, as well as high-level mathematical expressions such as log, Σ, ∫, d/dx, lim, matrices, F (Fourier transforms), and L(Laplace transforms) can be entered and displayed just as they appear in your textbook. An on-screen soft keyboard helps to simplify entry of complex expressions.

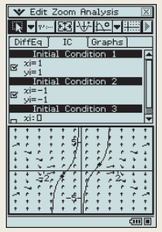




ClassPad 330 Built-in Applications

Differential Equation Application

The solution set of a differential equation can be represented graphically as a vector field, and solution curves can be drawn by providing initial conditions for the equation. First, second, and n-th order differential equations are supported.

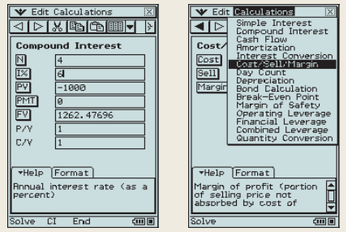


Advanced CAS (Computer Algebra System)

Base-n capabilities have been added for general-purpose numerical and mathematical calculations. Natural input/output mathematical functions have been expanded to include F (Fourier transforms), L (Laplace transforms), δ, Γ, H, and more.

Financial Application

This ClassPad 330 application provides you with a total of 15 different financial calculations, including simple/compound interest, cash flow, amortization, depreciation, bond calculation, operating/financial leverage, and more.

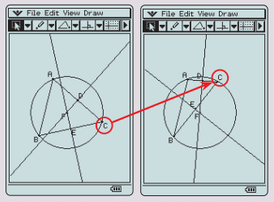


Improved Spreadsheet Application

Collected data can be organized and tabulated for analysis after statistical graphing is complete. Spreadsheet data also can be used in table calculations. In addition, ClassPad 330 adds the following functions: search, sort, data import from and export to lists, matrices, and variables, CellIf, and Histogram/Box-whisker graphing.

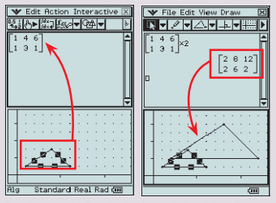
Geometry Application

Geometric Graphing



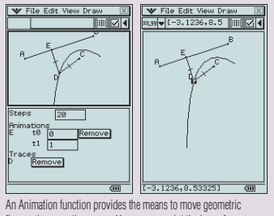
Students can learn the general theorems by drawing figures, and can confirm that a theorem still holds true even when the form of the triangle is altered.

Geometric Graphing Using Drag & Drop



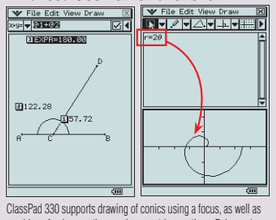
Dropping a geometric figure into the Main application window will produce the numerical data for the figure. Conversely, dropping numerical data into the Geometry window will produce the applicable figure.

Animation



An Animation function provides the means to move geometric figures drawn on the screen. You can even plot the locus for a particular point of the animation. The screenshot shows an example where Point D is plotted as the locus for Point E moving on Line AB.

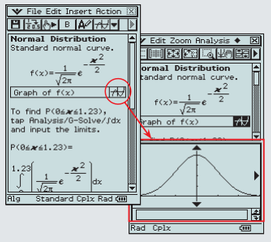
Enhanced Geometric Functions



ClassPad 330 supports drawing of conics using a focus, as well as graphing of polar equations and parametric equations. Enhanced labeling capabilities let you display attached angles, measurement-based calculation results, and more.

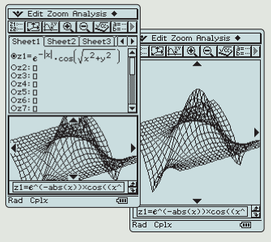
eActivity Application

An eActivity is like a digital worksheet that can be created and worked with on the ClassPad 330. All of the powerful features and capabilities of the ClassPad 330 can be incorporated into an eActivity. In addition to being able to perform the same calculations as the Main application, an eActivity will accept text entry, just like a word processor. Graphs, as well as Geometry and Spreadsheet data also can be stored in an eActivity file.



3D Graph Application

The 3D Graph Application lets you draw rectangular coordinate graphs ($z = f(x, y)$) and parametric function graphs ($xst = f(s, t)$, $yst = f(s, t)$, $zst = f(s, t)$). You can split the display screen between a 3D Graph Editor window and 3D Graph window, or enlarge the 3D Graph window to view a larger graph.



ClassPad 330 Specifications

ALGEBRA
- CAS (Computer Algebra System)
- Algebra Assistant
- Fractions • Transformation (simplify, expand, factor)
- Algebraic ($\sqrt{\ }$, x^2, x^{-1}, $x!$, $\sqrt[n]{\ }$, x^n)
- Simultaneous equations
- Real and Complex results • List • Matrix
- Combination $_nC_r$, Permutation $_nP_r$
- Exponents (log, ln, 10^x, e^x)
- Trigonometrics (sin, cos, tan, $\sin^{-1}$, $\cos^{-1}$, $\tan^{-1}$)
- Angle unit (Degree, Radian, Grad)
- Function graphing, polar, parametric and $x = f(y)$ equations
- Numeric evaluation of functions in tables
- Graph solve (root, max, intersection, inflection, distance)
- Conics graphs (Parabola, Circle, Ellipse, Hyperbola, General figure)
- Conics graph solve (Focus, Vertex, Directrix, Symmetry, Center, Radius)
- Recursive and explicit sequence numerical tables and plots
- Number Base (base 2 (Bin), 8 (Oct), 10 (Dec) and 16 (Hex))
- Laplace transform, Fourier transform, Fast Fourier transform (FFT)

CALCULUS
- Hyperbolics (sinh, cosh, tanh, $\sinh^{-1}$, $\cosh^{-1}$, $\tanh^{-1}$)
- Integration, Differential
- Differential equation
- Σ, Π, lim • Dirac Delta, Heaviside Unit Step, Gamma

STATISTICS
- List-based one- and two-variable statistical analysis
- Statistical regression calculations
- Statistical plot (Scatter Plot, xyLine, Normal Probability Plot, Histogram, Box-whisker plot)
- Statistical regression graphs
- Advanced statistical calculations (Tests, Confidence Intervals and Distribution calculations)

GEOMETRY
- Constraint geometry (for education)
- Construction figures (Perpendicular, Midpoint, Intersection, Angle Bisector, Parallel, Tangent to Curve)
- Geometry figures (Circle, Arc, Ellipse, Hyperbola, Parabola, Triangle, Rectangle, n-gon, Point, Line Segment, Ray, Vector)
- Geometry animation
- Numeric evaluation of geometry animation in tables
- Labels (Text, Attached Angle, Measurement, Expression)

eACTIVITY APPLICATION
- eActivity creation • eActivity exploration (execution)
- Geometry-Link in eActivity

OTHER USEFUL FEATURES
- Drag & drop • Natural format input of equations and expressions
- Natural format display of results • Math, Alphabet, 2D soft keyboards
- Command catalogue soft keyboard • Calculation History
- Mantissa + exponent: 15 + 3 • Interactive manipulation for solving equations
- 3-dimensional graphs • Differential equation graphs
- Numeric equation solver • Financial calculations • Presentation feature
- Program storage capacity: 500 KB (max) • Icon menus
- Full screen display/Split screen display
- Software upgradeability (maintenance, feature upgrades)
- User-defined variable • User-defined function (extends built-in functions)
- Folder-based memory management • Unit-to-unit screen image transfer
- Resetting/Initializing memory • Selectable display language
- Auto Power Off (APO) • Ending Screen/User-defined Ending Screen
- Bundled program-link software FA-CP1: This data transfer software runs on a Windows computer. You can use it to transfer certain ClassPad unit files and to back up all ClassPad unit data on your computer. You can also transfer ClassPad unit screen captures to your computer.

HARDWARE
- Dimensions: 21.0(H) × 84.0(W) × 189.5(D) mm
- Approximate weight: 280g
- Battery type: Four AAA-size batteries LR03 (AM4)
- Battery life: Approx. 140 hours continuous operation (assuming 5 minutes calculation and 55 minutes display per hour)
- Display type: 160 × 240-dot LCD
- Touch Panel (Pen Touch Operation) • User-available RAM: 500 KB
- User-available Flash ROM (Add-in area): 5.3 MB
- Data communication (via USB and 3-pin cables)
- USB cable for connecting with PC
- 3-pin cable for connecting with other ClassPad unit or EA-200

OPTIONS
- ClassPad Manager Version 3.0 FA-CP330A/B • EA-200 Data Analyzer
- OH-ClassPad 330 SET (Overhead projection model)

Latest OS update for ClassPad 300 series:
http://edu.casio.com/download_service/

ALGEBRA FX 2.0 PLUS

over 1,500 FUNCTIONS
146,000 bytes
768KB Flash Memory
List-based STAT
21 characters by 8 lines
10 DIGITS
10+2 DIGITS
ICON MENU
DOT MATRIX

- Large display (128 × 64 dots)
- Algebra Applications (Computer Algebra System, Algebra, Tutor) • Graphic functions and Graph solve functions • Dynamic graph
- Dual graph (Graph and Table, Graph and Graph)
- Conic section graph • Complex functions
- List function and list-based statistics
- Statistic calculations and graphs
- Graph solve • Integrations
- Differential and quadratic differential calculations
- BASIC-like program functions
- Linear equations from 2 to 30 unknowns
- 2 to 30 order equations
- Matrix operations with complex numbers
- Base-n calculations/conversions
- Add-in application with Flash Memory
- Includes a connecting cable for data transfer between two units
- Data communication (requires optional FA-123/ FA-123USB for connecting with PC)

*Comes with slide-on hard case

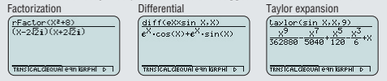
Main Functions

Algebra Applications

Computer Algebra System (CAS)

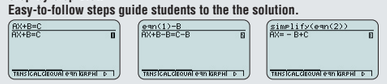
Using the Computer Algebra System (CAS), students can factor expressions, find limits of functions and calculate derivatives, integration and Taylor series expressions.
The CAS is a CASIO original algebra system that was devised through the cooperation of CASIO engineers, Profession John Kenelly, and other math instructors. It directly incorporates advice and suggestions from math teachers.

Factorization / Differential / Taylor expansion



Algebra

Easy equation manipulation by students
The Algebra application makes it possible for students to expand and simplify equations on their own as they derive solutions. After learning to solve problems using the Tutor application (see below), students can use the Algebra application to master the steps of solving algebra problems.
Step-by-step View
Easy-to-follow steps guide students to the the solution.



Tutor

Like having your own personal tutor always on hand to guide you along the way!
The TUTOR application guides student to the final solution, much like a teacher does in the classroom. The TUTOR application has three modes.
- Auto • Manual • Verify

Graphic Models

OVER 1,000 FUNCTIONS · 10+2 DIGITS · 63,000 bytes · ICON MENU · NATURAL TEXTBOOK · DOT MATRIX · List-based STAT · Plastic Keys · Multi-replay · 21 characters by 8 lines

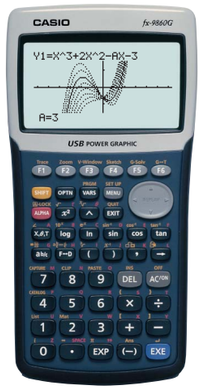
fx-9860G Slim

A compact and slim body with user-friendly design and interface

OVER 1,000 FUNCTIONS · 10+2 DIGITS · 63,000 bytes · ICON MENU · NATURAL TEXTBOOK · DOT MATRIX · List-based STAT · Plastic Keys · Multi-replay · 21 characters by 8 lines · SD CARD*

* *fx-9860G SD only*

fx-9860G SD



fx-9860G

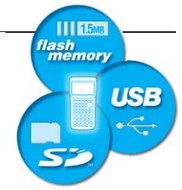
**Comes with new slide-on hard case*

An innovative approach for the math & science class environment

User-friendly Interface

- Large display (128 × 64 dots) • Graphic functions • Dynamic graph • Dual graph • Conic section graph • Regression graph • Graph solve
- Integrations • Differential and quadratic differential calculations • Complex number calculations • Table and graph • Recursion graph
- List-based statistics • Advanced statistics • BASIC-like program functions • Linear equations from two to six unknowns
- Quadratic equations, Cubic equations • Matrix operations • Base-*n* calculations/conversions • Financial function • Data communications
- High-resolution LCD • High-speed CPU • Large-capacity 1.5MB Flash Memory • Spreadsheet • eActivity • Add-in software
- Ready-to-use USB functions

Additional fx-9860G Slim functions: • Backlight • Help and on-screen guidance



Latest OS update and free Add-In software for fx-9860G series:

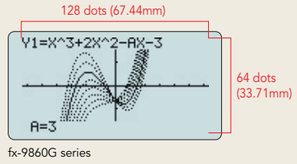
http://edu.casio.com/download_service/

Free Add-In software: •E-CON2 •Physium •Geometry

Hardware Features

• High-resolution LCD

The clear display of the fx-9860G high-resolution LCD combines with a larger dot area to produce formulas, graphs, and graphics that are larger and sharper.
The big, clear 64 × 128-dot display helps to improve study efficiency.



fx-9860G series

• High-speed CPU

A high-performance, high-speed CPU gives the fx-9860G Series calculators outstanding speed compared to other models.

• Large-capacity 1.5 MB Flash Memory

1.5 MB of Flash Memory provides plenty of storage space for downloaded data and applications, without the need to worry about running out of memory.

• Ready-to-use USB

fx-9860G calculators come with a USB cable, unit-to-unit cable, and Program-Link Software enabling out-of-the-box high-speed data and program transfer with a computer or another calculator.

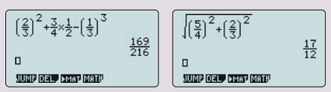
• SD Card Slot (fx-9860G SD only)

The fx-9860G SD is equipped with a SD card slot which allows easy data exchange.

Software Features

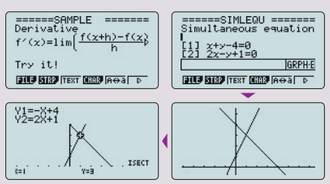
Natural Textbook Display

Fractions, roots, powers and integrals can be entered and displayed using the same format as used in your textbook, which contributes to student understanding. Results of fraction calculations also are displayed in natural format as they appear in the textbook.



eActivity

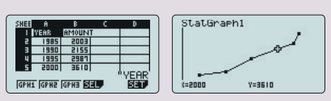
fx-9860G Series calculators include the popular eActivity function that originally appeared on the ClassPad 330. Now teachers as well as students can create their own problems and study materials. Students get the opportunity to learn at their own pace for more efficient study both at school and at home. eActivity also is a great motivator for learning and understanding.



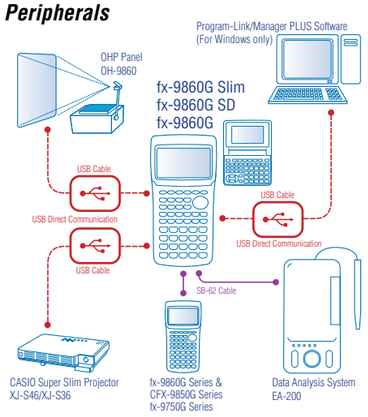
Built-in Software

Table calculations made easy by a built-in Spreadsheet feature

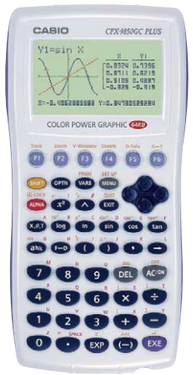
A multi-function Spreadsheet with built-in graphing capabilities is just the thing for table calculation lesson exercises.



Peripherals



COLOUR POWER GRAPHIC



905 FUNCTIONS · COLOUR LCD · 61,000 bytes* · List-based STAT · 21 characters by 8 lines · 10+2 DIGITS · ICON MENU · DOT MATRIX

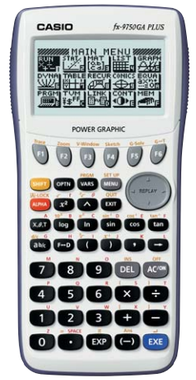
* User memory capacity: 61,000 bytes

CFX-9850GC PLUS

**Comes with snap-on hard case*

fx-9750GA PLUS

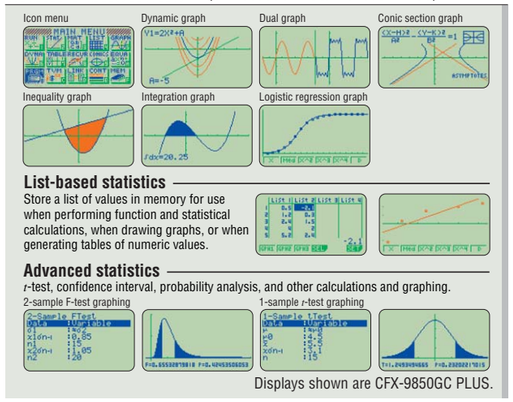
NEW



900 FUNCTIONS · 28,000 bytes · List-based STAT · 21 characters by 8 lines · 10+2 DIGITS · ICON MENU · DOT MATRIX

**Comes with Slide-on hard case*

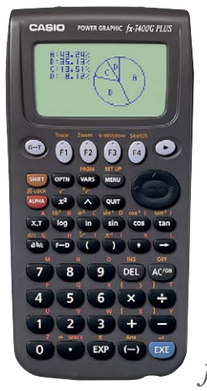
Main Functions (CFX-9850GC PLUS/fx-9750GA PLUS)



Displays shown are CFX-9850GC PLUS.

POWER GRAPHIC

- Large display (128 × 64 dots) • Graphic • functions • Dynamic graph • Dual graph
- Conic section graph • Regression graph • Graph solve • Integrations
- Differential and quadratic differential calculations • Complex number calculations
- Table and graph • Recursion graph • List-based statistics • Advanced statistics
- BASIC-like program functions • Linear equations from two to six unknowns
- Quadratic equations, Cubic equations • Matrix operations
- Base-*n* calculations/conversions • Financial function • Data communication



406 FUNCTIONS · 20,000 bytes · List-based STAT · 13 characters by 5 lines · 10 DIGITS or 9+2 DIGITS · ICON MENU · DOT MATRIX

POWER GRAPHIC

- Large display (80 × 48 dots) • Graphic functions (Rectangular coordinate graph, Parameter graph, Inequality graph, Integration graph, Statistical graph, View window memory, Trace, Box zoom, Sketch function)
- Table and graph • list-based statistics • Differentials
- Fraction function • BASIC-like program functions
- Data communications (requires optional FA-123/FA-123USB for connecting with PC)

**Comes with snap-on hard case*

fx-7400G PLUS

Main Functions

GRAPHS Draws the following types of graphs.

TRIGONOMETRY Performs calculations for trigonometric & inverse trigonometric functions.

STATISTICS

Standard Deviation Performs calculations of single-variable statistical data and graphs the result.

Regression Performs calculations of paired-variable statistical data and graphs the result.

Programmable Models

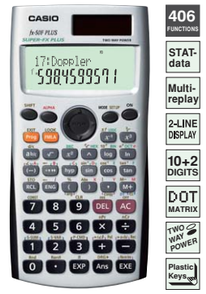
664 FUNCTIONS · 28,500 bytes · NATURAL TEXTBOOK · List-based STAT · Multi-replay · 10+2 DIGITS · DOT MATRIX · Plastic Keys

SUPER-FX PLUS

fx-5800P

Natural Textbook Display and MORE POWERFUL Program Functions

- Program function • Matrix calculations
- Differential and integration • Recursions
- Solve function • Complex number calculations
- Base-*n* calculations • Data transmission between two fx-5800P calculators • 26 to 2398 variables
- Fraction calculations • 40 scientific constants
- 128 built-in formulas • Multi-replay function
- Statistics (List-based Statistics, Standard deviation, Regression analysis) • Integrated hard case swings back a full 360 degrees.



406 FUNCTIONS · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · TWO-WAY POWER · Plastic Keys

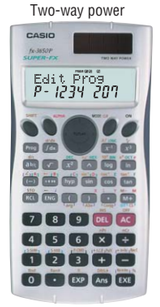
SUPER-FX PLUS

fx-50F PLUS
fx-50FH HKEAA approved model

BASIC-like Program, Perfect Algebraic Method, 2-line Display, Multi-replay Function

- Program function • Multi-replay function
- 2-line display • Fraction calculations
- Combination and permutation • 23 built-in formulas • 40 scientific constants
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 7 variables • Plastic keys
- Comes with slide-on hard case

Two-way power



279 FUNCTIONS · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

Button-type battery

SUPER-FX

fx-3650P

SUPER-FX

fx-3950P

Multi-replay Function, 2-line Display, Perfect Algebraic Method

- Program function • Multi-replay function
- 2-line display • Fraction calculations
- Combination and permutation • Differential and integration • Statistics (STAT-data editor, Standard deviation, Regression analysis)
- Base-*n* calculations/conversions
- Logical operations • Complex number calculations • 7 variables
- Plastic keys • Comes with snap-on hard case

242 FUNCTIONS · 2-LINE BIG DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

fx-4500PA

2-line Display and Program File System

- 2-line display shows formulas and results simultaneously • Versatile program area management: up to 1,103 program steps, and 26 (standard) to 163 variables
- Program file system for storing multiple programs • Replay function
- Engineering symbol calculations
- Formula memory • Integrations
- Statistics (Standard deviation, Regression analysis) • Base-*n* calculations/conversions
- Logical operations

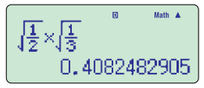
STANDARD MODELS

NATURAL-V.P.A.M.

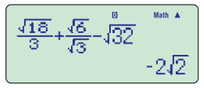
Natural textbook display format!

CASIO's original "Natural Expression Input Display" and "Natural Expression Output Display" make it possible to display fractions, exponents, logarithms, powers, and square roots just as they are written in the textbook. The result is enhanced student comprehension and improved math class efficiency.

Natural input
Input expressions and arithmetic operations as they appear in written form.



Natural output
Calculation results appear in the same format as they are written.



Full dot display
Equations and statistical data is displayed in a clear, easy-to-read format.

*Conventional input method can also be used.

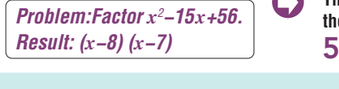
World's first*! — No one upgrades the classroom environment like CASIO!

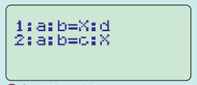
*According to information about non-programmable calculators available to CASIO COMPUTER CO., LTD. as of June 30, 2008

Ratio calculation (95ES PLUS)

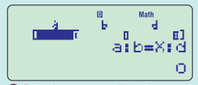
Select the ratio type and enter the non-x coefficients… → **The calculator displays the value of x.**

$a:b=x:d \rightarrow 1:2=x:10$ → $x=5$

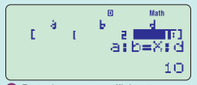




❶ Select the ratio type.



❷ Enter the non-x coefficients.



❸ Enter the non-x coefficients.

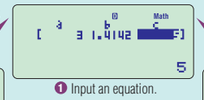
❹ X-value appears on the display.

New equation mode (95ES PLUS) (570ES PLUS) (991ES PLUS)

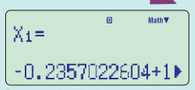
Input an equation… → **The calculator displays a solution using √ and fractions.**

$3x^2+\sqrt{2}\,x+5=0$ → $x=-\frac{\sqrt{2}}{6}\pm\frac{\sqrt{58}}{6}i$

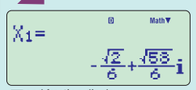
Previous / NEW



❶ Input an equation.



Decimal value display

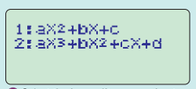


√ and fraction display

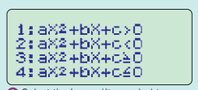
Inequality (95ES PLUS)

Select the inequality type and enter the non-x coefficients… → **The calculator displays the solution of the inequality**

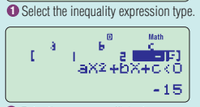
$x^2+2x-15<0$ → $-5<x<3$



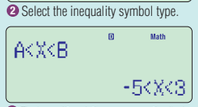
❶ Select the inequality expression type.



❷ Select the inequality symbol type.



❸ Enter the non-x coefficients.



❹ The inequality solution appears on the display.

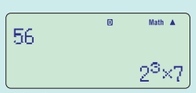
New feature! — The ES PLUS Series now is easier to use than ever!

Prime factorization (82ES PLUS) (85ES PLUS) (350ES PLUS) (95ES PLUS)

Determine the integers for a sum of –15 and a product of 56…

Problem: Factor $x^2-15x+56$.
Result: $(x-8)(x-7)$

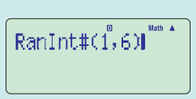
→ Input 56. → **The calculator displays the factors.** $56=2^3\times7$

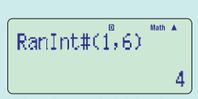


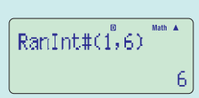
Factor display

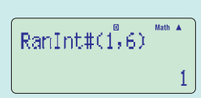
Random integers (82ES PLUS) (85ES PLUS) (350ES PLUS) (95ES PLUS) (570ES PLUS) (991ES PLUS)

Specify the range of random integers you want to generate… → **The calculator displays a random integer.**





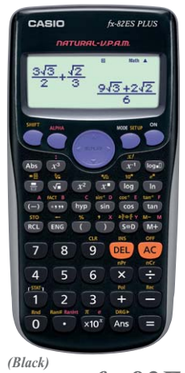




A random integer is displayed each time the equals (=) key is pressed.

Natural-V.P.A.M. Models

AAA-size (R03) battery



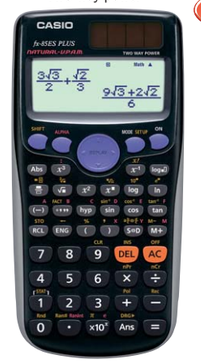
(Black)

(White)

NEW
252 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-82ES PLUS

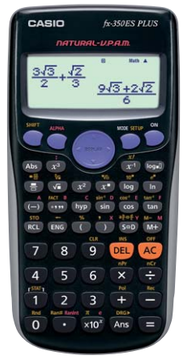
Two-way power



NEW
252 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-85ES PLUS

AAA-size (LR03) battery



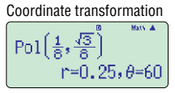
NEW
252 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-350ES PLUS

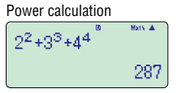
New functions: • Prime factorization • Random integers

Standard functions:
• Fraction calculations • Combination and permutation • Statistics (List-based STAT data editor, standard deviation, regression analysis)
• 9 variables • Table function • Comes with new slide-on hard case

Coordinate transformation

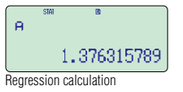


Power calculation

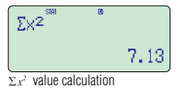


Statistics

Data registration

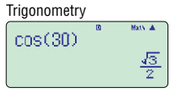


Regression calculation



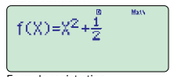
Σx^2 value calculation

Trigonometry

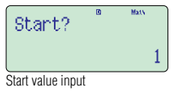


* During trigonometric calculations,only values that are a multipleof 15 can be displayed using square root form.

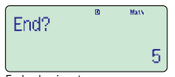
Table function



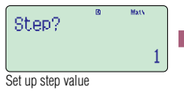
Formula registration



Start value input



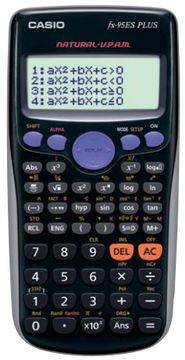
End value input



Set up step value

Table calculation

AAA-size (R03) battery



NEW
272 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-95ES PLUS

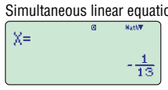
New functions: • Prime factorization • Ratio calculation • New equation mode • Inequality • Random integers

Standard functions:
• Fraction calculations • Combination and permutation • Statistics (List-based STAT data editor, standard deviation, regression analysis)
• 9 variables • Table function • Comes with new slide-on hard case

fx-82ES PLUS/85ES PLUS/350ES PLUS functions, in addition to:
• Equation calculations

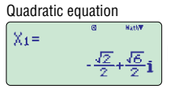
Equation menu

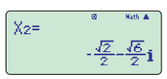
Simultaneous linear equations



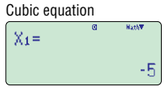
→


Quadratic equation



→


Cubic equation



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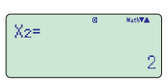
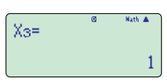
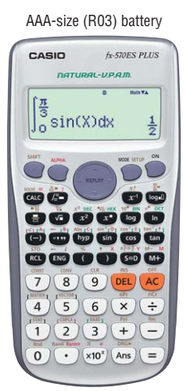


→


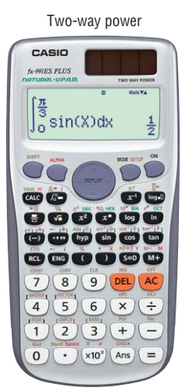
AAA-size (R03) battery



NEW
417 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-570ES PLUS

Two-way power



NEW
417 FUNCTIONS
NATURAL V.P.A.M.
List-based STAT
Multi-replay
10+2 DIGITS
DOT MATRIX
Plastic Keys

fx-991ES PLUS

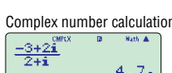
New functions: • New equation mode • Random integers

Standard functions:
• Fraction calculations • Combination and permutation
• Statistics (List-based STAT data editor, standard deviation, regression analysis)
• 9 variables • Table function • Comes with new slide-on hard case

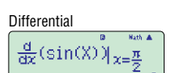
fx-82ES PLUS/85ES PLUS/350ES PLUS functions, in addition to:
• Equation calculations • Integration/differential calculations • Matrix calculations
• Vector calculations • Complex number calculations • CALC function
• SOLVE function • Base-n calculation

Integration

Complex number calculations

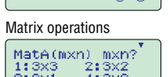


Differential



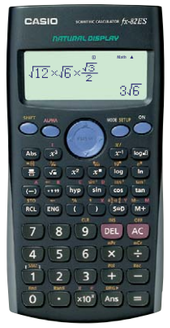
Vector

Matrix operations



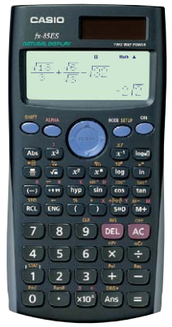
Natural Display Models

AAA-size (R03) battery



fx-82ES

Two-way power



fx-85ES

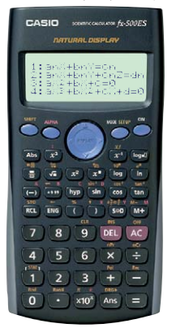
AAA-size (LR03) Alkaline battery

fx-350ES

249 FUNCTIONS · NATURAL TEXTBOOK · List-based STAT · Multi-replay · 10+2 DIGITS · DOT MATRIX · Plastic Keys

- Fraction calculations
- Combination and permutation
- Statistics (List-based STAT data editor, standard deviation, regression analysis)
- 7 variables
- Table function
- Comes with new slide-on hard case

AAA-size (R03) battery



fx-500ES

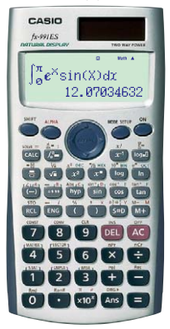
253 FUNCTIONS · NATURAL TEXTBOOK · List-based STAT · Multi-replay · 10+2 DIGITS · DOT MATRIX · Plastic Keys

- Fraction calculations
- Combination and permutation
- Statistics (List-based STAT data editor, standard deviation, regression analysis)
- 7 variables
- Table function
- Comes with new slide-on hard case

fx-82ES/85ES/350ES functions, in addition to:

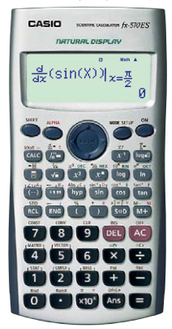
- Equation calculations

Two-way power



fx-991ES

AAA-size (R03) battery



fx-570ES

403 FUNCTIONS · NATURAL TEXTBOOK · List-based STAT · Multi-replay · 10+2 DIGITS · DOT MATRIX · Plastic Keys

- Fraction calculations
- Combination and permutation
- Statistics (List-based STAT data editor, standard deviation, regression analysis)
- 7 variables
- Table function
- Comes with new slide-on hard case

fx-82ES/85ES/350ES functions, in addition to:

- Equation calculations
- Integration/differential calculations
- Matrix calculations
- Vector calculations
- Complex number calculations
- CALC function
- SOLVE function
- Base-*n* calculation

S-V.P.A.M. Models

AA-size battery

fx-82MS

- Fraction calculations • Combination and permutation
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 9 variables • Comes with slide-on hard case

Two-way power

fx-85MS

Button-type battery

fx-350MS

240 FUNCTIONS · S-V.P.A.M. · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

AA-size battery

fx-95MS

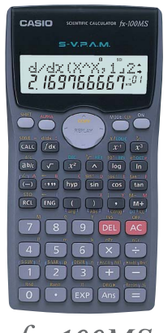
244 FUNCTIONS · S-V.P.A.M. · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

- Fraction calculations
- Combination and permutation
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 9 variables
- Comes with slide-on hard case

fx-82MS/85MS/350MS functions, in addition to:

- Equation calculations

AA-size battery



fx-100MS

Two-way power

fx-115MS

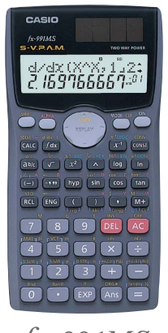
300 FUNCTIONS · S-V.P.A.M. · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

- Fraction calculations
- Combination and permutation
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 9 variables
- Comes with slide-on hard case

fx-82MS/85MS/350MS functions, in addition to:

- Equation calculations
- Integration/differential calculations
- Base-*n* calculations/conversions
- Complex number calculations

Two-way power



fx-991MS

Button-type battery

fx-570MS

401 FUNCTIONS · S-V.P.A.M. · STAT-data · Multi-replay · 2-LINE DISPLAY · 10+2 DIGITS · DOT MATRIX · Plastic Keys

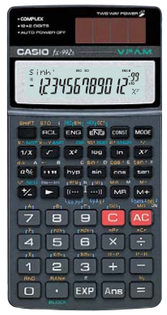
- Fraction calculations
- Combination and permutation
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 9 variables
- Comes with slide-on hard case

fx-82MS/85MS/350MS functions, in addition to:

- Equation calculations
- Integration/differential calculations
- Base-*n* calculations/conversions
- Complex number calculations
- Matrix calculations
- Vector calculations
- 40 scientific constants

S-V.P.A.M. Models

Two-way power



fx-992s

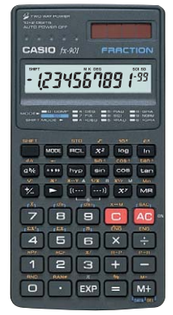
Built-in complex number calculations plus 128 scientific constants

- Statistical calculations
- Engineering symbol calculations
- Base-*n* calculations/ conversions

383 FUNCTIONS · V.P.A.M. · 12+2 DIGITS

** Comes with slide-on hard case*

Two-way power



fx-901

150 FUNCTIONS · 10+2 DIGITS

Includes cube calculations and angle unit conversions

- Fraction functions
- Combination and Permutation

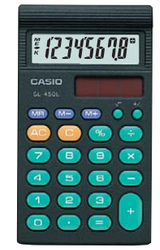
** Comes with slide-on hard case*

School Cal

Plastic keys and protective hardcase provide the best of operation and durability

BEST VIEW · SUPER SOLAR · Plastic Keys · Profit Margin % · ×÷ +/−

- Display: LCD • Digits: 8
- Simple algebraic logic
- Independent memory • %
- Profit margin % • √‾ • +/−
- 3-digit comma markers
- Power supply: solar
- Dimensions: 7.8(H) × 67(W) × 120(D) mm
- Approximate weight: 47 g



SL-450L 8 DIGITS

** Comes with slide-on hard case*

Financial Consultant

Two-way power

4-LINE DISPLAY · DOT MATRIX · 10+2 DIGITS · Plastic Keys

FINANCIAL CONSULTANT
FC-200V

AAA-size (R03) battery

4-LINE DISPLAY · DOT MATRIX · 10+2 DIGITS · Plastic Keys

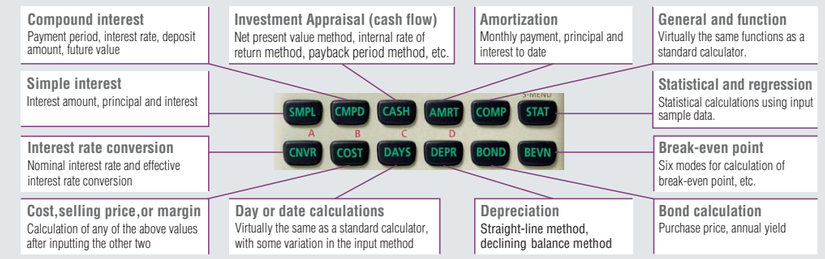
FINANCIAL CONSULTANT
FC-100V

- Plastic keys
- Comes with new slide-on hard case
- Power supply:
  Solar cell and a single G13 type button battery (LR44) (FC-200V)/ One AAA-size battery (FC-100V)
- Approximate battery life:
  3 years (1hour of operation per day) (FC-200V)/ 17,000 hours continuous display of flashing cursor (FC-100V)
- Dimensions:
  FC-200V/12.2(H) × 80(W) × 161(D) mm, FC-100V/13.7(H) × 80(W) × 161(D) mm
- Approximate weight:
  FC-200V/105g, FC-100V/110g

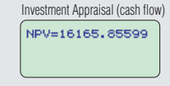
Powerful, original Financial Consultant features take much of the work out of financial calculations!

Direct mode key

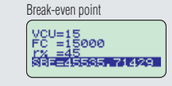
A bank of mode keys provides you with one-touch access to the mode you need.



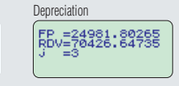
Investment Appraisal (cash flow)



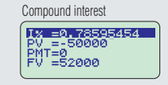
Break-even point



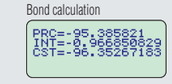
Depreciation



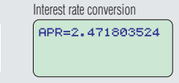
Compound interest



Bond calculation



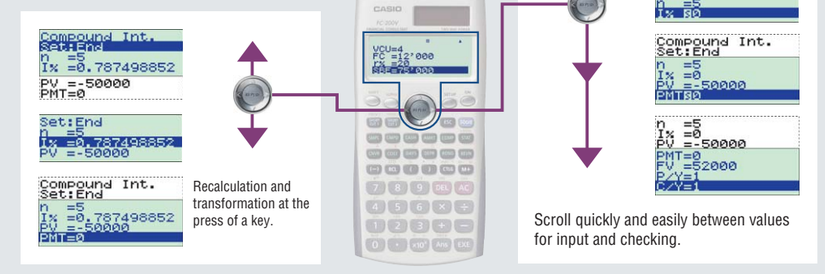
Interest rate conversion



	FC-200V	FC-100V
Simple interest	●	●
Compound interest	●	●
Investment Appraisal (cash flow)	●	●
Amortization	●	●
Interest rate conversion	●	●
Cost,selling price,or margin	●	●
Day or date calculations	●	●
Depreciation	●	—
Bond calculation	●	—
Break-even point	●	—
General and Function	●	●
Statistical and regression	●	●

Easy operation with parameters

A full-dot 4-line display provides easier scrolling between parameters and simplifies input, confirmation, and editing.



Calculate the result.

The result appears immediately after you press the SOLVE key.

Create shortcuts.

Once you use a parameter value or setting in a calculation, you can assign it to a shortcut key for instant recall whenever you need it. This feature is great for repeat calculations.

Calculators in the Classroom

Supporting options for graphic scientific calculators

SUPPORT CLASSROOM math TECHNOLOGY

Data Analysis System

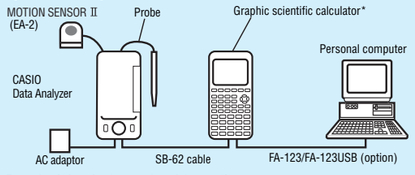
Quick and accurate collection supports data analysis.

EA-200

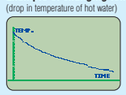
- Collect data at rates of up to 50,000 points per second for up to 120,000 points.
- Compatible with the CASIO fx-7400 series, CFX-9850 series, ALGEBRA FX 2.0 series, fx-9860G series, and ClassPad series.

Includes:
- CASIO Data Analyzer
- Temperature probe
- Optical probe
- Voltage probe
- Data communication cable: SB-62
- AC adaptor: AD-A60024
- Soft case
- Four AA-size alkaline batteries

System Configuration



Example of changing temperature data over time
(drop in temperature of hot water)



*ClassPad 330/fx-9860G Slim/fx-9860G SD/fx-9860G/ClassPad 300 PLUS/ ClassPad 300/ALGEBRA FX 2.0 PLUS/FX 1.0 PLUS/ALGEBRA FX 2.0/FX 1.0/ CFX-9850GB PLUS/CFX-9850GC PLUS/CFX-9950GB PLUS/fx-9750G/ fx-9750G PLUS/fx-9750GA PLUS/fx-7450G/fx-7400G PLUS/RM-ALGEBRA FX 2.0/ RM-ClassPad PLUS/RM-7000/RM-9000/RM-9850Ga PLUS/OH-ClassPad 330/ OH-ALGEBRA FX2.0)/OH-9000/VI-9850Ga PLUS/VI-9850GB PLUS

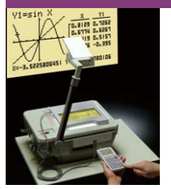
MOTION SENSOR II

EA-2

*Supplies extremely limited

The EA-2 emits ultrasonic pulses and detects pulses returned as echoes from the target. It can be connected to the CASIO EA-200 Data Analyzer to accumulate and analyze data.

Graphic Scientific Calculator Projection Set



Simply place the supplied calculator onto an OHP unit to project screen contents onto a screen for easy viewing by everyone in the classroom. The calculator can be controlled remotely by a hand-held calculator.

All the functions of the ClassPad 330

OH-ClassPad 330 SET

Includes:
- Graphic scientific unit: OH-ClassPad 330 (same functions as ClassPad 330)
- Projection unit: OH-30
- Data transfer cable: SB-62
- PC-Link cable: USB
- Carrying bag

All the functions of the ALGEBRA FX 2.0 PLUS

OH-ALGEBRA FX 2.0 SET

Includes:
- Graphic scientific unit: OH-ALGEBRA FX 2.0 (same functions as ALGEBRA FX 2.0 PLUS)
- Projection unit: OH-15
- Data transfer cable: SB-62
- PC-Link cable: SB-87
- AC adaptor: AD-A60024
- Carrying bag

All the functions of the CFX-9850GC PLUS

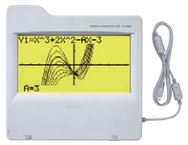
OH-9000 SET

Includes:
- Graphic scientific unit: OH-9000 (same functions as CFX-9850GC PLUS)*

*CFX-9850GC PLUS functions can be replaced with fx-7400G PLUS functions using data on the bundled CD-ROM.

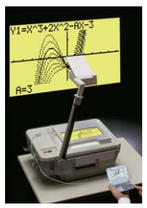
- Projection unit: OH-15
- Data transfer cable: SB-62
- PC-Link cable: SB-87
- AC adaptor: AD-A60024
- CD-ROM for Windows® (Program-Link software, fx-7400G PLUS, CFX-9850GC PLUS and fx-9750GA PLUS function data)
- Carrying bag

OHP Projection Model



OH-9860

Makes lessons more interesting



Simply use a USB cable to connect an fx-9860G SD, fx-9860G, or fx-9860G Slim calculator to the OH-9860 to project the contents of the calculator display. This option lets students or teachers connect and project for classroom presentations. All of this makes class activities more interesting and challenging, and improves student learning and understanding.

A powerful classroom presentation tool! OHP projects display contents onto a big screen!

OH-300ES PLUS
OH-300ES
OH-300MS

- OH-300ES PLUS provides the same powerful functions as the fx-82ES PLUS/85ES PLUS/ 350ES PLUS.
- OH-300ES provides the same powerful functions as the fx-82ES/85ES/350ES.
- OH-300MS provides the same powerful functions as the fx-82MS/85MS/350MS.

Simply place this transparent option onto an OHP to project its image and explain both screen contents and key operations.

Software

ClassPad Manager for ClassPad 330 Ver. 3.0

- FA-CP330A Ver. 3.0 (Single License)
- FA-CP330B Ver. 3.0 (School License)

- Laplace Transform/Fourier Transform
- Geometry Application
- Financial Function
- Differential Equation Application
- Spreadsheet Application
- Data communication with ClassPad 330 series calculators

System Requirements
Computer: Recommended Intel® Pentium® III 500 MHz with USB
Operating Systems: Windows® 98SE/Me, Windows® 2000/XP, Windows Vista®
Disk Space: 100 MB available for installation
Memory: Recommended for operating system

FA-9860A Ver. 1.1
(Manager PLUS for fx-9860G Series)

Simulates the functions of the fx-9860G series on your PC!

- Classroom Activity Support Functions of the fx-9860G series: Key-Log File Creation and Screen Capture Function
- Screen Receiver Function: Allows real-time reproduction of the fx-9860G series' display on your PC screen.

System Requirements
Computer: Recommended Intel® Pentium® III 800 MHz with USB
Operating Systems: Windows® 98SE/Me, Windows® 2000/XP or Windows Vista®
Disk Space: 100 MB available for installation
Memory: Recommended for operating system

fx-ES Emulator
(for fx-82ES Series Ver. 1.1)

fx-ES PLUS Emulator
(for fx-82ES PLUS Series Ver. 1.0) NEW

Easy emulator image resizing
Easy LCD window resizing
Easy captured LCD image resizing

- Emulation of fx-82ES Series and fx-82ES PLUS Series
  Emulation of fx-82ES Series and fx-82ES PLUS Series calculator operation using your computer mouse and keyboard.
- Emulator LCD screen image capture

System Requirements
*Operating Systems: Windows® 2000, Windows® XP, Windows Vista® (fx-ES PLUS Emulator only)**

** For Windows Vista, operation is supported for 32-bit versions only. 64-bit versions are not supported.*

- FA-123USB Data Communication Package
  *Supplies extremely limited

Scientific Calculators Specification Table

		Graphic Models								Programmable Models		
		ClassPad 330	ALGEBRA FX 2.0 PLUS	fx-9860G Slim	fx-9860G SD	fx-9860G	CFX-9850GC PLUS	fx-9750GA PLUS	fx-7400G PLUS	fx-5800P	fx-50F PLUS fx-50FH	fx-3650P
Specifications	Number of functions	(Over 1,500)*6	Over 1,500	(Over 1,000)*6	(Over 1,000)*6	(Over 1,000)*6	905	900	406	664	406	279
	Power supply (Main)	AAA × 4	AAA × 4	AAA × 2	AAA × 4	AAA × 4	AAA × 4	AAA × 4	AAA × 2	AAA × 1 (LR03)	Two-way power (Solar + LR44 × 1)	Two-way power (Solar + LR44 × 1)
	Power supply (Backup)	—	CR2032 × 1	—	—	—	CR2032 × 1	CR2032 × 1	CR2032 × 1	—	—	—
	Approximate battery life Main (hours)	140 (LR03)*1	140 (R03)*2/ 230 (LR03)*2	140 (LR03)*1	300 (LR03)*1	300 (LR03)*1	180 (R03)*2/ 320 (LR03)*2	240 (R03)*2/ 420 (LR03)*2	900 (R03)*2/ 1,500 (LR03)*2	1 year*3	3 years (LR44)*3	3 years (LR44)*3
	Approximate battery life Backup (years)	—	2	—	5	5	2	2	2	—	—	—
	Dimensions H×W×D(mm)	21 × 84 × 189.5	19.5 × 82 × 178	20.7 × 122 × 89	24 × 92.5 × 184.5	24 × 92.5 × 184.5	24.5 × 90 × 182.5	21.6 × 87 × 179.5	23 × 85.5 × 169	15.1 × 81.5 × 163	12.2 × 80 × 161	11.8 × 80 × 159
	Approximate weight (g)	280	213	200	265	260	215	205	185	150	105	100
	Case style	Snap-on hard	Slide-on hard	—	Slide-on hard	Slide-on hard	Snap-on hard	Slide-on hard	Snap-on hard	Integrated hard	Slide-on hard	Snap-on hard
	Dot matrix display	160 × 240 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	64 × 128 dots	48 × 80 dots	31 × 96 dots	5 × 7 dots × 16 digits	5 × 6 dots × 12 digits
	Display capacity (characters)	20 × 17	21 × 8	21 × 8	21 × 8	21 × 8	21 × 8	21 × 8	13 × 6	16	16	12
	Mantissa + exponent digits	10 + 3	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 (9 + 2)	10 + 2	10 + 2	10 + 2
	Icon menus	●	●	●	●	●	●	●	●	—	—	—
	Internal operation digits	15	15	15	15	15	15	15	15	15	15	12
	Nested parentheses levels	Up to memory	26	26	26	26	26	26	26	26	24	24
Programming Functions	Program logic	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	● (BASIC-like)	●
	Memory (bytes)	515,000	146,000	63,000	63,000	63,000	61,000	28,000	20,000	28,500	680	360
	Program areas	Up to memory	Up to memory	Up to memory	Up to memory	Up to memory	Up to memory	Up to memory	Up to memory	Up to memory	4	4
	Storage memory area (Flash memory)	5.3MB	768KB	1.5MB	1.5MB	1.5MB	—	—	—	—	—	—
	Built-in formulas	—	—	—	—	—	—	—	—	128	23	—
Utilities	Natural textbook display / NATURAL-V.P.A.M.	●	—	●	●	●	—	—	—	●	—	—
	Key rollover function	●	●	●	●	●	●	●	●	●	●	●
	Replay function	(History)	●	●	●	●	●	●	●	●	●	●
	Multi-replay functions	(History)	●	●	●	●	●	●	●	●	●	●
	Replay copy	—	—	—	—	—	—	—	—	—	—	—
	Backspace	●	—	●	●	●	—	—	—	●	●	●
	CALC function	—	—	—	—	—	—	—	—	●	—	—
	SOLVE function	●	●	●	●	●	●	—	—	●	—	—
	Answer function	●	●	●	●	●	●	●	●	●	●	●
	Variables	Up to memory	28	28	28	28	28	28	26	26 – 2398	7	7
	Onboard function manual	—	—	●	—	—	—	—	—	—	—	—
	Syntax help	—	—	●	—	—	—	—	—	—	—	—
	Auto power off	●	●	●	●	●	●	●	●	●	●	●
Special Features	Base-*n* calculations (Binary/Octal/Hexadecimal)	●	●	●	●	●	●	●	—	●	●	●
	Logical operations	●	●	●	●	●	●	●	—	●	●	●
	Engineering symbol calculations	—	●	●	●	●	●	●	—	●	—	—
	Engineering notation (ENG/ENG)	—	●	●	●	●	●	●	—	●	●	●
	Scientific constants	—	—	—	—	—	—	—	—	40	40	—
	Metric conversions	—	—	—	—	—	—	—	—	—	—	—
CAS	Computer Algebra System	●	●	—	—	—	—	—	—	—	—	—
Basic Functions	Trigonometric, inverse trigonometric (sin/cos/tan/$\sin^{-1}$/$\cos^{-1}$/$\tan^{-1}$)	●	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/$\sinh^{-1}$/$\cosh^{-1}$/$\tanh^{-1}$)	●	●	●	●	●	●	●	—	●	●	●
	Exponential, logarithmic (log, ln, 10^x, e^x)	●	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	●	—	●	●	●	—	—	—	●	●	—
	Power and radical root (x^y/$\sqrt[x]{\ }$)	●	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	—	—	—	—	—	—	—	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	—	—	—	—	—	●	—	—	—
	Integer division	—	—	—	—	—	—	—	●	—	—	—
	Sexagesimal ↔ decimal	●	●	●	●	●	●	●	●	●	●	●
	Display format (FIX, SCI)	●	●	●	●	●	●	●	●	●	●	●
	Angle unit (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●	●
	Angle unit conversion (Deg, Rad, Grad)	● / ● / —	●	●	●	●	●	●	●	●	●	●
	Factorization into prime factors	—	—	—	—	—	—	—	—	—	—	—
	Ratio calculation	—	—	—	—	—	—	—	—	—	—	—
Calculus	Differentiation calculation	●	●	●	●	●	●	●	●	●	—	●
	Integration calculation	●	●	●	●	●	●	●	—	●	—	●
Algebra	Simultaneous equation	●	● (30 unknowns)	● (6 unknowns)	● (6 unknowns)	● (6 unknowns)	● (6 unknowns)	● (6 unknowns)	—	● (5 unknowns)	—	—
	Polynomial equation	●	● (Degree 2–30)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	—	● (Degree 2, 3)	—	—
	Inequality calculation	—	—	—	—	—	—	—	—	—	—	—
	Table function	●	●	●	●	●	●	●	●	●	—	—
	Matrix calculations	●	●	●	●	●	●	●	—	●	—	—
	Complex number calculation	●	●	●	●	●	●	●	—	●	●	●
Geometry	Coordinate conversion (Pol, Rec)	●	●	●	●	●	●	●	●	●	●	●
	Vector calculations	●	—	—	—	—	—	—	—	—	—	—
Probability	Combination, permutation (*n*Cr, *n*Pr)	●	●	●	●	●	●	●	●	●	●	●
Statistics	Random numbers	●	●	●	●	●	●	●	●	●	●	●
	Random integers	—	—	—	—	—	—	—	—	—	—	—
	List-based STAT data editor	●	●	●	●	●	●	●	●	●	●	●
	Standard deviation	●	●	●	●	●	●	●	●	●	●	●
	Regression analysis	●	●	●	●	●	●	●	●	●	●	●
	Linear regression	●	●	●	●	●	●	●	●	●	●	●
	ab Exponential regression	●	—	—	—	—	—	—	—	●	—	—
	Advanced statistics	●	●	●	●	●	●	●	—	—	—	—
	Other regressions	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Log, Exp, Pwr	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad
Finance	Financial function	●	●	●	●	●	●	●	—	—	—	—
Spreadsheet	Spreadsheet	●	—	●	●	●	—	—	—	—	—	—
Others	eActivity	●	—	● (eActivity Guide)	●	●	—	—	—	—	—	—
	Data communication	●	●	●	●	●	●	●	●	●	—	—
	Others	Picture, Presentation, 3D graph, DiffEq Graph	Recursions	Recursions Backlight display	Recursions	Recursions	Recursions	Recursions	—	Recursions	—	—

*1 Continuous operation (assuming 5 minutes calculation and 55 minutes display per hour) *2 Continuous display of main menu *3 1 hour use per day *4 Continuous display of flashing cursor *5 When left with power turned off *6 Changes when OS is updated

Scientific Calculators Specification Table

		Programmable Models		Standard Models									
		fx-3950P	fx-4500PA	fx-82ES PLUS	fx-85ES PLUS	fx-350ES PLUS	fx-95ES PLUS	fx-991ES PLUS	fx-570ES PLUS	fx-82ES	fx-85ES	fx-350ES	fx-500ES
Specifications	Number of functions	279	242	252	252	252	274	417	417	249	249	249	253
	Power supply (Main)	LR44 × 1	CR2032 × 1	AAA × 1 (R03)	Two-way power (Solar + LR44 × 1)	AAA × 1 (LR03)	AAA × 1(R03)	Two-way power (Solar + LR44 × 1)	AAA × 1 (R03)	AAA × 1 (R03)	Two-way power (Solar + LR44 × 1)	AAA × 1 (LR03)	AAA × 1 (R03)
	Power supply (Backup)	—	CR2032 × 1	—	—	—	—	—	—	—	—	—	—
	Approximate battery life Main (hours)	9,000*4/ 3 years*5	5,000*4	17,000*4	3 years (LR44)*2	8,700*1	17,000*4	3 years (LR44)*3	17,000*4	17,000*4	3 years (LR44)*3	8,700*1	17,000*4
	Approximate battery life Backup (years)	—	2	—	—	—	—	—	—	—	—	—	—
	Dimensions H×W×D(mm)	11.8 × 80 × 159	9.9 × 73 × 141.5	13.8 × 80 × 162	11.1 × 80 × 162	13.8 × 80 × 162	13.8 × 80 × 162	11.1 × 80 × 162	13.8 × 80 × 162	13.7 × 80 × 161	12.2 × 80 × 161	13.7 × 80 × 161	13.7 × 80 × 161
	Approximate weight (g)	100	85	100	95	100	100	95	100	110	105	110	110
	Case style	Snap-on hard	Wallet	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard
	Dot matrix display	5 × 6 dots × 12 digits	5 × 7 dots × 12 digits	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots	31 × 96 dots
	Display capacity (characters)	12	12	15	15	15	15	15	15	15	15	15	15
	Mantissa + exponent digits	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2
	Icon menus	—	—	—	—	—	—	—	—	—	—	—	—
	Internal operation digits	12	12	15	15	15	15	15	15	15	15	15	15
	Nested parentheses levels	24	24	24	24	24	24	24	24	24	24	24	24
Programming Functions	Program logic	●	●	—	—	—	—	—	—	—	—	—	—
	Memory (bytes)	360	1,103	—	—	—	—	—	—	—	—	—	—
	Program areas	4	Up to memory	—	—	—	—	—	—	—	—	—	—
	Storage memory area (Flash memory)	—	—	—	—	—	—	—	—	—	—	—	—
	Built-in formulas	—	—	—	—	—	—	—	—	—	—	—	—
Utilities	Natural textbook display / NATURAL-V.P.A.M.	—	—	●	●	●	●	●	●	●	●	●	●
	Key rollover function	●	●	●	●	●	●	●	●	●	●	●	●
	Replay function	●	●	●	●	●	●	●	●	●	●	●	●
	Multi-replay functions	●	—	●	●	●	●	●	●	●	●	●	●
	Replay copy	—	—	—	—	—	—	—	—	—	—	—	—
	Backspace	●	●	●	●	●	●	●	●	●	●	●	●
	CALC function	—	●	—	—	—	—	●	●	—	—	—	—
	SOLVE function	—	—	—	—	—	—	●	●	—	—	—	—
	Answer function	●	●	●	●	●	●	●	●	●	●	●	●
	Variables	7	26 – 163	9	9	9	9	9	9	7	7	7	7
	Onboard function manual	—	—	—	—	—	—	—	—	—	—	—	—
	Syntax help	—	—	—	—	—	—	—	—	—	—	—	—
	Auto power off	●	●	●	●	●	●	●	●	●	●	●	●
Special Features	Base-*n* calculations (Binary/Octal/Hexadecimal)	●	●	—	—	—	—	●	●	—	—	—	—
	Logical operations	●	●	—	—	—	—	●	●	—	—	—	—
	Engineering symbol calculations	—	●	—	—	—	—	—	—	—	—	—	—
	Engineering notation (ENG/ENG)	●	●	●	●	●	●	●	●	●	●	●	●
	Scientific constants	—	—	—	—	—	—	40	40	—	—	—	—
	Metric conversions	—	—	—	—	—	—	40	40	—	—	—	—
CAS	Computer Algebra System	—	—	—	—	—	—	—	—	—	—	—	—
Basic Functions	Trigonometric, inverse trigonometric (sin/cos/tan/$\sin^{-1}$/$\cos^{-1}$/$\tan^{-1}$)	●	●	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/$\sinh^{-1}$/$\cosh^{-1}$/$\tanh^{-1}$)	●	●	●	●	●	●	●	●	●	●	●	●
	Exponential, logarithmic (log, ln, 10^x, e^x)	●	●	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	—	—	●	●	●	●	●	●	●	●	●	●
	Power and radical root (x^y/$\sqrt[x]{\ }$)	●	●	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	●	●	●	●	●	●	●	●	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	—	—	—	—	—	—	—	—	—	—
	Integer division	—	—	—	—	—	—	—	—	—	—	—	—
	Sexagesimal ↔ decimal	●	●	●	●	●	●	●	●	●	●	●	●
	Display format (FIX, SCI)	●	●	●	●	●	●	●	●	●	●	●	●
	Angle unit (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●	●	●
	Angle unit conversion (Deg, Rad, Grad)	●	—	●	●	●	●	●	●	●	●	●	●
	Factorization into prime factors	—	—	●	●	●	●	—	—	—	—	—	—
	Ratio calculation	—	—	—	—	—	●	—	—	—	—	—	—
Calculus	Differentiation calculation	●	—	—	—	—	—	●	●	—	—	—	—
	Integration calculation	●	●	—	—	—	—	●	●	—	—	—	—
Algebra	Simultaneous equation	—	—	—	—	—	● (3 unknowns)	● (3 unknowns)	● (3 unknowns)	—	—	—	● (3 unknowns)
	Polynomial equation	—	—	—	—	—	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	—	—	—	● (Degree 2, 3)
	Inequality calculation	—	—	—	—	—	●	—	—	—	—	—	—
	Table function	—	—	●	●	●	●	●	●	●	●	●	●
	Matrix calculations	—	—	—	—	—	—	●	●	—	—	—	—
	Complex number calculation	●	—	—	—	—	—	●	●	—	—	—	—
Geometry	Coordinate conversion (Pol, Rec)	●	●	●	●	●	●	●	●	●	●	●	●
	Vector calculations	—	—	—	—	—	—	●	●	—	—	—	—
Probability	Combination, permutation (*nCr*, *nPr*)	●	●	●	●	●	●	●	●	●	●	●	●
Statistics	Random numbers	●	●	●	●	●	●	●	●	●	●	●	●
	Random integers	—	—	●	●	●	●	●	●	—	—	—	—
	List-based STAT data editor	●	—	●	●	●	●	●	●	●	●	●	●
	Standard deviation	●	●	●	●	●	●	●	●	●	●	●	●
	Regression analysis	●	●	●	●	●	●	●	●	●	●	●	●
	Linear regression	●	●	●	●	●	●	●	●	●	●	●	●
	ab Exponential regression	—	—	●	●	●	●	●	●	●	●	●	●
	Advanced statistics	—	—	—	—	—	—	—	—	—	—	—	—
	Other regressions	Log, Exp, Pwr, Inv, Quad	—	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad
Finance	Financial function	—	—	—	—	—	—	—	—	—	—	—	—
Spreadsheet	Spreadsheet	—	—	—	—	—	—	—	—	—	—	—	—
Others	eActivity	—	—	—	—	—	—	—	—	—	—	—	—
	Data communication	—	—	—	—	—	—	—	—	—	—	—	—
	Others	—	—	—	—	—	—	—	—	—	—	—	—

*1 Continuous operation (assuming 5 minutes calculation and 55 minutes display per hour) *2 Continuous display of main menu *3 1 hour use per day *4 Continuous display of flashing cursor *5 When left with power turned off *6 Changes when OS is updated

Scientific Calculators Specification Table

		Standard Models											
		fx-991ES	fx-570ES	fx-82MS	fx-85MS	fx-350MS	fx-95MS	fx-100MS	fx-115MS	fx-991MS	fx-570MS	fx-992S	fx-901
Specifications	Number of functions	403	403	240	240	240	244	300	300	401	401	383	150
	Power supply (Main)	Two-way power (Solar + LR44 × 1)	AAA × 1 (R03)	AA × 1	Two-way power (Solar + LR44 × 1)	LR44 × 1	AA × 1	AA × 1	Two-way power (Solar + LR44 × 1)	Two-way power (Solar + LR44 × 1)	LR44 × 1	Two-way power (Solar + LR44 × 1)	Two-way power (Solar + LR44 × 1)
	Power supply (Backup)	—	—	—	—	—	—	—	—	—	—	—	—
	Approximate battery life Main (hours)	3 years (LR44)*3	17,000*4	17,000*4/ 2 years*5	3 years (LR44)*3	9,000*4/ 3years*5	17,000*4/ 2 years*5	17,000*4/ 2 years*5	3 years (LR44)*3	3 years (LR44)*3	9,000*4/ 3 years*5	3 years (LR44)*3	3 years (LR44)*3
	Approximate battery life Backup (years)	—	—	—	—	—	—	—	—	—	—	—	—
	Dimensions H×W×D(mm)	12.2 × 80 × 161	13.7 × 80 × 161	18.6 × 85 × 156	12.2 × 85 × 155	12.2 × 85 × 155	19.5 × 78 × 155	20 × 78 × 155	12.7 × 78 × 154.5	12.7 × 78 × 154.5	12.7 × 78 × 154.5	8.8 × 73 × 144	13.5 × 73 × 144.5
	Approximate weight (g)	105	110	125	100	100	130	133	105	105	105	74.3	67
	Case style	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard	Slide-on hard
	Dot matrix display	31 × 96 dots	31 × 96 dots	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 6 dots × 12 digits	5 × 5 dots × 4 digits	—
	Display capacity (characters)	15	15	12	12	12	12	12	12	12	12	—	—
	Mantissa + exponent digits	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	12 + 2	10 + 2
	Icon menus	—	—	—	—	—	—	—	—	—	—	—	—
	Internal operation digits	15	15	12	12	12	12	12	12	12	12	14	12
	Nested parentheses levels	24	24	24	24	24	24	24	24	24	24	18	18
Programming Functions	Program logic	—	—	—	—	—	—	—	—	—	—	—	—
	Memory (bytes)	—	—	—	—	—	—	—	—	—	—	—	—
	Program areas	—	—	—	—	—	—	—	—	—	—	—	—
	Storage memory area (Flash memory)	—	—	—	—	—	—	—	—	—	—	—	—
	Built-in formulas	—	—	—	—	—	—	—	—	—	—	—	—
Utilities	Natural textbook display / NATURAL-V.P.A.M.	●	●	—	—	—	—	—	—	—	—	—	—
	Key rollover function	●	●	●	●	●	●	●	●	●	●	●	●
	Replay function	●	●	●	●	●	●	●	●	●	●	—	—
	Multi-replay functions	●	●	●	●	●	●	●	●	●	●	—	—
	Replay copy	—	—	—	—	—	—	●	●	●	●	—	—
	Backspace	●	●	●	●	●	●	●	●	●	●	●	●
	CALC function	●	●	—	—	—	—	●	●	●	●	—	—
	SOLVE function	●	●	—	—	—	—	●	●	●	●	—	—
	Answer function	●	●	●	●	●	●	●	●	●	●	●	—
	Variables	7	7	9	9	9	9	9	9	9	9	7	3
	Onboard function manual	—	—	—	—	—	—	—	—	—	—	—	—
	Syntax help	—	—	—	—	—	—	—	—	—	—	—	—
	Auto power off	●	●	●	●	●	●	●	●	●	●	●	●
Special Features	Base-*n* calculations (Binary/Octal/Hexadecimal)	●	●	—	—	—	—	●	●	●	●	●	—
	Logical operations	●	●	—	—	—	—	●	●	●	●	●	—
	Engineering symbol calculations	—	—	—	—	—	—	●	●	●	●	●	—
	Engineering notation (ENG/ENG)	●	●	●	●	●	●	●	●	●	●	●	●
	Scientific constants	40	40	—	—	—	—	—	—	40	40	128	—
	Metric conversions	40	40	—	—	—	—	—	—	40	40	—	—
CAS	Computer Algebra System	—	—	—	—	—	—	—	—	—	—	—	—
Basic Functions	Trigonometric, inverse trigonometric (sin/cos/tan/$\sin^{-1}$/$\cos^{-1}$/$\tan^{-1}$)	●	●	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/$\sinh^{-1}$/$\cosh^{-1}$/$\tanh^{-1}$)	●	●	●	●	●	●	●	●	●	●	●	●
	Exponential, logarithmic (log, ln, 10^x, e^x)	●	●	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	●	●	—	—	—	—	—	—	—	—	—	—
	Power and radical root (x^y/$\sqrt[x]{\ }$)	●	●	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	●	●	●	●	●	●	●	●	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	—	—	—	—	—	—	—	—	—	—
	Integer division	—	—	—	—	—	—	—	—	—	—	—	—
	Sexagesimal ↔ decimal	●	●	●	●	●	●	●	●	●	●	●	●
	Display format (FIX, SCI)	●	●	●	●	●	●	●	●	●	●	●	●
	Angle unit (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●	●	●
	Angle unit conversion (Deg, Rad, Grad)	●	●	●	●	●	●	●	●	●	●	—	●
	Factorization into prime factors	—	—	—	—	—	—	—	—	—	—	—	—
	Ratio calculation	—	—	—	—	—	—	—	—	—	—	—	—
Calculus	Differentiation calculation	●	●	—	—	—	—	●	●	●	●	—	—
	Integration calculation	●	●	—	—	—	—	●	●	●	●	—	—
Algebra	Simultaneous equation	● (3 unknowns)	● (3 unknowns)	—	—	—	● (3 unknowns)	● (3 unknowns)	● (3 unknowns)	● (3 unknowns)	● (3 unknowns)	—	—
	Polynomial equation	● (Degree 2, 3)	● (Degree 2, 3)	—	—	—	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	● (Degree 2, 3)	—	—
	Inequality calculation	—	—	—	—	—	—	—	—	—	—	—	—
	Table function	●	●	—	—	—	—	—	—	—	—	—	—
	Matrix calculations	●	●	—	—	—	—	—	—	●	●	—	—
	Complex number calculation	●	●	—	—	—	—	●	●	●	●	●	—
Geometry	Coordinate conversion (Pol, Rec)	●	●	●	●	●	●	●	●	●	●	●	●
	Vector calculations	●	●	—	—	—	—	—	—	●	●	—	—
Probability	Combination, permutation (*nCr*, *nPr*)	●	●	●	●	●	●	●	●	●	●	●	●
Statistics	Random numbers	●	●	●	●	●	●	●	●	●	●	●	●
	Random integers	—	—	—	—	—	—	—	—	—	—	—	—
	List-based STAT data editor	●	●	●	●	●	●	●	●	●	●	—	—
	Standard deviation	●	●	●	●	●	●	●	●	●	●	●	●
	Regression analysis	●	●	●	●	●	●	●	●	●	●	●	—
	Linear regression	●	●	●	●	●	●	●	●	●	●	●	—
	ab Exponential regression	●	●	—	—	—	—	—	—	—	—	—	—
	Advanced statistics	—	—	—	—	—	—	—	—	—	—	—	—
	Other regressions	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	—	—
Finance	Financial function	—	—	—	—	—	—	—	—	—	—	—	—
Spreadsheet	Spreadsheet	—	—	—	—	—	—	—	—	—	—	—	—
Others	eActivity	—	—	—	—	—	—	S-V.P.A.M., Formula memory (79 bytes), Normal distribution	S-V.P.A.M., Formula memory (79 bytes), Normal distribution	S-V.P.A.M., Formula memory (79 bytes), Normal distribution	S-V.P.A.M., Formula memory (79 bytes), Normal distribution	V.P.A.M.	—
	Data communication	—	—	S-V.P.A.M.	S-V.P.A.M.	S-V.P.A.M.	S-V.P.A.M.						
	Others	—	—										

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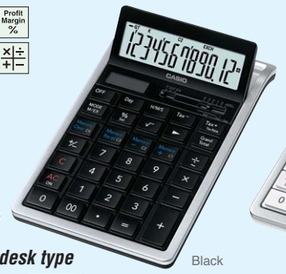

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BORDEAUX RED

PREMIUM BLACK

Portable type
SL-1100TV 10 DIGITS

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Radish Red

Carrot Orange

Peppermint Blue

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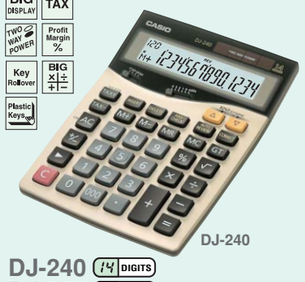
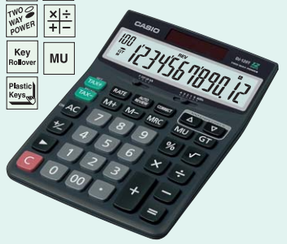


DJ-240

DJ-240 14 DIGITS
DJ-220 12 DIGITS

100 STEPS CHECK · TAX · EXTRA BIG DISPLAY · % · TWO WAY POWER · ×÷ +− · Key Rollover · MU · Plastic Keys



DJ-120T 12 DIGITS

100 STEPS CHECK · TAX · EXTRA BIG DISPLAY · % · TWO WAY POWER · ×÷ +− · Key Rollover · MU · Plastic Keys

DJ-20T 12 DIGITS

100 STEPS CHECK · TAX · EXTRA BIG DISPLAY · % · TWO WAY POWER · ×÷ +− · Key Rollover · MU · Plastic Keys

MJ-120T

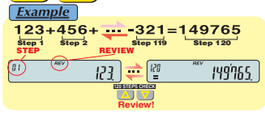
MJ-120T 12 DIGITS
MJ-100T 10 DIGITS

120 Steps CHECK

※100 STEPS DJ-20T/DJ-120T/MJ-100T/MJ-120T

Review and Auto Review
120 STEPS CHECK · Review up to 120 calculation steps.

Example



AUTO REVIEW · Auto Review at the touch of a key!

Correct (all models)
CORRECT · Quick and easy editing of steps!

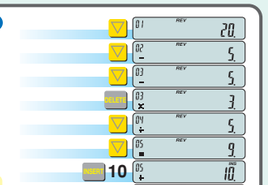
Double Check (DJ-220 / DJ-240 only)
ANS CHECK · Compare the results of two calculations!

Answer Memory (DJ-220 / DJ-240 only)
ANS CHECK · Recall a previous calculation result and use it in the next calculation!

Insert / Delete (DJ-220 / DJ-240 only)
INSERT · DELETE · To add steps to or delete steps from a calculation

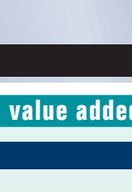
You can add steps to or delete steps from Calculation Memory.
Also, remember that if the number of steps in Calculation Memory exceeds 120, you will not be able to review them later.

Example
Current calculation: (20−5−5) × 3 ÷ 5 = 6
Revised calculation: [(20−5) × 3 ÷ 5 = 9] + 10 = 19



Metric Converter

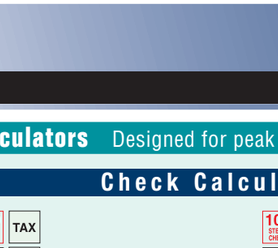
BIG DISPLAY · Profit Margin % · TWO WAY POWER · ×÷ +− · Conversion



MC-100 8 DIGITS

Water-protected and Dust-proof Calculator

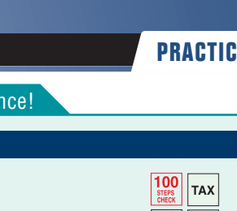
Desk-Top type



WD-220T 12 DIGITS

Durability and endurance for professional and general users
- Complies with IEC 60529 IP 54 (water protect and dust proof)

BIG DISPLAY · TWO WAY POWER · Key Rollover · Plastic Keys · TAX · 12-34 Time Calcu. · Profit Margin % · ×÷ +−



WM-220T

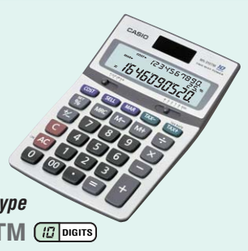
Mini desk type
WM-220T 12 DIGITS
WM-200T 10 DIGITS

3-Line Display Calculator

BIG DISPLAY · COST SELL MAR · ×÷ +− · TWO WAY POWER · Tax & Exch. · Key Rollover · 12-34 Time Calcu. · Plastic Keys · Profit Margin %

Desk-Top type
DF-320TM 12 DIGITS

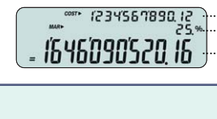
BIG DISPLAY · COST SELL MAR · TWO WAY POWER · TAX · Key Rollover · Profit Margin % · Plastic Keys · ×÷ +−



Mini desk type
MS-310TM 10 DIGITS

Cost, Selling Price and Margin Calculations

For Shopkeepers & Traders
Perform the operations shown below to calculate cost, selling price, and margin.



Model	Digits	Inde-pendent memory	Cost/ Sell/ Margin	GT	%	Profit margin %	MU	✓	+/−	▶	3-digit comma markers	Time calcu-lation	Tax calcu-lation	Exchange calcu-lation	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)	Case	Others
RT-7000	12	○	—	○	○	○	—	○	○	○	○	○	○	○	○	○	—	0,1,2,3,4	○	Two-way power	19.7×108.5×180	250	—	Day/Date Calculations
JW-200TV	12	○	—	○	○	○	—	○	○	○	○	—	○	○	○	○	—	0,1,2,3,4	○	Two-way power	26.1×107×178.5	170	—	—
SL-1100TV	10	○	—	—	○	○	—	○	○	○	○	○	○	—	—	—	—	—	—	Two-way power	85×70×118.5	60	Wallet	—
MS-10VC	10	○	—	—	○	○	—	○	○	○	○	○	○	—	—	—	—	—	—	Two-way power	26.2×105.5×144	100	—	—
SL-100VC	8	○	—	—	○	○	—	—	○	○	○	—	○	—	—	—	—	—	—	Two-way power	Ⓕ13.5×91×55 Ⓤ9.4×91×110.5	55	—	—
MS-5VC	8	○	—	—	○	○	—	—	○	—	○	—	○	—	—	—	—	—	—	Two-way power	25×86×118	60	—	—
DJ-240/220	14/12	○	—	○	○	○	—	○	○	○	○	—	○	—	○	○	○	0,1,2,3,4	○	Two-way power	35.7×147×203.5	250	—	120 STEPS CHECK
DJ-120T	12	○	—	○	○	—	○	○	○	○	○	—	○	—	○	○	○	0,1,2,3,4	○	Two-way power	35×140×191	205	—	100 STEPS CHECK
DJ-20T	12	○	—	○	○	—	○	○	○	○	○	—	○	—	○	○	○	0,1,2,3,4	○	Two-way power	35×123.5×165.5	150	—	100 STEPS CHECK
MJ-120T/100T	12/10	○	—	○	○	—	○	○	○	○	○	—	○	—	—	—	—	—	—	Two-way power	30.1×123×140	130	—	100 STEPS CHECK
MC-100	8	○	—	—	○	○	—	—	—	—	○	—	—	—	—	—	—	—	—	Two-way power	6.1×70×117	42	Wallet	Metric conversion
WD-220T	12	○	—	○	○	○	—	○	○	○	○	○	○	—	—	—	—	—	—	Two-way power	34×139×187.5	255	—	—
WM-220T/200T	12/10	○	—	—	○	○	—	○	○	○	○	○	○	—	—	—	—	—	—	Two-way power	34.6×104×153.5	135	—	—
DF-320TM	12	○	○	○	○	○	—	—	○	—	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	32.3×124×179.5	200	—	—
MS-310TM	10	○	○	—	○	○	—	—	○	—	○	—	○	—	○	○	○	0,1,2,3,4	○	Two-way power	30×103×156	120	—	—

Ⓕ Folded Ⓤ Unfolded

Durable and easy to use: HEAVY DUTY Calculators

Desk-Top Type

DS-3V 14 DIGITS

DS-2TV

DS-2TV 12 DIGITS
DS-1TV 10 DIGITS

Compact Desk Type

JS-140V 14 DIGITS

Adjustable Tilt Display

Freely adjustable display angle

JS-120TV

JS-120TV 12 DIGITS
JS-110TV 10 DIGITS

Adjustable Tilt Display

Freely adjustable display angle

JS-40V 14 DIGITS

HEAVY DUTY Calculator — What makes a CASIO "HEAVY DUTY Calculators"?

• Photos show JS-120TV calculator and display.

JS-20TV

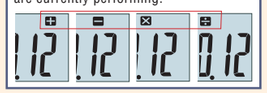
JS-20TV 12 DIGITS
JS-10TV 10 DIGITS

TWP (Two-Way Power)

Solar powered when light is sufficient, battery powered when light is insufficient.

Function Command Signs

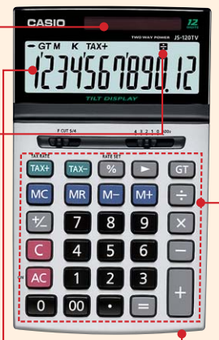
A symbol (+, −, ×, ÷) on the display indicates the status of operation you are currently performing.



Extra Big Display

Larger display makes more data easier to read.

Actual size



JS-120TV

Large Rubber Feet

Large rubber feet on the bottom of the calculator keep it from slipping during operation.

Heavy-duty Durable Keys

Keys are produced by injecting plastic of two different colours. Key markings are plastic, which means they do not wear or fade with use.

Key cross section

Key Layout and Key Cap Shape

Keys are ergonomically shaped and configured to match natural finger movements.

Silent Touch Keys

Keys are specially designed for silent operation when compared to previous CASIO calculators to help maintain a more pleasant working environment.

Key Rollover

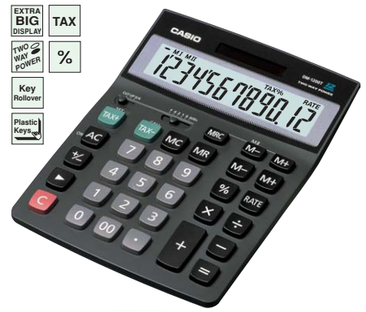
Key operations are stored in a buffer, so nothing is lost even during high-speed input.

Model	Digits	Independent memory	GT	%	Profit margin %	☑	+/−	▶	3-digit comma markers	Time calcu-lation	Tax calcu-lation	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)
DS-3V	14	○	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,3,4	○	Two-way power	47.8×148×186	290
DS-2TV	12	○	○	○	○	—	○	○	○	—	○	○	○	○	0,1,2,3,4	○	Two-way power	47.8×148×186	290
DS-1TV	10	○	○	○	○	—	○	○	○	—	○	○	○	○	0,1,2,3,4	○	Two-way power	47.8×148×186	290
JS-140V	14	○	○	○	○	○	○	○	○	○	—	○	○	—	0,1,2,3,4	○	Two-way power	24.6×107×176.5	180
JS-120TV	12	○	○	○	○	—	○	○	○	—	○	○	○	—	0,1,2,3,4	○	Two-way power	24.6×107×176.5	180
JS-110TV	10	○	○	○	○	—	○	○	○	—	○	○	○	—	0,1,2,3,4	○	Two-way power	24.6×107×176.5	180
JS-40V	14	○	○	○	○	○	○	○	○	○	—	○	○	—	0,1,2,3,4	○	Two-way power	24.2×107×174.5	195
JS-20TV	12	○	○	○	○	—	○	○	○	—	○	○	○	—	0,1,2,3,4	○	Two-way power	24.2×107×174.5	195
JS-10TV	10	○	○	○	○	—	○	○	○	—	○	○	○	—	0,1,2,3,4	○	Two-way power	24.2×107×174.5	195

Desk-Top Type

Adding Machine

DS-120TV 12 DIGITS



DM-1200T 12 DIGITS

DM-1600TV 16 DIGITS

DM-1400TV 14 DIGITS

DM-1200TM 12 DIGITS

D-60L

D-60L 16 DIGITS
D-40L 14 DIGITS
D-20L 12 DIGITS

D-120TV 12 DIGITS

DF-120TM 12 DIGITS

Adjustable Tilt Display

Freely adjustable display angle

DW-120TV 12 DIGITS

Easy calculation of cost, selling price and margin.

DM-1200TM / DF-120TM / JF-120TM / MS-120TM / MS-100TM

COST SELL MAR

Cost

What is the cost of an item that sells for $150 after a 30% margin is added?

1 AC 150 SELL → 150.
2 30 MAR → 30.
3 MAR → 45.
4 COST → 105.

Selling Price

What would the selling price be for an item that costs $120 after a 40% margin is added?

1 AC 120 COST → 120.
2 40 MAR → 40.
3 MAR → 80.
4 SELL → 200.

Margin

What is the margin on an item that costs $1,000 and sells for $2,000?

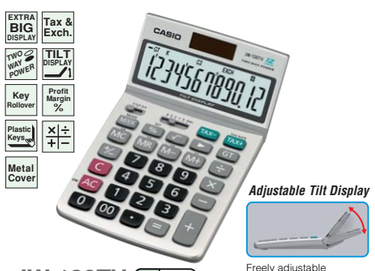
1 AC 1 00 0 COST → 1'000.
2 2 00 0 SELL → 2'000.
3 MAR → 50.

Model	Digits	Adding machine	Independent memory	Cost/ Sell/ Margin	GT	%	Profit margin %	MU	MD	☑	+/−	▶	3-digit comma markers	Time calcu-lation	Tax calcu-lation	Exchange calcu-lation	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)
DS-120TV	12	○	○	—	○	○	—	○	○	○	○	○	○	—	○	—	○	○	○	0,1,2,3,4	○	Two-way power	40.9×184×186	300
DM-1200T	12	—	2	—	—	○	—	—	—	—	○	○	○	—	○	—	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
DM-1600TV	16	—	2	—	—	○	—	—	—	—	○	○	○	—	○	—	○	○	○	0,1,2,4	○	Two-way power	35.5×155×210	270
DM-1400TV	14	—	2	—	—	○	—	—	—	—	○	○	○	—	○	—	○	○	○	0,1,2,4	○	Two-way power	35.5×155×210	270
DM-1200TM	12	—	○	○	○	○	○	—	—	—	○	○	○	—	○	—	○	○	—	0,1,2,3,4	○	Two-way power	35.5×155×210	265
D-60L	16	—	○	—	—	○	—	○	—	○	○	○	○	—	—	—	○	○	○	0,1,2,4	○	Two-way power	32×151×158	195
D-40L	14	—	○	—	○	○	—	○	—	○	○	○	○	—	—	—	○	○	○	0,1,2,4	○	Two-way power	32×151×158	195
D-20L	12	—	○	—	○	○	—	○	—	○	○	○	○	—	—	—	○	○	○	0,1,2,4	○	Two-way power	32×151×158	195
D-120TV	12	—	○	—	○	○	○	—	—	○	○	○	○	○	○	—	○	○	—	0,1,2,3,4	○	Two-way power	35×126×175	170
DF-120TM	12	—	○	○	○	○	○	—	—	○	○	○	○	—	○	—	○	○	—	0,1,2,3,4	○	Two-way power	35.7×122.5×174.5	180
DW-120TV	12	—	○	—	○	○	○	—	—	○	○	○	○	—	○	○	○	○	—	0,1,2,3,4	○	Two-way power	32.7×122.5×177.5	195

Compact Desk Type

J-120TV 12 DIGITS

JF-120TM 12 DIGITS



JW-120TV 12 DIGITS

Mini Desk Type

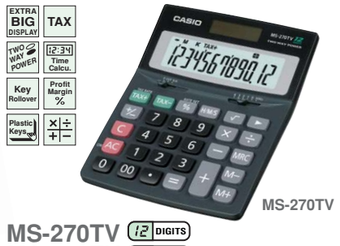
MS-470V 14 DIGITS

MS-120TM 12 DIGITS
MS-100TM 10 DIGITS

MS-80TV 8 DIGITS

MS-20TV 12 DIGITS
MS-10TV 10 DIGITS

MS-8TV 8 DIGITS

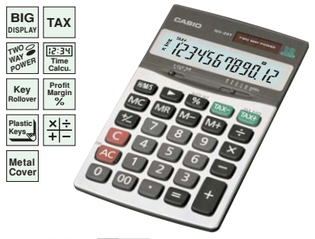


MS-270TV 12 DIGITS
MS-170TV 10 DIGITS

MS-7TV 8 DIGITS

BK (Black)
WE (White)
MW-8V 8 DIGITS

BK (Black)
WE (White)
MW-5V 8 DIGITS



NS-20T 12 DIGITS

Model	Digits	Independent memory	Cost/ Sell/ Margin	GT	%	Profit margin %	√	+/−	▶	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	5/4	Cut	Decimal selector	ADD mode	Power supply	Approximate battery life (years)	Dimensions H×W×D (mm)	Approximate weight (g)
J-120TV	12	○	—	○	○	○	—	○	○	○	○	○	—	○	○	0,1,2,3,4	○	Two-way power	—	25×107×176	145
JF-120TM	12	○	○	○	○	○	—	○	○	○	—	○	—	○	○	0,1,2,3,4	○	Two-way power	—	26.3×107×173	155
JW-120TV	12	○	—	○	○	○	○	○	○	○	—	○	○	○	○	0,1,2,3,4	○	Two-way power	—	26.1×107×178.5	170
MS-470V	14	○	—	○	○	○	○	○	○	○	○	—	—	○	○	0,1,2,3,4	○	Two-way power	—	30.4×111×142.5	125
MS-120TM/100TM	12/10	○	○	—	○	○	—	○	—	○	—	○	—	—	—	—	—	Two-way power	—	30.7×103×145	120
MS-80TV	8	○	—	—	○	○	—	○	—	○	—	○	○	—	—	—	—	Two-way power	—	30.7×103×145	120
MS-20TV/10TV	12/10	○	—	—	○	○	—	○	—	○	○	○	—	—	—	—	—	Two-way power	—	31.7×103×145	100
MS-8TV	8	○	—	—	○	○	—	○	—	○	—	○	—	—	—	—	—	Two-way power	—	31.7×103×145	100
MS-270TV/170TV	12/10	○	—	—	○	○	○	○	○	○	○	○	—	○	○	0,1,2,3,4	○	Two-way power	—	30.4×111×142.5	125
MS-7TV	8	○	—	—	○	○	○	○	○	○	○	○	—	—	—	—	—	Two-way power	—	30.4×111×142.5	120
MW-8V	8	○	—	—	○	—	○	○	—	○	—	—	—	—	—	—	—	AA (LR6 or R6P)×1	2	28.8×103×145	120
MW-5V	8	○	—	—	○	—	○	○	—	○	—	—	—	—	—	—	—	AA (LR6 or R6P)×1	2	25.1×84×118	85
NS-20T	12	○	—	—	○	○	—	○	○	○	○	○	—	○	○	0,1,2,3,4	○	Two-way power	—	10.7×87×145	90

R6P=UM-3

Portable Type

LC-1000TV 10 DIGITS

LC-401LV 8 DIGITS

LC-403TV 8 DIGITS

LC-160LV 8 DIGITS

SL-340VA 14 DIGITS

SL-320TV 12 DIGITS
SL-315TV 10 DIGITS

SL-300TV 8 DIGITS

SL-300LV 8 DIGITS

DUAL LEAF
SL-240LB 14 DIGITS

SL-220TE

DUAL LEAF
SL-220TE 12 DIGITS
SL-210TE 10 DIGITS
SL-200TE 8 DIGITS

DUAL LEAF
SL-100L 8 DIGITS

Model	Digits	Independent memory	GT	%	Profit margin %	√	+/−	▶	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	5/4	Cut	Decimal selector	Power supply	Approximate battery life (hours)	Dimensions H×W×D (mm)	Approximate weight (g)	Case
LC-1000TV	10	○	—	○	○	—	○	—	○	—	○	—	—	—	—	LR54×1	5,500	7.5×70×118.5	50	Wallet
LC-401LV	8	○	—	○	—	○	○	—	○	—	—	—	—	—	—	LR54×1	4,500	Ⓕ 10.7×75×120 Ⓤ 7.3×151.5×120	70	Hard
LC-403TV	8	○	—	○	○	—	○	—	—	—	○	—	—	—	—	LR54×1	7,500	7.5×70×118.5	50	Wallet
LC-160LV	8	○	—	○	—	○	—	—	○	—	—	—	—	—	—	LR54×1	6,500	Ⓕ 10×87×58 Ⓤ 8×87×117.5	35	Hard
SL-340VA	14	○	—	○	○	—	○	○	○	—	—	—	—	—	—	Two-way power	—	7.5×70×118.5	50	Wallet
SL-320TV	12	○	—	○	○	—	○	—	○	○	○	—	—	—	—	Two-way power	—	7.5×70×118.5	50	Wallet
SL-315TV	10	○	—	○	○	—	○	—	○	○	○	—	—	—	—	Two-way power	—	7.5×70×118.5	50	Wallet
SL-300TV	8	○	—	○	○	—	○	—	—	—	○	—	—	—	—	Two-way power	—	7.5×70×118.5	50	Wallet
SL-300LV	8	○	—	○	—	○	○	—	○	—	—	—	—	—	—	Two-way power	—	7.5×70×118.5	50	Wallet
SL-240LB	14	○	○	○	○	○	○	○	○	—	—	—	○	○	2	Two-way power	—	Ⓕ 12.5×120×73 Ⓤ 6.5×120×141	76	—
SL-220TE	12	○	—	○	○	—	○	—	○	—	○	—	○	○	2	Two-way power	—	Ⓕ 12.5×120×73 Ⓤ 6.5×120×141	76	—
SL-210TE	10	○	—	○	○	—	○	—	○	—	○	○	○	○	2	Two-way power	—	Ⓕ 12.5×120×73 Ⓤ 6.5×120×141	75.5	—
SL-200TE	8	○	—	○	○	—	○	—	○	—	○	○	—	—	—	Two-way power	—	Ⓕ 12.5×120×73 Ⓤ 6.5×120×141	76	—
SL-100L	8	○	—	○	—	○	○	—	○	—	—	—	—	—	—	Two-way power	—	Ⓕ 13.5×91×55 Ⓤ 9.4×91×110.5	55	—

LR54=LR1130

Ⓕ Folded Ⓤ Unfolded

Portable Type

GD (Gold)

BK (Black)

SL-797TV 8 DIGITS

GD (Gold)

BK (Black)

SL-787TV 8 DIGITS

GDB (Gold)

BK (Black)

SL-760LB 8 DIGITS

HL-122TV 12 DIGITS

HL-100LB 10 DIGITS

HL-820VA 8 DIGITS

BK (Black)

WE (White)

HL-820LV 8 DIGITS

BK (Black)

WE (White)

HL-815L 8 DIGITS

HL-4A 8 DIGITS

HS-8VA 8 DIGITS

BK (Black)

WE (White)

HS-8LV 8 DIGITS

Model	Digits	Independent memory	GT	%	Profit margin %	MU	√	+/−	▶	3-digit comma markers	Tax calculation	Exchange calculation	5/4	Cut	Decimal selector	Power supply	Approximate battery life (hours)	Dimensions H×W×D (mm)	Approximate weight (g)	Case
SL-797TV	8	○	—	○	○	—	—	—	—	○	○	○	—	—	—	Two-way power	—	6.9×57×102	35	Wallet
SL-787TV	8	○	—	○	○	—	—	—	—	○	○	○	—	—	—	Two-way power	—	6.3×91.5×58	30	Wallet
SL-760LB	8	○	—	○	○	—	○	—	—	○	—	—	—	—	—	Solar	—	2.9×85.5×54	15	Soft
HL-122TV	12	○	○	○	○	—	○	○	○	○	○	—	○	○	2	AA (LR6 or R6P)×1	17,500	19.5×77×141	115	Soft
HL-100LB	10	○	—	○	—	—	○	—	—	○	—	—	—	—	—	AA (LR6 or R6P)×1	2 yrs.	18×69.5×118	65	—
HL-820VA	8	○	—	○	—	—	○	—	—	○	—	—	—	—	—	LR54×1	2 yrs.	6.9×57×102	35	Wallet
HL-820LV	8	○	—	○	—	—	○	—	—	○	—	—	—	—	—	LR54×1	6,500	Ⓕ 10×62.5×104 Ⓤ 7.5×127×104	45	Hard
HL-815L	8	○	—	○	—	—	○	—	—	○	—	—	—	—	—	AA (LR6 or R6P)×1	2 yrs.	18×69.5×118	65	—
HL-4A	8	○	—	○	—	—	○	○	—	—	—	—	—	—	—	LR54×1	6,500	8.8×56×87	25	—
HS-8VA	8	○	—	○	—	○	○	○	—	—	—	—	—	—	—	Two-way power	—	6.9×57×102	35	Wallet
HS-8LV	8	○	—	○	—	—	○	○	—	○	—	—	—	—	—	Two-way power	—	6.7×57×102	35	Wallet

LR54=LR1130
LR6=AM3, R6P=UM-3

Ⓕ Folded Ⓤ Unfolded

Value Series

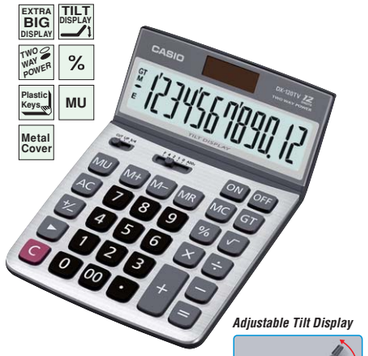
Desk-Top Type

GX-16V 16 DIGITS

GX-14V 14 DIGITS

GX-120V 12 DIGITS

GX-12V 12 DIGITS



DX-120TV 12 DIGITS

Adjustable Tilt Display

Freely adjustable display angle

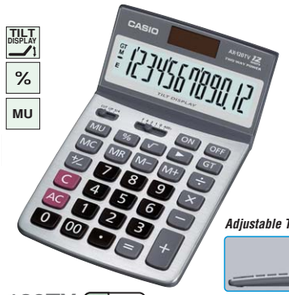
DX-120V 12 DIGITS

DX-12V 12 DIGITS

Model	Digits	Independent memory	GT	%	MU	√	+/−	▶	3-digit comma markers	Item counter	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)
GX-16V	16	2	—	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
GX-14V	14	2	—	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
GX-120V	12	2	—	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	35.5×155×210	260
GX-12V	12	2	—	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
DX-120TV	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	32.7×122.5×177.5	195
DX-120V	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	36×126×175	190
DX-12V	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	35×126×175	170

Value Series

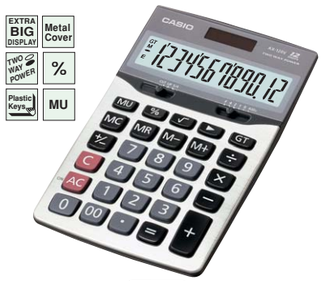
Compact Desk Type



AX-120TV 12 DIGITS

Adjustable Tilt Display

Freely adjustable display angle



AX-120V 12 DIGITS

AX-12V 12 DIGITS

Mini Desk Type

MX-120V 12 DIGITS

MX-12V 12 DIGITS

MX-8V 8 DIGITS

Portable Type

SX-320P 12 DIGITS

SX-300P 8 DIGITS

SX-300 8 DIGITS

DUAL LEAF
SX-220 12 DIGITS

DUAL LEAF
SX-100 8 DIGITS

Model	Digits	Independent memory	GT	%	MU	✓	+/−	▶	3-digit comma markers	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)	Case
AX-120TV	12	○	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	26.1×107×178.5	170	—
AX-120V	12	○	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	29.3×107×175.5	165	—
AX-12V	12	○	○	○	○	○	○	○	○	○	○	○	0,1,2,4	○	Two-way power	25×107×176	145	—
MX-120V	12	○	—	○	○	—	○	○	○	—	—	—	—	—	Two-way power	30.7×103×145	120	—
MX-12V	12	○	—	○	○	—	○	○	○	—	—	—	—	—	Two-way power	31.7×103×145	100	—
MX-8V	8	○	—	○	○	○	○	—	○	—	—	—	—	—	Two-way power	31.7×103×145	100	—
SX-320P	12	○	—	○	—	○	○	○	○	—	—	—	—	—	Two-way power	7.5×70×118.5	50	Wallet
SX-300P	8	○	—	○	—	○	○	—	○	—	—	—	—	—	Two-way power	7.5×70×118.5	50	Wallet
SX-300	8	○	—	○	—	○	○	—	○	—	—	—	—	—	Two-way power	7.5×70×118.5	50	Wallet
SX-220	12	○	○	○	—	○	○	○	○	—	—	—	—	—	Two-way power	Ⓕ12.5×120×73 Ⓤ6.5×120×141	80	—
SX-100	8	○	—	○	—	○	○	—	○	—	—	—	—	—	Two-way power	Ⓕ13.5×91×55 Ⓤ9.4×91×110.5	55	—

Ⓕ Folded Ⓤ Unfolded

PRINTING CALCULATORS

Printouts of results along with each calculation step can be attached to documents

Mini-printer

BK (Cool Black)

HR-8TM 12 DIGITS

GY (Light Gray)

Compact Type

HR-100TM 12 DIGITS

HR-150TM 12 DIGITS

Desk-Top Type

FR-2650T 12 DIGITS

BK (Black)

WE (White)

DR-120TM 12 DIGITS

DR-140TM 14 DIGITS

Heavy-duty Type

DR-210TM 12 DIGITS

DR-240TM 14 DIGITS

TIME

Prints the current time and date

DR-270TM 12 DIGITS

Main Functions

Cost, Selling Price and Margin Calculations

(HR-8TM/HR-100TM/HR-150TM/DR-120TM/ DR-140TM/DR-210TM/DR-240TM/DR-270TM)

Perform the operations shown to the right to calculate cost, selling price, and margin.

Exchange Functions

(HR-8TM/HR-100TM/HR-150TM)

Current rates for converting between U.S. dollars and up to three national currencies at the touch of a key. A simple operation also converts between national currencies, with intermediate conversion to U.S. dollars.

Tax Calculations (All models)

Set the rate you want for easy calculation of amount plus tax, amount less tax, and tax amount.

Printing Sample

Cost

What is the cost of an item that sells for $150 after a 30% margin is added?

❶ CA 150 SELL → 150.
❷ 30 MAR → 105.
❸ MAR → 45.
COST → 105.

··0··CA
150·S✻ ← ❶Selling price
30·M% ← ❷Margin (%)
105·C◇ ← Cost
30·M% ← ❸Margin (%)
45·MT ← Margin amount

Selling Price

What would the selling price be for an item that costs $120 after a 40% margin is added?

❶ CA 120 COST → 120.
❷ 40 MAR → 200.
❸ MAR → 80.
SELL → 200.

··0··CA
120·C◇ ← ❶Cost
40·M% ← ❷Margin (%)
200·S✻ ← Selling price
40·M% ← ❸Margin (%)
80·MT ← Margin amount

Margin

What is the margin on an item that costs $1,000 and sells for $2,000?

❶ CA 1000 COST → 1'000.
❷ 2000 SELL → 50.

··0··CA
1,000·C◇ ← ❶Cost
2,000·S✻ ← ❷Selling price
50·M% ← Margin (%)

*Print sample: DR-120TM

Thermal Printer

Quick (approximately 8 lines/sec.) and quiet

DR-T120 12 DIGITS

DR-T140 14 DIGITS

DR-T220 12 DIGITS

Model	Display	Digits	Simple algebraic logic	Adding machine	Sub-total/ Total	GT	Inde-pendent memory	Cost/ Sell/ Margin	%	Profit margin %	MU/ MD	+/-	▶	3-digit comma markers	2-colour printing	Tax calcu-lation	Exchange calcu-lation	Item counter	5/4	Cut	Up	Decimal selector	ADD mode	Power supply: Battery	Power supply: AC adaptor	Ink-roll/ Ink ribbon	Paper width (mm)	Print speed (lines/s)	Dimensions H×W×D (mm)	Approximate weight	Others
HR-8TM	LCD	12	○	—	—	—	○	○	○	○	—	—	—	○	—	○	○	—	○	—	—	0,2	—	AA×4	AD-A60024	IR-40	58	1.6*1	41.1×99×196	340g	Function command signs, Auto power off function
HR-100TM	LCD	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	—	—	0,2,3	○	AA×4	AD-A60024	IR-40T	58	2.0*1	67×165.5×285	520g	Average calculation
HR-150TM	LCD	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	—	—	0,2,3	○	AA×4	AD-A60024	IR-40T	58	2.4*1	67.4×196×317	700g	Average calculation
FR-2650T	Digitron	12	—	○	○	○	○	—	○	—	○	—	—	○	○	○	—	○	○	○	—	0,2,3,4	○	—	AC only	IR-40T	58	2.4*1	70×206×335	1.1kg	—
DR-120TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	0–6	○	—	AC only	RB-02	58	3.5*2	109.3×214.5×382	1.7kg	Average calculation
DR-140TM	Digitron	14	—	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	0–6	○	—	AC only	RB-02	58	3.5*2	109.3×214.5×382	1.7kg	Average calculation, 000
DR-210TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	0–6	○	—	AC only	RB-02	58	4.4*2	109.3×214.5×382	1.7kg	Data print function
DR-240TM	Digitron	14	—	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	0–6	○	—	AC only	RB-02	58	4.4*2	109.3×214.5×382	1.7kg	Data print function, 000
DR-270TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	0–6	○	—	AC only	RB-02	58	4.8*2	109.3×214.5×382	1.9kg	Clock & Calendar

*1 Average speeds of 3-position shift max. & min. speed patterns. *2 Average speed at feed.

Model	Digits	Independent memory	Date/ time display	%	MU/ MD	Constant calculation	Total and grand total	Repeat addition, subtraction, ADD mode	Item counter	00 key / 000 key	3-digit separator display	3-digit separator printing	Auto power off	Cut off / Round off	Paper width (mm)	Print speed (lines/s)	Per character print size (mm)	Variable print font	Memory print	Calculation check	Power Supply	Dimensions H × W × D (mm) Weight (kg) (excluding battery)
DR-T120	12	○	○	○	○	○	○	○	○	00	○	○	No (30-minute auto return to timekeeping)	○	58	8.0*3	Font - B	—	—	—	AC only (built-in backup battery)	91×340×213, 1.7
DR-T140	14	○	○	○	○	○	○	○	○	000	○	○		○	58	8.0*3	Font - B	—	—	—		91×340×213, 1.7
DR-T220	12	○	○	○	○	○	○	○	○	00	○	○		○	58	8.0*3	Font - B, A(2,832), C(3,499)	○	○	○		91×340×213, 1.7

*3 Average speed of half line among the printout digits.

Label Printer Specifications

Model	KL-820	KL-120	KL-60/KL-60SR	KL-170 PLUS
Keyboard layout	QWERTY	QWERTY	QWERTY	QWERTY
Display: LCD	95 x 32 dots	96 x 16 dots	5 x 7 dots + cursor	64×16 dots
Display: Display (input data)	16 digits x 3 lines	16 digits x 2 lines	4 digits x 1 line	4 digits x 1 line
Usable tape widths (mm)	24 / 18 / 12 / 9 / 6	18 / 12 / 9 / 6	12 / 9 / 6	18 / 12 / 9 / 6
Printing resolution	200 dpi / 96 dots	200 dpi / 96 dots	160 dpi / 32 dots	200dpi / 64 dots
Unit of length switching	cm / inches	cm / inches	—	—
Printing speed (mm/sec.)	6	6	11.6	6
Maximum printing height (mm)	12	12	5	8
Maximum printing lines	3	2	2	2
Fonts	Sans-serif / Sans-serif italic / Sans-serif rounded / Roman / Roman italic	Sans-serif	Sans-serif	圓體, 黑體, 明體, Logo style, Stencil
Character styles	Normal / Bold / Outline / Shadow / Raised	Normal / Bold / Outline	Normal	Normal / Outline
Character effects	Shading / Underline / Box	Shading / Underline / Box	Shading / Underline / Box	Box
Built-in character types	248	248	207	8,841
Alphanumeric characters	62	62	62	62
Special characters / symbols	87	87	46	405
Countries' characters	99	99	99	8,374
Frame printing	○	—	—	○
Layouts according to use	24	18	—	33
Mirror printing	○	○	○	○
Printing direction	Horizontal / Vertical	Horizontal	Horizontal	Horizontal / Vertical
Printing number setting	9	9	—	—
Design logos	60	—	—	—
Numbering	○	—	—	—
Barcode printing	○	—	—	—
Languages supported	14*1	14*1	14*1	2*2
Message switching	6 languages*3	5 languages*4	English only	Chinese only
Print job memories	100 characters / Layout / Numbering / Barcode x 10 each	80 characters x 2	63 characters x 1	63 characters x 1
Auto power off	○	○	○	○
Maximum characters per input data	100	80	63	63
Power supply	AC adaptor*5 (optional) or 6 x AA-size alkaline (LR6) batteries (sold separately)	6 x AA-size alkaline (LR6) batteries (sold separately)	6 x AA-size alkaline (LR6) batteries (sold separately)	6 x AA-size alkaline (LR6) batteries (sold separately)
Approximate battery life*6	4 tape cartridges	4 tape cartridges	4 tape cartridges	4 tape cartridges
Dimensions*7: H x W x D (mm)	52.5 x 167 x 223	54.5 x 189 x 115	51.5 x 168 x 114	51.5 x 182 x 118
Approximate weight (g)*8	610	430	300	335
Bundled tape cartridge	12mm x 1	12mm x 1	9mm x 1	9mm x 1

*1. English / Spanish / French / Portuguese / Czech / Polish / Hungarian / German / Italian / Dutch / Finnish / Swedish / Danish / Norwegian *2. English / Chinese
*3. English / Spanish / French / German / Italian / Swedish *4. English / Spanish / French / German / Italian *5. AD-A95100 *6. Continuous printing
*7. The height dimension includes the feet. *8. Not including batteries

Label Printer Options

Colour Tape (8m)

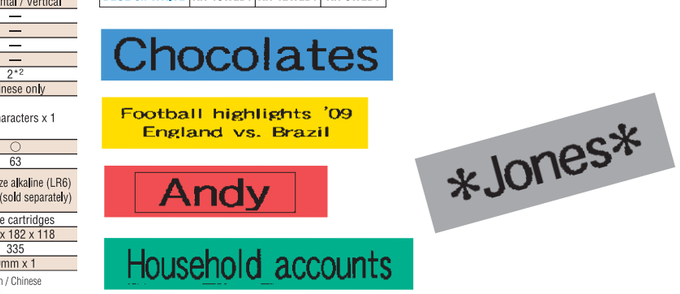
Width	24mm	18mm	12mm	9mm	6mm
BLACK on WHITE	XR-24WE1	XR-18WE1	XR-12WE1	XR-9WE1	XR-6WE1
BLACK on CLEAR	XR-24X1	XR-18X1	XR-12X1	XR-9X1	XR-6X1
BLACK on RED	XR-24RD1	XR-18RD1	XR-12RD1	XR-9RD1	XR-6RD1
BLACK on YELLOW	XR-24YW1	XR-18YW1	XR-12YW1	XR-9YW1	XR-6YW1
BLACK on BLUE	XR-24BU1	XR-18BU1	XR-12BU1	XR-9BU1	—
BLACK on GREEN	XR-24GN1	XR-18GN1	XR-12GN1	XR-9GN1	XR-6GN1
BLACK on GOLD	—	XR-18GD1	XR-12GD1	XR-9GD1	—
BLACK on SILVER	—	XR-18SR1	XR-12SR1	XR-9SR1	—

Colour Tape (Colour Letters · 8m)

Width	18mm	12mm	9mm
RED on WHITE	XR-18WER1	XR-12WER1	XR-9WER1
BLUE on WHITE	XR-18WEB1	XR-12WEB1	XR-9WEB1

Iron-on Transfer Tape (5m)

Width	18mm
BLACK INK	XR-118BK1



LABEL PRINTERS

Wide Selection of Label-making Functions for Various Circumstances!

EZ-Label Printer EZ-LABEL PRINTER LABEL IT!

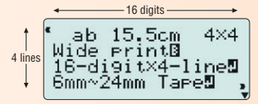
Multi-function office model for tapes up to 24mm wide!

NEW

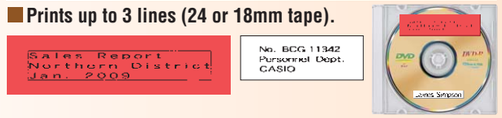
KL-820

■ **Large, easy-to-read, 16-digit, 4-line LCD**

*3-line input area



■ **Prints up to 3 lines (24 or 18mm tape).**



■ **Designed Logo printing**

A selection of 60 complete built-in label designs combining frequently used words with illustrations.

PRICE labels (10): Special, On Sale
SIGN labels (20): No Smoking, Pull
WORK labels (10): Urgent, Handle With Care
ATTENTION labels (20): No Mobile Phones, Fire Extinguisher

*Available in 6 languages (English/Spanish/French/German/Italian/Swedish)

■ **Handles 24,18,12, 9 and 6mm tape widths.**

*12mm print head/200dpi resolution

■ **Numbering**

The consecutive number printing function comes in handy.

*Numbering from 0 to 999
*You can print up to nine numbered labels per print operation.

■ **Print preview**

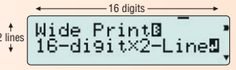
■ **5 installed fonts**

Handy home model for organizing your home!

NEW

KL-120

■ **Large 16-digit, 2-line LCD**



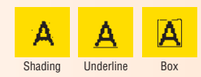
■ **Handles 18, 12, 9 and 6mm tape widths.**

■ **12mm print head/200dpi resolution**

■ **Prints up to 2 lines (18 or 12mm tape).**

■ **Print preview**

■ **3 character effects**



Personal model with basic functions!

KL-60

KL-60SR

* Supplies extremely limited

■ **4-digit, 1-line LCD**

■ **Handles 12, 9 and 6mm tape widths.**

■ **5mm print head/160 dpi resolution**

■ **Prints up to 2 lines (12 or 9mm tapes)**

■ **3 character effects**

The portable, easy-to-use Chinese label printer

KL-170 PLUS

■ **Five Chinese input methods**
Beijing Pin-yin, Canton Pin-yin, Zhu-yin, Chang-ji, Simplified Chang-ji

■ **Chinese and English fonts built in**
圓體, 黑體, 明體, Logo style, Stencil

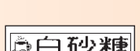
■ **4-digit, 1-line LCD**

■ **Supports label tape size: 18mm/12mm/9mm/6mm**

■ **Prints up to 2 lines on a single label**

■ **6 character sizes**

■ **212 special characters built in**



FUNCTION SYMBOLS

Scientific Calculator/Financial Consultant

763 FUNCTIONS — Number of functions

NATURAL V.P.A.M. / NATURAL TEXTBOOK — Natural V.P.A.M. display / Natural textbook display
Display expression same as textbook.

S-V.P.A.M.
(Super Visually Perfect Algebraic Method)
All the features of the existing V.P.A.M. series plus a new 2-line display and a useful Replay function. All this helps to make mathematics easier to use and easier to understand than ever before.

V.P.A.M.
(Visually Perfect Algebraic Method)
Calculations exactly as they are written. Calculation status symbols and intermediate display capabilities help make calculations easier.

STAT-data — STAT-data editor
Back-step viewing and editing of input data.

List-based STAT — List based STAT-data editor
Viewing and editing of input data in list format, showing data groups (x-data, y-data, frequency) and surrounding data.

Multi-replay — Multi-replay
Quick and easy recall of previously executed formulas for editing and re-execution.

10+2 DIGITS — 10 + 2 digits
10-digit mantissa + 2-digit exponential display.

COLOUR LCD — Colour display
Data is shown in three colours for quick and easy comprehension.

ICON MENU — Icon menu
Specify the operation you want to perform by selecting an icon or inputting a number.

DOT MATRIX — Dot matrix display
High-resolution screen provides beautiful looking graphs every time.

TWO WAY POWER — Two-way power (Solar + Battery)
Solar powered in sunlight, battery powered when lighting is low.

Data communication with a personal computer
Allows data communication with a personal computer.

BEST VIEW — Best view
Larger display characters are easier on the eyes, taking some of the fatigue out of your work.

SUPER SOLAR — Super solar
Solar cell powers calculations even when lighting is relatively dim.

Plastic Keys — Plastic keys
Designed and engineered for easy operation.

Profit Margin % — Profit margin percent
% key gives quick access to prices and profits, and also delivers add-ons, discounts, ratios, increase/decrease values and regular percentages.

×÷ +− — Function command signs
A symbol (+, −, ×, ÷) on the display indicates the type of operation you are currently performing.

Practical Calculator/Printing Calculator

EXTRA BIG DISPLAY — Extra big display
Larger display makes more data easier to read.

BIG DISPLAY — Big display
Big, easy-to-read display.

BEST VIEW — Best view
Large display characters are easier for reading, reduce fatigue from work.

TWO WAY POWER — Two-way power (Solar + Battery)
Solar powered when light is sufficient, battery powered when light is insufficient.

SUPER SOLAR — Super solar
Solar cell powers calculations even when lighting is relatively dim.

Key Rollover — Key rollover
Key operations are stored in a buffer, so nothing is lost even during high-speed input.

Plastic Keys — Plastic keys
Designed and engineered for easy operation.

Metal Cover — Durable metal cover
Tough cover stands up to rough treatment.

COST SELL MAR — Cost/Sell/Margin
Calculate the cost, selling price, or margin of profit on an item, given the other two values.

Tax & Exch. — Tax & exchange function
Tax calculation and currency conversion functions.

TAX — Tax calculation
Automatic calculation of price plus tax, price less tax, discount, selling price, tax amount, discount amount, and margin amount.

TILT DISPLAY — Tilt Display
The degree of display can be adjusted freely.

Day Calcu. — Day/Date calculation
Day/Date calculations allow easy input and calculation of duration or date.

12:34 Time Calcu. — Time calculation
Time calculation allows easy input and calculation of hour, minute, and second values.

Conversion — Metric conversion function
Conversion between metric units and another measurement unit.

Profit Margin % — Profit margin percent
% key gives quick access to prices and profits, and also delivers add-ons, discounts, ratios and increase/decrease values.

% — Regular percent
Regular percentage calculations.

MU / MU MD — Mark-up/Mark-down
All the mark-up/mark-down capabilities of an adding machine for simplified cost and profit calculations.

BIG ×÷ +− — Super command signs
Big, easy-to-read command signs show your current operation at a glance.

×÷ +− — Function command signs
A symbol (+, −, ×, ÷) on the display indicates the status of operation you are currently performing.

Clock & Calendar
Printing the current time and date.

120 STEPS CHECK — 120 steps check
Displays up to 120 previous calculation steps.

LINE PRINT — Line printing
Line printing for higher speed, superior print quality, and quieter operation.

2 COLOUR PRINT — 2-colour printing
Positive values are shown in black, and negative values are shown in red for easy checking.

3.5 LINES/SEC. — 3.5 line-per-second printing
The value indicates the number of lines printed per second.

Heavy-duty durable keys
Keys are produced by injecting plastic of two different colours. Key markings are plastic, which means they do not wear or fade with use.

MODEL INDEX

Red numbers indicate new models.

Ⓑ indicates that blister pack is also available. Ⓒ indicates that clamshell packaging is also available.

SALES PROMOTION MATERIALS, NEWSPAPER/MAGAZINE ADVERTISEMENT AND ACTIVITIES

SALES PROMOTION MATERIALS

Calculators and label printers normally are not included with promotion materials.

Display Stand for Label Printers

- Size: L400 × W500 × H1800mm
- Weight: approx. 28.0 kg

NEW

Display Stand for Stylish Calculators*

- Size: L355 × W420 × H25mm
- Weight: approx. 3.2 kg

NEW

** Stylish Calculators shown in the photo are included.*

Attention Pop Kit for Label Printers

- Corner Sheet × 3
- Sticker Sheet × 1
- Attention POP × 1
- Sticker Clip × 3

NEW

Unit Stand (PPSD7)

- Size: 76H × 66W × 95Dmm
- Weight: 25g

CASIO Logo Sticker

- Size: 210 × 297mm

Display Stand for Colourful Calculators

- Size: L250 × W250 × H520mm

Display Tool Kit for Practical Calculators

- Display stand
  Size: (L250 × W450 × H320mm) × 1
- Attention POP × 6
- Poster × 3
- Banner × 1

Display Tool Kit for Scientific Calculators ES Series

- Poster × 2
- Panel × 1
- Stuffer (with box) × 100 pcs/box
- Banner × 1
- POP product advertisement × 5
- Card for sales staff explanations × 1

NEWSPAPER/MAGAZINE ADVERTISEMENT

Scientific Calculator Artwork

Brand Artwork

MS Series

ES Series

Financial Consultant Artwork

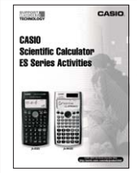
FC-200V / 100V

Printing Calculator Artwork

Cost, selling Price and Margin models

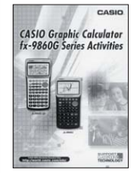
Thermal Printer models

ACTIVITIES

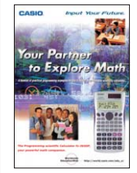


Scientific Calculator
Activities for ES Series

(Activities for MS Series are also available.)



Graphic Calculator
Activities for fx-9860G Series



"Your Partner to Explore Math"
Activities for fx-3650P

Financial Consultant
Calculation Examples for FC-200V/100V

Support Your Classroom with Technology

Scientific Calculators

ClassPad 330 *fx-9860G Slim*

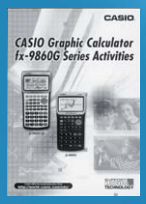
Easy-to-use products developed for educational needs

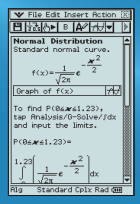
Professional Development

Seminars for teachers on scientific calculator use for more attractive lessons

Classroom Activities

Activities / eActivities

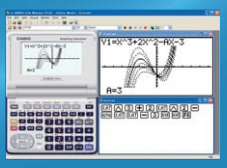




Paper-backup teaching materials and digital worksheets to help students understand better

Optional Tools

PC software **Presentation tools**



Optional tools that make scientific calculators even more effective

〈 Full classroom support with technology on our CASIO Worldwide Education Website 〉

http://edu.casio.com

For information about Accessories and Options of Calculators models, visit http://www.casio-intl.com/calc/

CASIO®

CASIO COMPUTER CO., LTD.
Tokyo, Japan

**Designs and specifications are subject to change without notice.*

BS0807-040001A DI 英 Printed in Japan