

# CASIO®

Your Best Answer **Reliable & Durable**

General Catalogue 2010-2011

# ELECTRONIC CALCULATORS

Office & School



SCIENTIFIC CALCULATORS



PRACTICAL CALCULATORS



PRINTING CALCULATORS



LABEL PRINTERS



<http://world.casio.com/>

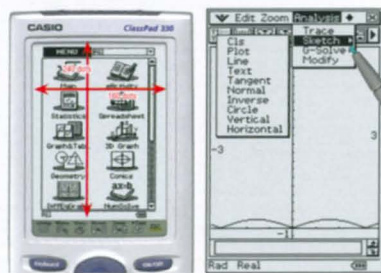
# SCIENTIFIC CALCULATORS

## GRAPHIC MODELS WITH CAS CAPABILITY

### User-friendly Interface

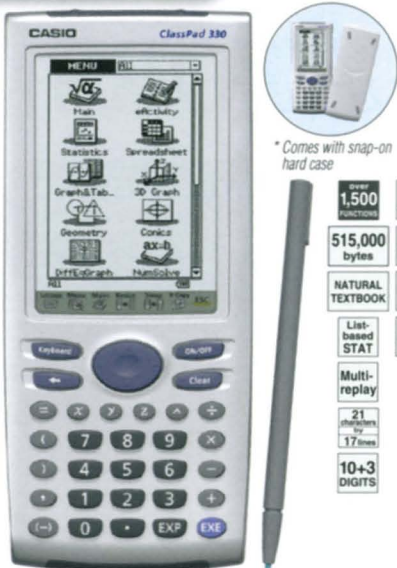
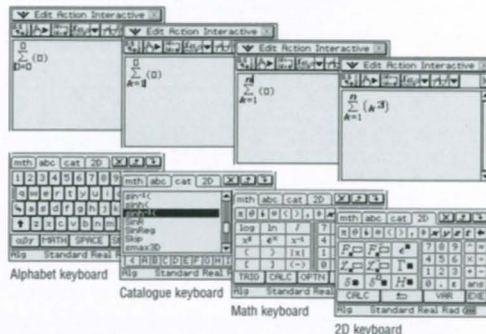
#### Pen Touch Operation

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 x 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  $\log$ ,  $\Sigma$ ,  $\int$ ,  $d/dx$ ,  $\lim$ , 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.



\* Comes with snap-on hard case

over 1,500 Applications

515,000 bytes

NATURAL TEXTBOOK

List-based STAT

Multi-replay

21 Mathbook by 17imes

10+3 DIGITS

## ClassPad 330

### ClassPad 330 Built-in Applications

#### 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),  $\delta$ ,  $\Gamma$ ,  $H$ , and more.

#### 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.

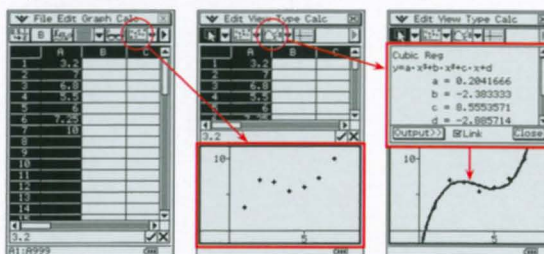
#### Financial Application

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.

### Spreadsheet Application

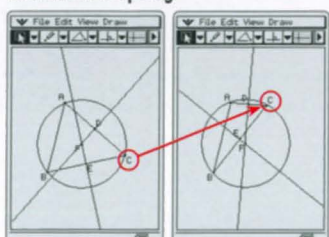
#### Improved Spreadsheet Application

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.



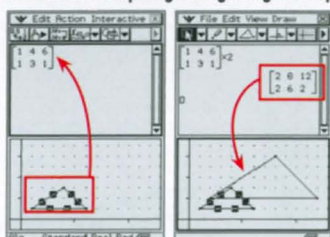
### Geometry Application

#### Geometric Graphing



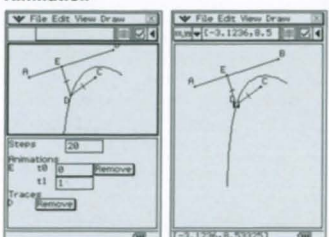
Students can learn the general theorems by drawing figures, and can confirm that a theorem still holds true even when the form of the triangle is altered.

#### Geometric Graphing Using Drag & Drop



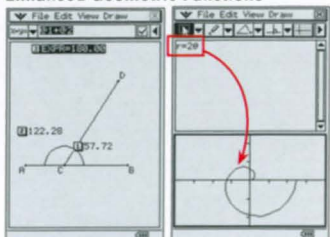
Dropping a geometric figure into the Main application window will produce the numerical data for the figure. Conversely, dropping numerical data into the Geometry window will produce the applicable figure.

#### 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.

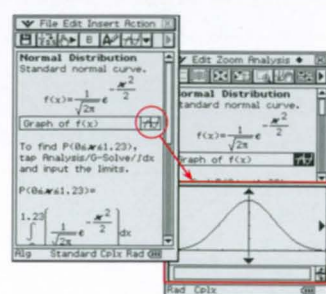
#### Enhanced Geometric Functions



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.

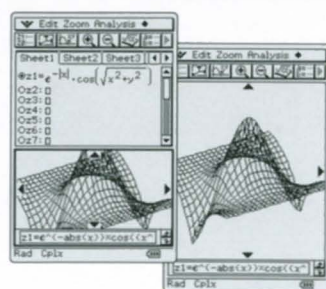
### eActivity Application

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 ( $\sqrt{\quad}$ ,  $x^2$ ,  $x^{-1}$ ,  $x^1$ ,  $\sqrt[n]{\quad}$ ,  $x^n$ )
- Simultaneous equations
- Real and Complex results • List • Matrix
- Combination  $nCr$ , Permutation  $nPr$
- 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
- $\Sigma$ ,  $\Pi$ ,  $\lim$  • Dirac Delta, Heaviside Unit Step, Gamma

## STATISTICS

- List-based one- and two-variable statistical analysis
- Statistical regression calculations
- Statistical plot (Scatter Plot,  $xy$ Line, 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.

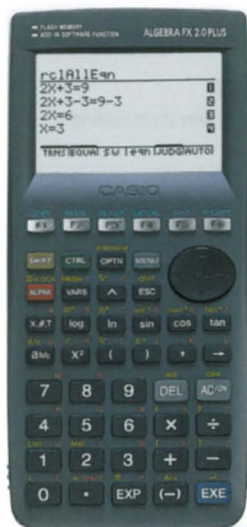
## HARDWARE

- Dimensions: 21.0(H)  $\times$  84.0(W)  $\times$  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  $\times$  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/dl/>

ALGEBRA FX 2.0 PLUS



- Large display (128  $\times$  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-124USB 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, Professor John Kenelly, and other math instructors. It directly incorporates advice and suggestions from math teachers.

Factorization

$$\begin{aligned} & \text{Factor}(x^2+9) \\ & (x-2i)(x+2i) \end{aligned}$$

Differential

$$\begin{aligned} & \text{diff}(\cos(x), x, 2) \\ & e^{-\cos(x)} + e^{-\sin(x)} \end{aligned}$$

Taylor expansion

$$\begin{aligned} & \text{Taylor}(\sin(x), x, 9) \\ & x^9 - \frac{x^7}{7!} + \frac{x^5}{5!} - \frac{x^3}{3!} + x \end{aligned}$$

## 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.

$$\begin{aligned} & \text{Solve}(x) \\ & \text{Solve}(x) \end{aligned}$$

$$\begin{aligned} & \text{Solve}(x) \\ & \text{Solve}(x) \end{aligned}$$

$$\begin{aligned} & \text{Solve}(x) \\ & \text{Solve}(x) \end{aligned}$$

## 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

With Natural-V.P.A.M. and backlit display.  
The next-generation graphic scientific calculator.



fx-9860GII SD

• SD memory card not included



fx-9860GII

- 2,900 Functions
- 62,000 bytes
- NATURAL V.P.A.M.
- List-based STAT
- Multi-replay
- 21 Applications
- 10+2 DIGITS
- ICON MENU
- DOT MATRIX
- Plastic Keys
- SD CARD

\*SD model only.



\* Comes with slide-on hard case.



## User-friendly Interface

- Rectangular coordinate graphing, Polar coordinate graphing
- Integration graph
- Parametric function graphing, Inequality graphing
- Trace, Zoom (box zoom, zoom in, zoom out, auto zoom)
- Table and Graph
- Dual Graph (table and graph, graph and graph)
- Sketch (tangent line, normal line, inverse function)
- Solve (root, minimum, maximum, intersection, integration)
- Dynamic graph
- Conic section graph
- Recursion graph
- List-based one-variable and two-variable statistical analysis
- Statistical regression calculations
- Statistical plot (scatter plot, xyLine, normal probability plot, histogram, box plot)
- Statistical regression graphs (linear, med-med, quadratic, cubic, quartic, logarithmic, exponential, power, sinusoidal, logistic regression)
- Advanced statistical calculations: tests (Z-test, t-test, Chi square test, F-test, ANOVA), intervals (Z-interval, t-interval), distributions
- Pie chart
- Bar graph
- Power functions (square root, cubic root, square, power, radical root)
- GCD/LCM
- Coordinate conversion (Pol, Rec)
- Combination/Permutation ( $nCr$ ,  $nPr$ )
- Factorial, Inverse, random numbers, Fractions
- Logical operations
- Matrix calculations
- Complex number calculations
- Base- $n$  calculations/conversions
- List data calculations
- Metric Conversion
- Natural format equation output
- Calculation history
- Spreadsheet and statistical plot
- Numeric equation solver, simultaneous equations, polynomial equations
- Financial calculations
- Programming
- Icon menu
- SD memory card slot (fx-9860GII SD only)
- Data communication
- User memory: 62,000 bytes, User Storage memory: 1.5 M bytes

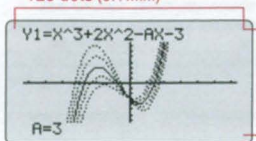


## Hardware Features

### High-resolution LCD

The large 64 × 128-dot display of the fx-9860GII Series high-resolution LCD produces formulas, graphs and graphics that are sharper, clearer, and easier to read.

128 dots (67.4mm)



64 dots (33.7mm)

fx-9860GII series  
Large 64 × 128 dot display.



Backlight on

### High-speed CPU

A high-performance, high-speed CPU gives fx-9860GII Series calculators processing speeds that are three to five times faster than other brand calculators in their class. Processes and plots encountered in complex calculations and graphics are handled with ease, for enhanced operational efficiency and learning as well.

### Large-capacity 1.5MB Flash Memory

An ample 1.5MB of Flash Memory capacity allows worry-free downloading and storage of data and applications.

### Out-of-the-box USB Operations

A USB cable, unit-to-unit cable and Program-Link Software all are included with the calculator, so high-speed data communication with a computer as well as unit-to-unit data and program transfers can be performed virtually out of the box.



### SD Memory Card Slot (SD model only)

The fx-9860GII SD is equipped with an SD memory card slot for easy data transfers.



Natural textbook display!

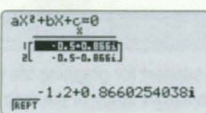
NATURAL-V.P.A.M.

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.

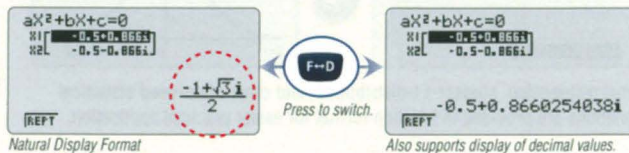
Natural Output

Polynomial equation result

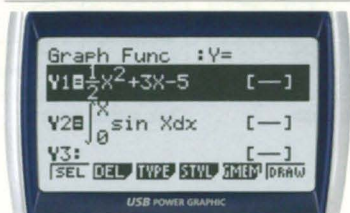
Previous Models



Natural Output Model



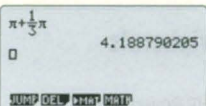
Natural Input



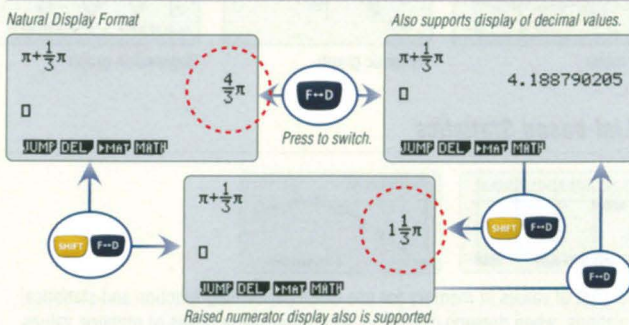
Natural Input now supported in the Graph Mode!

Result of expression with Pi symbol

Previous Models

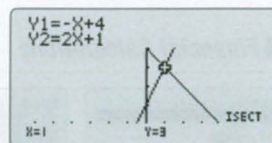
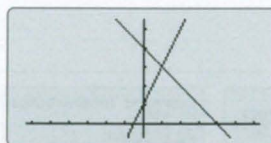
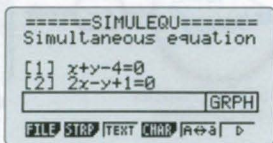
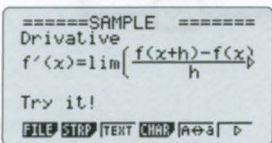


Natural Output Model



eActivity

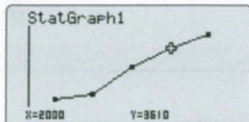
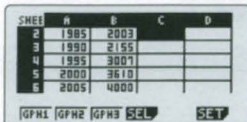
fx-9860GII Series calculators come with the same eActivity capabilities that originally appeared on the ClassPad 330. Now teachers as well as students can create their own problems and study materials. Students get the opportunity to learn at their own pace for more efficient study both at school and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



Built-in Software

Spreadsheet

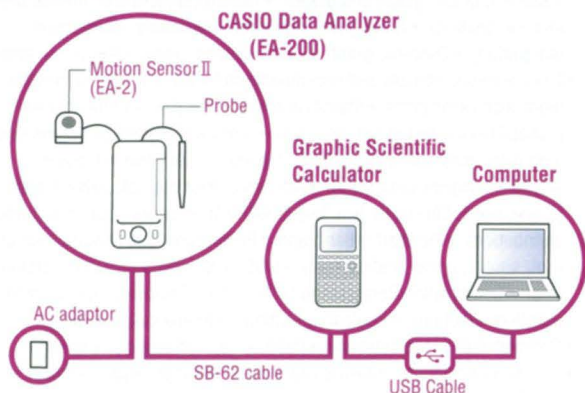
A multi-function spreadsheet with built-in graphing capabilities is a valuable tool for table calculation lesson exercises.



E-CON2

E-CON2 provides total control over the optional EA-200 Data Analyzer. It makes it possible to measure changes in temperature, sound, or speed using the EA-200 without any troublesome settings or program input.

EA-200/E-CON2 System Configuration



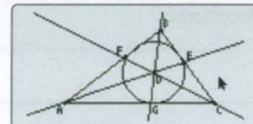
Add-in Software

Pre-installed Software

Pre-installed add-in software comes installed on the calculator when you purchase it. You can use such software as-is, or you can delete it to free up memory.

Geometry

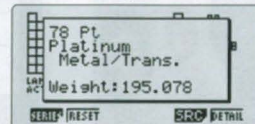
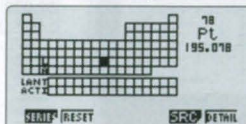
Geometry add-in software is designed to make learning geometry fun.



Downloadable Software

Physium

The Physium add-in provides instant access to the periodic table of elements, whose data can be used in calculations. Often-use elements and atomic symbols can be stored for quick and easy recall whenever you need them.



Add-in software can be downloaded from the CASIO website.  
<http://edu.casio.com/dl/>

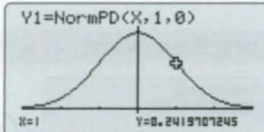


## Other Features

### Probability

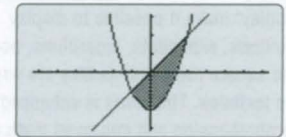
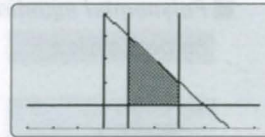
```
NormPD(1,1,0)
tCD(0,1,1)
0.2419707245
0.25
```

t.Pd t.Cd Invt



Normal distribution, student's t-distribution, and other often-used statistical calculations are provided in function format for easier practical application.

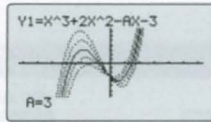
### Inequality Graphing



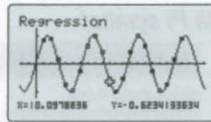
New support for graphing the inequality of an  $x = \text{Constant}$  graph and  $x = f(y)$  graph allows study of the area for which the  $x$ -range is defined.



Icon menu



Dynamic graph



Regression graph

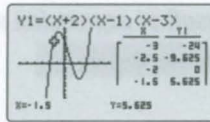
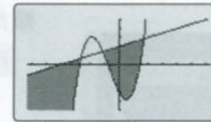
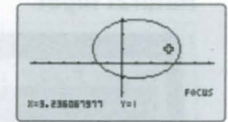


Table & Graph



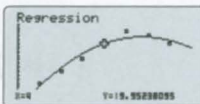
Integration graph



Conic section graph

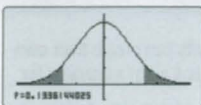
### List-based Statistics

LIST	LIST	LIST	LIST
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20



Store a list of values in memory for use when performing function and statistical calculations, when drawing graphs, or when generating tables of numeric values.

### Advanced Statistics



Perform tests, confidence interval, probability distribution, and other calculations and graphing.

1-sample t-test graph

### Financial Calculations

Depreciation

$PV=1000$   
 $FV=500$   
 $J=1$   
 $Y=1-3$

Depreciation

Bond Calculation

$d1=05/10/2004$  (TUE)  
 $d2=12/15/2006$  (FR1)  
 $RDU=100$   
 $CPN=3$   
 $PRC=0$   
 $YLD=0$

Bond calculation

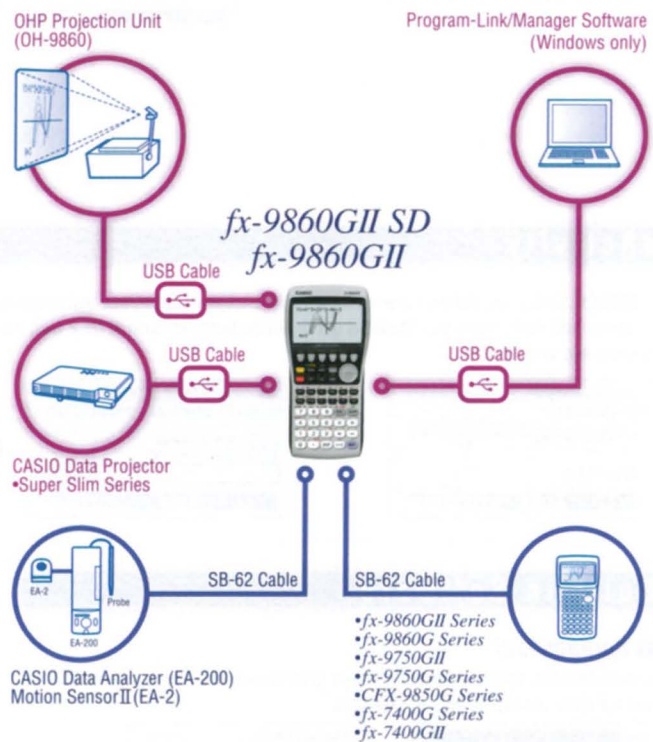
Compound Interest: End

$n=60$   
 $Iz=2.7$   
 $PV=-35000$   
 $FV=62424.50117$   
 $P/Y=12$

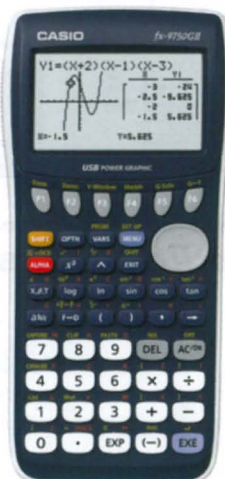
Compound interest

- Depreciation
- Bond calculation
- Simple interest
- Compound interest
- Investment appraisal (cash flow)
- Amortization
- Interest rate conversion (annual percentage rate and effective interest rate)
- Cost, selling price, or margin
- Day or date calculations

### Peripherals



New features give you the tools to create outstanding classroom presentations!



$fx-9750GII$

- Over 2,800 Functions
- 10+2 DIGITS
- 62,000 bytes
- ICON MENU
- List-based STAT
- DOT MATRIX
- Multi-replay
- 21 Functions for 8 Lines
- Plastic Keycap



\* Comes with slide-on hard case.

### POWER GRAPHIC

- Dot matrix display (64 × 128 dots)
- Probability
- Inequality Graphing
- Rectangular coordinate graphing, Polar coordinate graphing
- Integration graph
- Parametric function graphing
- Trace, Zoom (box zoom, zoom in, zoom out, auto zoom)
- Table and Graph
- Dual Graph (table and graph, graph and graph)
- Sketch (tangent line, normal line, inverse function)
- Solve (root, minimum, maximum, intersection, integration)
- Dynamic graph
- Conic section graph
- Recursion graph
- List-based one-variable and two-variable statistical analysis
- Statistical regression calculations
- Statistical plot (scatter plot,  $x, y$  Line, normal probability plot, histogram, box plot)
- Statistical regression graphs (linear, med-med, quadratic, cubic, quartic, logarithmic, exponential, power, sinusoidal, logistic regression)
- Advanced statistical calculations: tests (Z-test, t-test, Chi square test, F-test, ANOVA), intervals (Z-interval, t-interval), distributions
- Pie chart
- Bar graph
- Power functions (square root, cubic root, square, power, radical root)
- GCD/LCM
- Coordinate conversion (Pol, Rec)
- Combination/Permutation ( $nCr$ ,  $nPr$ )
- Factorial, Inverse, random numbers, Fractions
- Logical operations
- Matrix calculations
- Complex number calculations
- Base- $n$  calculations/conversions
- List data calculations
- Metric Conversion
- Numeric equation solver, simultaneous equations, polynomial equations
- Programming
- Icon menu
- User memory: 62,000 bytes
- Data communication
- USB port



fx-9860G Slim

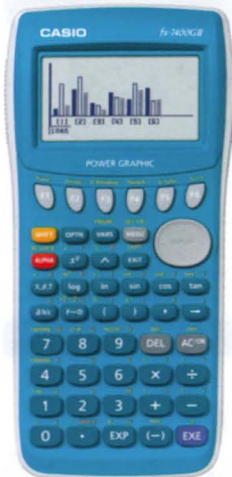
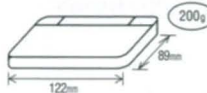
- over 1,000 FUNCTIONS
- 63,000 bytes
- NATURAL TEXTBOOK
- List-based STAT
- Multi-replay
- 21 programs in 8 lines
- 10+2 DIGITS
- ICON MENU
- DOT MATRIX
- Plastic Keys



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

**User-friendly Interface**

- Large display (64 x 128 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 • Backlight • Help and on-screen guidance



fx-7400G II

**NEW**

- over 2,100 FUNCTIONS
- 20,000 bytes
- List-based STAT
- Multi-replay
- 21 programs in 8 lines
- 10+2 DIGITS
- ICON MENU
- DOT MATRIX
- Plastic Keys

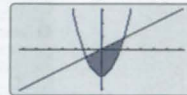


\* Comes with slide-on hard case

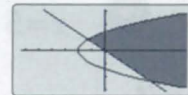
**Main Functions**

**Inequality Graphing**

Supports graphing of  $X > f(y)$ , inequalities.

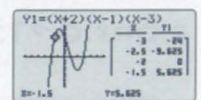


$Y1 > f(x)$ ,  
 $Y1 < f(x)$ , ...



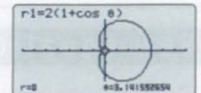
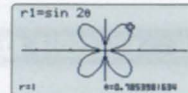
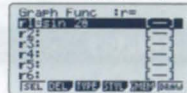
$X1 > f(y)$ ,  
 $X1 < f(y)$ , ...

**Graph & Table**

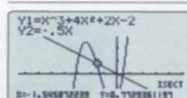


**Polar Graph**

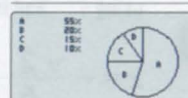
Supports graphing of polar type graphs.



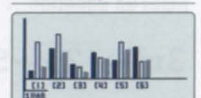
**Graph Solve Function**



**Pie Chart**



**Bar Graph**



**POWER GRAPHIC**

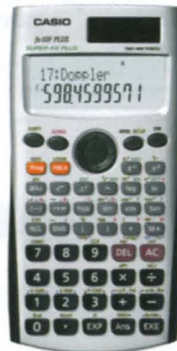
- High-definition display (64x128 dots) • Inequality Graphing • Polar Graph • X= Graph • Graph Solve Function (Root, Intersection) • Sketch (Tangent) • Bar Graph/Pie Chart • Random Number Function
- Quotient, Remainder • String Functions • Unit Conversion • Solve Calculations (EQUA mode) • GCD/LCM • 12 Types of Regression • Complex Calculations • Catalog Function • Polynomial Function (EQUA mode) • Simultaneous Functions (EQUA mode) • Base-*n* Calculation • Display Language Setting • Data communication (requires optional 3-pin cable, FA-124 USB for connecting with PC)

**Programmable Models**



SUPER-FX PLUS  
fx-5800P

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



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

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



SUPER-FX  
fx-3650P  
SUPER-FX  
fx-3950P



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



fx-4500PA

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

**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.

**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

**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

**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



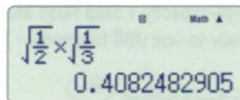
## Natural textbook display!

## NATURAL-V.P.A.M.

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.

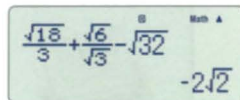
### Natural input

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



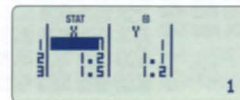
### Natural output

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.



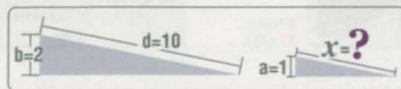
\*Conventional input method can also be used.

## New feature! No one upgrades the classroom environment like CASIO!

### Ratio calculation 95ES PLUS

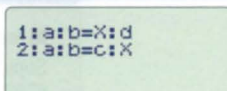
Select the ratio type and enter the non-x coefficients...

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



The calculator displays the value of x.

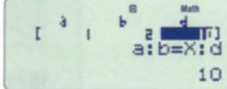
$$x=5$$



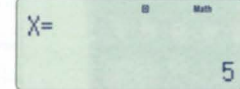
1 Select the ratio type.



2 Enter the non-x coefficients.



3 Enter the non-x coefficients.



4 X-value appears on the display.

### New equation mode 95ES PLUS 570ES PLUS 991ES PLUS

Input an equation...

$$3x^2 + \sqrt{2}x + 5 = 0$$

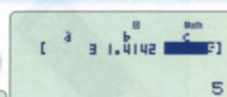
The calculator displays a solution using  $\sqrt{\quad}$  and fractions.

$$x = -\frac{\sqrt{2}}{6} \pm \frac{\sqrt{58}}{6}i$$

Previous

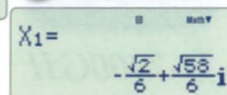


Decimal value display



1 Input an equation.

NEW



$\sqrt{\quad}$  and fraction display

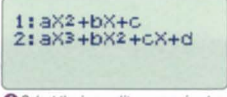
### Inequality 95ES PLUS

Select the inequality type and enter the non-x coefficients...

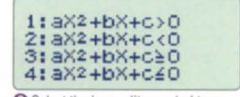
$$x^2 + 2x - 15 < 0$$

The calculator displays the solution of the inequality

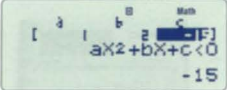
$$-5 < x < 3$$



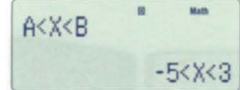
1 Select the inequality expression type.



2 Select the inequality symbol type.



3 Enter the non-x coefficients.



4 The inequality solution appears on the display.

## 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.  
 $56 = 2^3 \times 7$



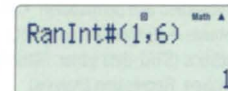
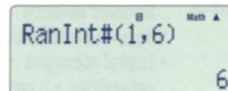
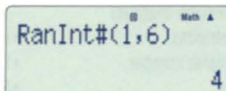
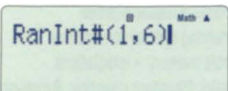
Factor display



### 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.



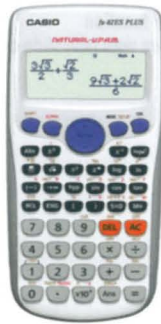
Natural-V.P.A.M. Models

AAA-size (R03) battery



(Black)

fx-82ES PLUS



(White)

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

Two-way power



fx-85ES PLUS

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

AAA-size (LR03) battery



fx-350ES PLUS

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

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

$$\text{Pol}\left(\frac{1}{8}, \frac{\sqrt{3}}{8}\right)$$

$$r=0.25, \theta=60$$

Power calculation

$$2^2 + 3^3 + 4^4 = 287$$

Statistics



Regression calculation

$$1.376315789$$

$\Sigma x^2$  value calculation

$$7.13$$

Trigonometry

$$\cos(30) = \frac{\sqrt{3}}{2}$$

Table function

$$f(x) = x^2 + \frac{1}{2}$$

Formula registration



Start?

$$1$$

Start value input

End?

$$5$$

End value input

Step?

$$1$$

Set up step value

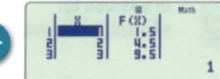


Table calculation

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

AAA-size (R03) battery



fx-95ES PLUS

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

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

- 1:  $ax+by=c$
- 2:  $ax+by+cz=d$
- 3:  $ax^2+bx+c=0$
- 4:  $ax^3+bx^2+cx+d=0$

Simultaneous linear equations

$$X = -\frac{1}{13} \rightarrow Y = \frac{16}{13}$$

Quadratic equation

$$X_1 = \frac{-\sqrt{2} + \sqrt{6}}{2} \rightarrow X_2 = \frac{-\sqrt{2} - \sqrt{6}}{2}$$

Cubic equation

$$X_1 = -5 \rightarrow X_2 = 2 \rightarrow X_3 = 1$$

AAA-size (R03) battery



fx-570ES PLUS

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

Two-way power



fx-991ES PLUS

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

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

$$\int_0^2 \frac{1}{2} dx = 1$$

Complex number calculations

$$\frac{-3+2i}{2+i} = -\frac{4}{5} + \frac{7}{5}i$$

Differential

$$\frac{d}{dx}(\sin(x)) \Big|_{x=\frac{\pi}{2}} = 0$$

Vector

$$\begin{bmatrix} 1 \\ -1 \end{bmatrix} \cdot \begin{bmatrix} 1 \\ 1 \end{bmatrix} = -1$$

Matrix operations

$$\text{MatA}(m \times n) \cdot \text{MatB}(n \times p)$$

$$\begin{matrix} 1: 3 \times 3 & 2: 3 \times 2 \\ 3: 3 \times 1 & 4: 2 \times 3 \\ 5: 2 \times 2 & 6: 2 \times 1 \end{matrix}$$



## Natural Display Models

AAA-size (R03) battery



*fx-82ES*

Two-way power



*fx-85ES*

AAA-size (LR03) Alkaline battery

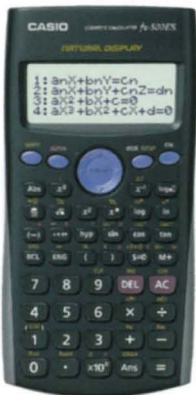


*fx-350ES*

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*

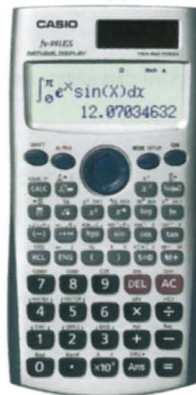
253  
FUNCTIONS  
NATURAL  
TEXTBOOK  
List-based  
STAT  
Multi-  
replay  
10+2  
DIGITS  
DOT  
MATRIX  
Plastic  
Keys

- 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

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

Two-way power



*fx-85MS*

Button-type battery



*fx-350MS*

AA-size battery



*fx-95MS*

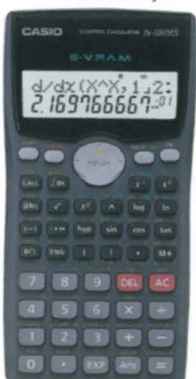
244  
FUNCTIONS  
S-V.P.A.M.  
STAT-  
data  
Multi-  
replay  
2-LINE  
DISPLAY  
10+2  
DIGITS  
DOT  
MATRIX  
Plastic  
Keys

- 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* *fx-115MS*

Two-way power



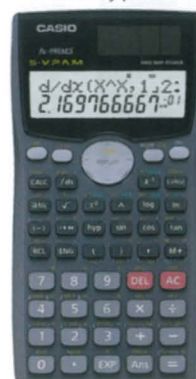
300  
FUNCTIONS  
S-V.P.A.M.  
STAT-  
data  
Multi-  
replay  
2-LINE  
DISPLAY  
10+2  
DIGITS  
DOT  
MATRIX  
Plastic  
Keys

- 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* *fx-570MS*

Button-type battery



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

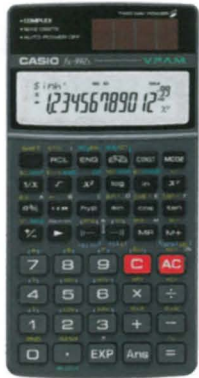
- Fraction calculations
- Combination and permutation
- Statistics (STAT-data editor, Standard deviation, Regression analysis)
- 9 variables
- Comes with slide-on hard case

**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

V.P.A.M. Model

Two-way power



fx-992s

Built-in complex number calculations plus 128 scientific constants

- 383 Functions
- V.P.A.M.
- 12+2 DIGITS

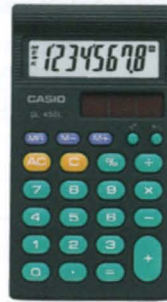
- Statistical calculations
- Engineering symbol calculations
- Base-n calculations/conversions



\* Comes with slide-on hard case

School Cal

Tough, durable design with classroom features.



SL-450L  
8 DIGITS

- Solar
- Plastic Keys
- Profit Margin %
- X $\frac{1}{\pm}$
- +/-

- Display: LCD • Digits: 8
- Simple algebraic logic
- Independent memory • %
- Profit Margin % •  $\sqrt{\quad}$  • +/-
- 3-digit comma markers
- Power supply: solar
- Dimensions: 7.8(H) x 67(W) x 120(D) mm
- Approximate weight: 47 g



\* Comes with slide-on hard case

Financial Consultant

Two-way power



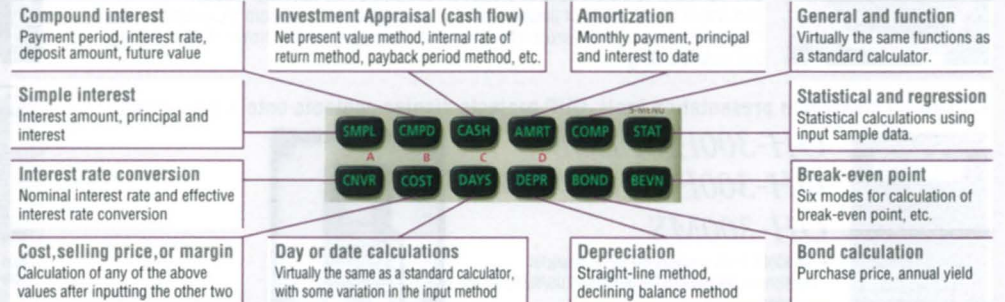
FINANCIAL CONSULTANT  
FC-200V

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

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.



AAA-size (R03) battery



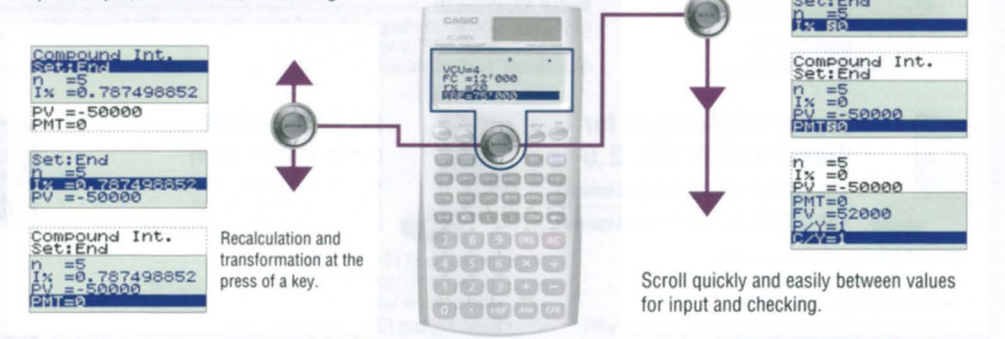
FINANCIAL CONSULTANT  
FC-100V

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

	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.



- 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) x 80(W) x 161(D) mm,  
FC-100V/13.7(H) x 80(W) x 161(D) mm
- Approximate weight:  
FC-200V/105g, FC-100V/110g

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.



## Data Analysis System Quick and accurate collection supports data analysis.



**EA-200**

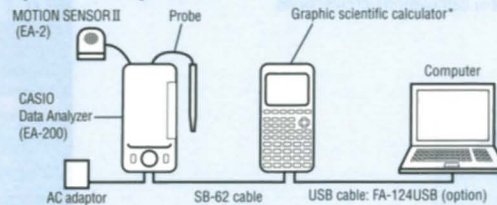
- Collect data at rates of up to 50,000 points per second for up to 120,000 points.
- Compatible with the CASIO fx-7400 series, CFX-9850 series, ALGEBRA FX 2.0 series, fx-9860G series, fx-9750G series and ClassPad series.

**Includes:**

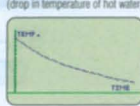
- CASIO Data Analyzer
- Temperature probe
- Optical probe
- Voltage probe
- Data communication cable: SB-62
- AC adaptor: AD-A60024
- Soft case
- Four AA-size alkaline batteries

\* Data transfer to Classpad series is possible only via main 3-pin port, not via sub ports.

### System Configuration



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



\*ClassPad 330/fx-9860GII SD/fx-9860GII /fx-9860G Slim/fx-9860G SD/fx-9860G/fx-9750GII/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-9850GB PLUS/fx-9750G/fx-9750G PLUS/fx-9750GA PLUS/fx-7450G/fx-7400G PLUS/fx-7400GII/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-9850G 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.

## OHP Projection Unit



**OH-9860**  
Makes lessons more interesting

Simply use a USB cable to connect an fx-9860GII SD, fx-9860GII, fx-9750GII 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.

## 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.

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.



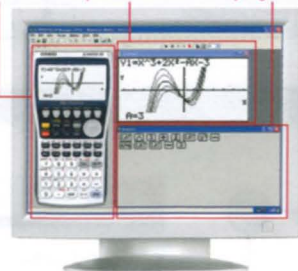
All the functions of the ClassPad 330

**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

## Software

Simulator Captured screen Key log window



**FA-9860A Ver. 2.0 • fx-Manager PLUS (Single License)**

**FA-9860B Ver. 2.0 • fx-Manager PLUS (School License)**

- fx-9860GII SD, fx-9860GII, fx-9750GII or fx-9860G Slim Calculator Emulation Mimics calculator operation using a computer mouse and keyboard.
- Copy and paste between the Spreadsheet application and Excel®
- Key-Log Editor Key-Log auto play of recorded key operations Step playback
- Emulator LCD screen capture • Screen Receiver

**System Requirements**

Operating System: Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional (32-bit), Windows Vista® (32-bit), Windows® 7 (32-bit)

Others: Microsoft® Excel® 2000, Microsoft® Excel® 2003, or Microsoft® Excel® 2007

**FA-124USB Data Communication Package**



**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® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional (32-bit), Windows Vista® (32-bit), Windows® 7 (32-bit)

Disk Space: 100 MB available for installation  
Memory: Recommended for operating system



**FC EMULATOR (for FC-100V/FC-200V)**

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

- Emulation of FC-100V/200V Emulation of FC-100V/200V calculator operation using your computer mouse and keyboard.
- Basic KeyLog (Copy and paste only)
- Emulator LCD screen image capture

**System Requirements**

Operating Systems: Windows® 2000 Professional, Windows® XP Home Edition, Windows® XP Professional (32-bit), Windows Vista® (32-bit), Windows® 7 (32-bit)



**fx-ES Emulator (for fx-82ES Series)**

**fx-ES PLUS Emulator (for fx-82ES PLUS Series)**

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 Professional, Windows® XP Home Edition, Windows® XP Professional (32-bit), Windows Vista® (32-bit), Windows® 7 (32-bit)

Scientific Calculators Specification Table

		Graphic Models						Programmable Models			
		ClassPad 330	ALGEBRA FX 2.9 PLUS	fx-9860GII SD	fx-9860GII	fx-9860G Slim	fx-9750GII	fx-7400GII	fx-5800P	fx-50F PLUS fx-50FH	fx-3650P
Specifications	Number of functions	(Over 1,500)* <sup>1</sup>	Over 1,500	(Over 2,900)* <sup>2</sup>	(Over 2,900)* <sup>2</sup>	(Over 1,000)* <sup>3</sup>	(Over 2,800)	(Over 2,100)	664	406	279
	Power supply (Main)	AAA x 4	AAA x 4	AAA x 4	AAA x 4	AAA x 2	AAA x 4	AAA x 4	AAA x 1 (LR03)	Two-way power (Solar + LR44 x 1)	Two-way power (Solar + LR44 x 1)
	Power supply (Backup)	—	CR2032 x 1	—	—	—	—	—	—	—	—
	Approximate battery life Main (hours)	140 (LR03)* <sup>1</sup>	140 (R03)* <sup>2</sup> / 230 (LR03)* <sup>2</sup>	200 (LR03)* <sup>1</sup>	200 (LR03)* <sup>1</sup>	140 (LR03)* <sup>1</sup>	230 (LR03)* <sup>1</sup>	230 (LR03)* <sup>1</sup>	1 year* <sup>3</sup>	3 years (LR44)* <sup>3</sup>	3 years (LR44)* <sup>3</sup>
	Approximate battery life Backup (years)	—	2	—	—	—	—	—	—	—	—
	Dimensions HxWxD(mm)	21 x 84 x 189.5	19.5 x 82 x 178	21.2 x 91.5 x 184	21.2 x 91.5 x 184	20.7 x 122 x 89	21.3 x 87.5 x 180.5	21.3 x 87.5 x 180.5	15.1 x 81.5 x 163	12.2 x 80 x 161	11.8 x 80 x 159
	Approximate weight (g)	280	213	225	220	200	205	205	150	105	100
	Case style	Snap-on hard	Slide-on hard	Slide-on hard	Slide-on hard	—	Slide-on hard	Slide-on hard	Integrated hard	Slide-on hard	Snap-on hard
	Dot matrix display	160 x 240 dots	64 x 128 dots	64 x 128 dots	64 x 128 dots	64 x 128 dots	64 x 128 dots	64 x 128 dots	31 x 96 dots	5 x 7 dots x 16 digits	5 x 6 dots x 12 digits
	Display capacity (characters)	20 x 17	21 x 8	21 x 8	21 x 8	21 x 8	21 x 8	21 x 8	16	16	12
	Mantissa + exponent digits	10 + 3	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2
	Icon menus	●	●	●	●	●	●	●	—	—	—
	Internal operation digits	15	15	15	15	15	15	15	15	15	12
	Nested parentheses levels	Up to memory	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)	●
	Memory (bytes)	515,000	146,000	62,000	62,000	63,000	62,000	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	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 – 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 <sup>-1</sup> /cos <sup>-1</sup> /tan <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/sinh <sup>-1</sup> /cosh <sup>-1</sup> /tanh <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●
	Exponential, logarithmic (log, ln, 10 <sup>x</sup> , e <sup>x</sup> )	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	●	—	—	—	—	—	—	●	—	—
	Power and radical root (x <sup>y</sup> /x <sup>√</sup> )	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	—	—	—	—	—	—	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	—	—	—	—	—	—	—	—
	Integer division	—	—	—	—	—	—	—	—	—	—
	GCD/LCM	●	●	●	●	●	●	●	●	●	—
	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 2-6)	● (Degree 2-6)	● (Degree 2, 3)	● (Degree 2-6)	● (Degree 2-6)	● (Degree 2, 3)	—	—
	Inequality calculation	●	—	—	—	—	—	—	—	—	—
	Table function	●	●	●	●	—	—	—	—	—	—
	Matrix calculations	●	●	●	●	●	●	●	●	●	●
	Complex number calculation	●	●	●	●	●	●	●	●	●	●
Geometry	Geometry Application	●	—	● (Preloaded)	● (Preloaded)	—	—	—	—	—	—
	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	●	●	●	●	●	●	●	●	●	●
	a/b 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	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	
Finance	Financial function	●	●	●	●	●	●	—	—	—	—
	Spreadsheet	●	—	●	●	●	—	—	—	—	—
Others	eActivity	●	—	●	●	● (eActivity Guide)	—	—	—	—	—
	Data communication	●	●	●	●	●	●	●	—	—	—
	Others	Picture, Presentation, 3D graph, DiffEq Graph	Recursions	Recursions Backlight display	Recursions Backlight display	Recursions Backlight display	Recursions	—	Recursions	—	—

\*<sup>1</sup> Continuous operation (assuming 5 minutes calculation and 55 minutes display per hour) \*<sup>2</sup> Continuous display of main menu \*<sup>3</sup> 1 hour use per day \*<sup>4</sup> Continuous display of flashing cursor \*<sup>5</sup> When left with power turned off \*<sup>6</sup> 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-570ES PLUS	fx-991ES 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 x 1	CR2032 x 1	AAA x 1 (R03)	Two-way power (Solar + LR44 x 1)	AAA x 1 (LR03)	AAA x 1 (R03)	AAA x 1 (R03)	Two-way power (Solar + LR44 x 1)	AAA x 1 (R03)	Two-way power (Solar + LR44 x 1)	AAA x 1 (LR03)	AAA x 1 (R03)
	Power supply (Backup)	—	CR2032 x 1	—	—	—	—	—	—	—	—	—	—
	Approximate battery life Main (hours)	9,000 <sup>**</sup> / 3 years <sup>**3</sup>	5,000 <sup>**4</sup>	17,000 <sup>**4</sup>	3 years (LR44) <sup>**3</sup>	8,700 <sup>**1</sup>	17,000 <sup>**4</sup>	17,000 <sup>**4</sup>	3 years (LR44) <sup>**3</sup>	17,000 <sup>**4</sup>	3 years (LR44) <sup>**3</sup>	8,700 <sup>**1</sup>	17,000 <sup>**4</sup>
	Approximate battery life Backup (years)	—	2	—	—	—	—	—	—	—	—	—	—
	Dimensions HxWxD(mm)	11.8 x 80 x 159	9.9 x 73 x 141.5	13.8 x 80 x 162	11.1 x 80 x 162	13.8 x 80 x 162	13.8 x 80 x 162	13.8 x 80 x 162	11.1 x 80 x 162	13.7 x 80 x 161	12.2 x 80 x 161	13.7 x 80 x 161	13.7 x 80 x 161
	Approximate weight (g)	100	85	100	95	100	100	100	95	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 x 6 dots x 12 digits	5 x 7 dots x 12 digits	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 96 dots	31 x 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	
	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 <sup>-1</sup> /cos <sup>-1</sup> /tan <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●	●	
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/sinh <sup>-1</sup> /cosh <sup>-1</sup> /tanh <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●	●	
	Exponential, logarithmic (log, ln, 10 <sup>x</sup> , e <sup>x</sup> )	●	●	●	●	●	●	●	●	●	●	●	
	Base specified logarithmic	—	—	●	●	●	●	●	●	●	●	●	
	Power and radical root (x <sup>y</sup> , x <sup>√y</sup> )	●	●	●	●	●	●	●	●	●	●	●	
	Fraction	●	●	●	●	●	●	●	●	●	●	●	
	Percentage calculation (%)	●	●	●	●	●	●	●	●	●	●	●	
	Rounding	●	●	●	●	●	●	●	●	●	●	●	
	Simplification	—	—	—	—	—	—	—	—	—	—	—	
	Integer division	—	—	—	—	—	—	—	—	—	—	—	
	GCD/LCM	—	—	—	—	—	—	—	—	—	—	—	
	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	Geometry Application	—	—	—	—	—	—	—	—	—	—	—	
	Coordinate conversion (Pol, Rec)	●	●	●	●	●	●	●	●	●	●	●	
	Vector calculations	—	—	—	—	—	—	—	—	—	—	—	
Probability	Combination, permutation (nCr, nPr)	●	●	●	●	●	●	●	●	●	●	●	
	Random numbers	●	●	●	●	●	●	●	●	●	●	●	
Statistics	Random integers	—	—	●	●	●	●	●	●	—	—	—	
	List-based STAT data editor	●	—	●	●	●	●	●	●	●	●	●	
	Standard deviation	●	●	●	●	●	●	●	●	●	●	●	
	Regression analysis	●	●	●	●	●	●	●	●	●	●	●	
	Linear regression	●	●	●	●	●	●	●	●	●	●	●	
	a <sup>b</sup> 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	—	—	—	—	—	—	—	—	—	—	—	
Others	eActivity	—	—	—	—	—	—	—	—	—	—	—	
	Data communication	—	—	—	—	—	—	—	—	—	—	—	
	Others	—	—	—	—	—	—	—	—	—	—	—	

13 <sup>1</sup> Continuous operation (assuming 5 minutes calculation and 55 minutes display per hour) <sup>2</sup> Continuous display of main menu <sup>3</sup> 1 hour use per day <sup>4</sup> Continuous display of flashing cursor <sup>5</sup> When left with power turned off <sup>6</sup> 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
Specifications	Number of functions	403	403	240	240	240	244	300	300	401	401	383
	Power supply (Main)	Two-way power (Solar + LR44 x 1)	AAA x 1 (R03)	AA x 1	Two-way power (Solar + LR44 x 1)	LR44 x 1	AA x 1	AA x 1	Two-way power (Solar + LR44 x 1)	Two-way power (Solar + LR44 x 1)	LR44 x 1	Two-way power (Solar + LR44 x 1)
	Power supply (Backup)	—	—	—	—	—	—	—	—	—	—	—
	Approximate battery life Main (hours)	3 years (LR44) <sup>+3</sup>	17,000 <sup>+1</sup>	17,000 <sup>+1</sup> / 2 years <sup>+5</sup>	3 years (LR44) <sup>+3</sup>	9,000 <sup>+1</sup> / 3 years <sup>+5</sup>	17,000 <sup>+1</sup> / 2 years <sup>+5</sup>	17,000 <sup>+1</sup> / 2 years <sup>+5</sup>	3 years (LR44) <sup>+3</sup>	3 years (LR44) <sup>+3</sup>	9,000 <sup>+1</sup> / 3 years <sup>+5</sup>	3 years (LR44) <sup>+3</sup>
	Approximate battery life Backup (years)	—	—	—	—	—	—	—	—	—	—	—
	Dimensions HxWxD(mm)	12.2 x 80 x 161	13.7 x 80 x 161	18.6 x 85 x 156	12.2 x 85 x 155	12.2 x 85 x 155	19.5 x 78 x 155	20 x 78 x 155	12.7 x 78 x 154.5	12.7 x 78 x 154.5	12.7 x 78 x 154.5	8.8 x 73 x 144
	Approximate weight (g)	105	110	125	100	100	130	133	105	105	105	74.3
	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
	Dot matrix display	31 x 96 dots	31 x 96 dots	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 12 digits	5 x 6 dots x 4 digits
	Display capacity (characters)	15	15	12	12	12	12	12	12	12	12	—
	Manissa + exponent digits	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	10 + 2	12 + 2
	Icon menus	—	—	—	—	—	—	—	—	—	—	—
	Internal operation digits	15	15	15	15	15	12	12	12	12	12	14
	Nested parentheses levels	24	24	24	24	24	24	24	24	24	24	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
	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 <sup>-1</sup> /cos <sup>-1</sup> /tan <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/sinh <sup>-1</sup> /cosh <sup>-1</sup> /tanh <sup>-1</sup> )	●	●	●	●	●	●	●	●	●	●	●
	Exponential, logarithmic (log, ln, 10 <sup>x</sup> , e <sup>x</sup> )	●	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	●	●	—	—	—	—	—	—	—	—	—
	Power and radical root (x <sup>y</sup> /x <sup>√</sup> )	●	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	●	●	●	●	●	●	●	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	—	—	—	—	—	—	—	—	—
	Integer division	—	—	—	—	—	—	—	—	—	—	—
	GCD/LCM	—	—	—	—	—	—	—	—	—	—	—
	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)	—
	Polynomial equation	● (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	Geometry Application	—	—	—	—	—	—	—	—	—	—	—
	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	—	—	—	—	—	—	—	—	—	—	—
	Data communication	—	—	S-V.P.A.M.	S-V.P.A.M.	S-V.P.A.M.	S-V.P.A.M.	S-V.P.A.M., Normal distribution	S-V.P.A.M., Normal distribution	S-V.P.A.M., Normal distribution	S-V.P.A.M., Normal distribution	V.P.A.M.
	Others	—	—	—	—	—	—	—	—	—	—	—

# PRACTICAL CALCULATORS

Dress up your desktop with your favorite design.

## Stylish Calculator

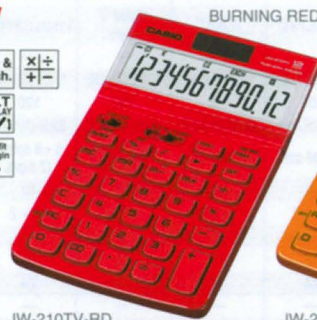
### Five Styles Calculator

Five distinctively designed calculators that are fun to own and use. Express your individuality with a stylish calculator.

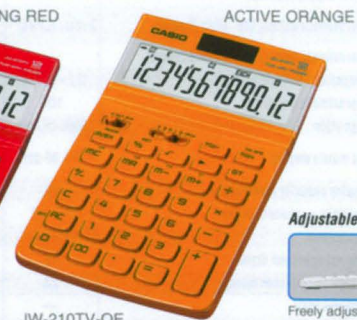


**NEW**

- EXTRA LARGE DISPLAY
- TWO-WAY POWER
- Key Rollover
- Plastic Keys
- Metal Facplate
- Tax & Exch.
- TILT DISPLAY
- Profit Margin %



JW-210TV-RD

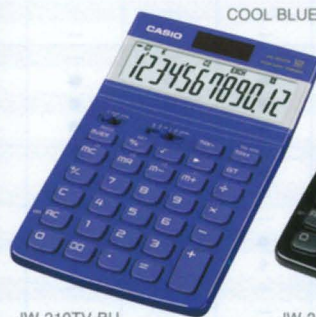


JW-210TV-OE

Adjustable Tilt Display



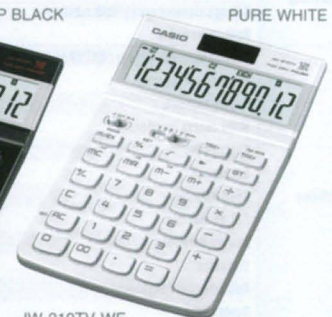
Freely adjustable display angle



JW-210TV-BU



JW-210TV-BK



JW-210TV-WE

Compact desk type JW-210TV 12 DIGITS

**NEW**

- EXTRA LARGE DISPLAY
- TWO-WAY POWER
- Key Rollover
- Plastic Keys
- Metal Facplate
- TAX
- Time Calc.
- Profit Margin %

Portable type SL-1110TV 12 DIGITS



SL-1110TV-RD



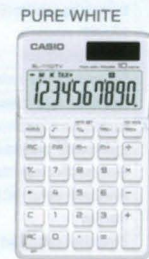
SL-1110TV-OE



SL-1110TV-BU



SL-1110TV-BK

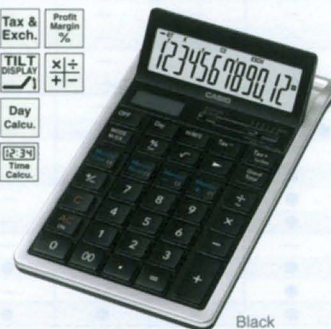


SL-1110TV-WE

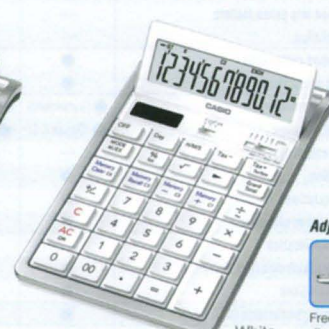
## The Designer Calculator



- EXTRA LARGE DISPLAY
- TWO-WAY POWER
- Key Rollover
- Plastic Keys
- Tax & Exch.
- TILT DISPLAY
- Day Calc.
- Profit Margin %



Black



White

Adjustable Tilt Display



Freely adjustable display angle

Compact desk type RT-7000 12 DIGITS

Model	Digits	Independent memory	GT	%	Profit margin %	☑	+/-	▶	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	5/4	Cut	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)	Case	Others
JW-210TV	12	○	○	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	26.1×107×178.5	170	—	—
SL-1110TV	10	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	8.5×70×118.5	60	Wallet	—
RT-7000	12	○	○	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	19.7×108.5×180	250	—	Day/Date Calculations
MS-10VC	10	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	26.2×105.5×144	100	—	—
SL-300VC	8	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	8×70×118.5	50	Wallet	—
MS-6VC	8	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	19.2×87×120.5	70	—	—
SL-100VC	8	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	13.5×91×55 9.4×91×110.5	55	—	—

© Folded ☐ Unfolded



A choice of colours to suit your style.

**My Colour Selection**



MS-10VC-PK MS-10VC-BE MS-10VC-YW MS-10VC-PL MS-10VC-BK



MS-10VC-WE MS-10VC-GN MS-10VC-RD MS-10VC-OE MS-10VC-BU

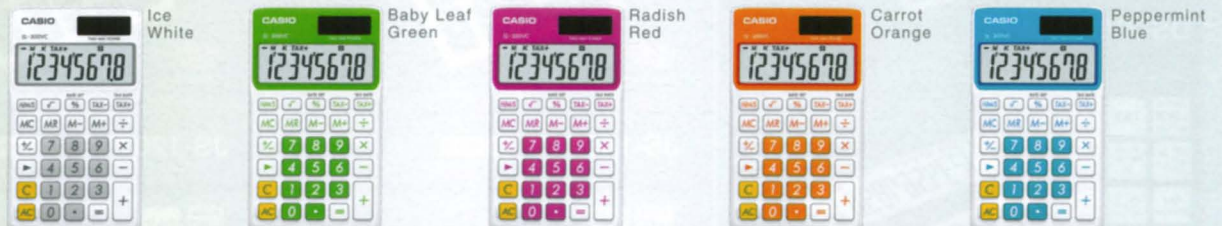
- EXTRA LARGE DISPLAY TAX
- TWO WAY POWER Time Calc.
- Key Rollover Profit Margin %
- Plastic Keys  $\times \div$   $+$   $-$

Mini desk type

MS-10VC 10 DIGITS



SL-300VC-PK SL-300VC-BE SL-300VC-YW SL-300VC-PL SL-300VC-BK



SL-300VC-WE SL-300VC-GN SL-300VC-RD SL-300VC-OE SL-300VC-BU

- EXTRA LARGE DISPLAY TAX
- TWO WAY POWER Time Calc.
- Key Rollover Profit Margin %
- Plastic Keys  $\times \div$   $+$   $-$

Portable type

SL-300VC 8 DIGITS



MS-6VC-YW MS-6VC-RD



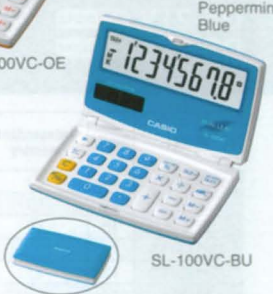
MS-6VC-BU MS-6VC-GN

- LARGE DISPLAY Profit Margin %
- TWO WAY POWER  $\times \div$   $+$   $-$
- Key Rollover TAX

Portable type  
SL-100VC 8 DIGITS



SL-100VC-OE



SL-100VC-BU

- LARGE DISPLAY TAX
- TWO WAY POWER Profit Margin %
- Key Rollover  $\times \div$   $+$   $-$
- Plastic Keys

Mini desk type

MS-6VC 8 DIGITS

# Designed and engineered for performance.

## What makes a CASIO "HEAVY DUTY Calculator"?

**HEAVY DUTY Calculator**

**TWP (Two-Way Power)**  
Solar powered when light is sufficient, battery powered when light is insufficient.

**Extra Large Display**  
Larger display makes more data easier to read.

*Actual size*

**Function Command Signs**  
A symbol (+, -, ×, ÷) on the display indicates the status of the operation you are currently performing.

**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*

**A tilt display with adjustable angle for ease of viewing**  
The tilt display ensures ease of viewing.

*JS-140TVS/120TVS only*

**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 Layout and Key Cap Shape**  
Keys are ergonomically shaped and configured to match natural finger movements.

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

**A slim, flat body for excellent portability**  
This slim, flat calculator, just 10mm thick, rests comfortably in the hand and fits easily in a bag or briefcase.

*JS-140TVS/120TVS only*

JS-140TVS

### Desk-Top Type

**EXTRA LARGE DISPLAY** 12-34 Time Calc.

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**DS-3V** 14 DIGITS

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**DS-2TV GD** 2 colours

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**DS-1TV** 10 DIGITS

### Compact Desk Type

These elegantly designed calculators feature a thin, highly portable body.

**EXTRA LARGE DISPLAY** Tax & Exch.

**TWO WAY POWER** TILT DISPLAY

**Key Rollover** Profit Margin %

**Plastic Keys** X ±

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-140TVS SR** 2 colours

**EXTRA LARGE DISPLAY** Tax & Exch.

**TWO WAY POWER** TILT DISPLAY

**Key Rollover** Profit Margin %

**Plastic Keys** X ±

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-140TVS BK**

**EXTRA LARGE DISPLAY** Tax & Exch.

**TWO WAY POWER** TILT DISPLAY

**Key Rollover** Profit Margin %

**Plastic Keys** X ±

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-120TVS SR** 2 colours

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-120TVS BK**

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-20TV** 12 DIGITS

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

**HEAVY DUTY Calculator**  
**JS-40V** 14 DIGITS

**EXTRA LARGE DISPLAY** TAX

**TWO WAY POWER** Profit Margin %

**Key Rollover** X ±

**Plastic Keys**

**Metal Facplate**

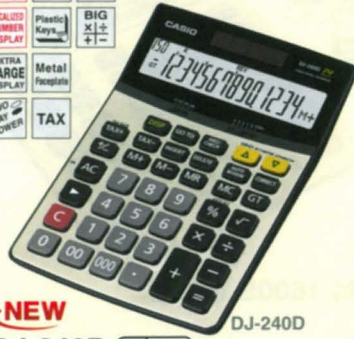
**HEAVY DUTY Calculator**  
**JS-10TV** 10 DIGITS

Model	Digits	Independent memory	GT	%	Profit margin %	✓	+/-	▶	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	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-140TVS	14	○	○	○	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	10×107×179	205
JS-120TVS	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	10×107×179	205
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

Packed with special-purpose features.

### Check Calculator

- 150 STEPS CHECK
- Key Rollover
- Profit Margin %
- Localized Number Display
- Plastic Keys
- BIG  $\times \div \pm$
- EXTRA LARGE DISPLAY
- Metal Faceplate
- TWO WAY POWER
- TAX



**NEW** DJ-240D 14 DIGITS  
DJ-220D 12 DIGITS

- 150 STEPS CHECK
- Key Rollover
- Plastic Keys
- EXTRA LARGE DISPLAY
- %
- TWO WAY POWER
- MU



**NEW** DJ-120D 12 DIGITS

- 150 STEPS CHECK
- Key Rollover
- Plastic Keys
- EXTRA LARGE DISPLAY
- %
- TWO WAY POWER
- MU



**NEW** JJ-120D 12 DIGITS

- 150 STEPS CHECK
- Key Rollover
- Plastic Keys
- EXTRA LARGE DISPLAY
- TAX
- TWO WAY POWER
- %



**NEW** MJ-120D 12 DIGITS  
MJ-100D 10 DIGITS

### 150 Steps Check

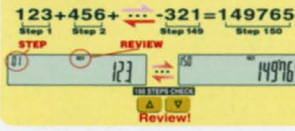
\* The LCD examples are from a DJ-240D.

#### Review and Auto Review

150 STEPS CHECK

Review up to 150 calculation steps

Example



AUTO REVIEW Auto Review by pressing one single button!

#### Correct

CORRECT Quick and easy step editing!

#### Double Check (DJ-240D / DJ-220D only)

ANS/CHECK Compare the results of two calculations!

#### Answer Memory (DJ-240D / DJ-220D only)

ANS/CHECK Recall a previous calculation result and use it in the next calculation!

#### Go To

GO TO Go To feature instantly jumps to a specific step!

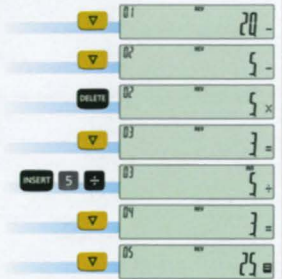
#### Insert / Delete (DJ-240D / DJ-220D only)

INSERT DELETE Add steps to or delete steps from a calculation.

You can add steps to or delete steps from Calculation Memory. Note that if the number of steps in Calculation Memory exceeds 150, you will not be able to review them later.

Example

Current calculation:  $(20-5-5) \times 3 = 30$   
Revised calculation:  $(20-5) \times 5 + 3 = 25$



### Localized Number Display

\* The LCD examples are from a MJ-100D.

#### Supports local digit separator formats

Choose from three digit separator formats (Standard, European, and Indian) and choose a comma or period as the decimal point. Configure your preferred display format to prevent calculation errors and increase convenience.

Standard



European



Indian



#### One-touch switching between digit separator formats

Preselect two digit separator formats and switch between them according to the task.



#### Selectable top and bottom comma position

For ease of viewing, select the familiar bottom comma position used for handwritten numbers.



### Water-protected and Dust-proof Calculator

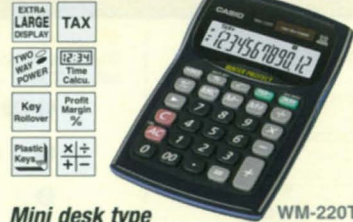
#### Desk-Top type



WD-220T 12 DIGITS

#### Durability and endurance for professional and general users

Complies with IEC 60529 IP 54 (water protect and dust proof)



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

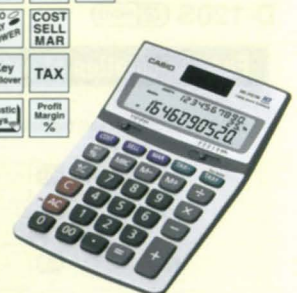
### 3-Line Display Calculator

- EXTRA LARGE DISPLAY
- Metal Faceplate
- Profit Margin %
- TWO WAY POWER
- COST SELL MAR
- Key Rollover
- Tax & Exch.
- Plastic Keys
- Time Calcu.



Desk-Top type DF-320TM 12 DIGITS

- EXTRA LARGE DISPLAY
- Metal Faceplate
- Profit Margin %
- TWO WAY POWER
- COST SELL MAR
- Key Rollover
- TAX
- Plastic Keys
- Profit Margin %



Mini desk type MS-310TM 10 DIGITS

Model	Digits	Independent memory	Cost/Sell/Margin	GT	%	Profit margin %	MU	$\frac{1}{x}$	$\frac{1}{y}$	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions HxWxD (mm)	Approximate weight (g)	Others	
DJ-240D/220D	14/12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	38x146x219	285	150 STEPS CHECK & Localized Number Display
DJ-120D	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	35x140x191	205	150 STEPS CHECK & Localized Number Display
JJ-120D	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	25.2x107x178.5	140	150 STEPS CHECK & Localized Number Display
MJ-120D/100D	12/10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	30.1x123x140	130	150 STEPS CHECK & Localized Number Display
WD-220T	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	34x139x187.5	255	—
WM-220T/200T	12/10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	34.6x104x153.5	135	—
DF-320TM	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	32.3x124x179.5	200	—
MS-310TM	10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	30x103x156	120	—

# Desk-Top Type

**Adding Machine**

- EXTRA LARGE DISPLAY
- TAX
- MU
- MD
- TWO WAY POWER
- %
- Key Rollover
- Plastic Keys

DS-120TV (12 DIGITS)

- EXTRA LARGE DISPLAY
- TAX
- Profit Margin %
- Key Rollover
- Plastic Keys

DM-1200S (12 DIGITS)

- EXTRA LARGE DISPLAY
- Metal Facelate
- TWO WAY POWER
- TAX
- Key Rollover
- Profit Margin %
- Plastic Keys

DM-1600S (16 DIGITS)

- EXTRA LARGE DISPLAY
- Metal Facelate
- Profit Margin %
- TWO WAY POWER
- TAX
- Key Rollover
- Plastic Keys

DM-1400S (14 DIGITS)

- EXTRA LARGE DISPLAY
- COST SELL MAR
- Profit Margin %
- Metal Facelate
- Key Rollover
- TAX
- Plastic Keys

DM-1200MS (12 DIGITS)

- EXTRA LARGE DISPLAY
- %
- TWO WAY POWER
- MU
- Key Rollover
- Plastic Keys

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

- EXTRA LARGE DISPLAY
- Tax & Exch.
- Profit Margin %
- Key Rollover
- Plastic Keys

D-120S (12 DIGITS)

- EXTRA LARGE DISPLAY
- COST SELL MAR
- Profit Margin %
- Metal Facelate
- Key Rollover
- TAX
- Plastic Keys

DF-120MS (12 DIGITS)

- EXTRA LARGE DISPLAY
- Metal Facelate
- Profit Margin %
- TWO WAY POWER
- TAX
- Key Rollover
- TILT DISPLAY
- Plastic Keys
- COST SELL MAR

DW-120MS (12 DIGITS)

Adjustable Tilt Display



Freely adjustable display angle

## Easy calculation of cost, selling price and margin. DM-1200MS / DF-120MS / DW-120MS / JF-120MS / JW-120MS / MS-120MS / MS-100MS

### 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	1'000	COST	1'000.
2		2'000	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 calculation	Tax calculation	Exchange calculation	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions HxWxD (mm)	Approximate weight (g)
DS-120TV	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	40.9x184x186	300
DM-1200S	12	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	34.5x155x210	230
DM-1600S	16	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	35.5x155x210	270
DM-1400S	14	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	35.5x155x210	270
DM-1200MS	12	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	35.5x155x210	265
D-60L	16	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	32x151x158	195
D-40L	14	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	32x151x158	195
D-20L	12	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	32x151x158	195
D-120S	12	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Two-way power	35x126x175	170
DF-120MS	12	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	35.7x122.5x174.5	180
DW-120MS	12	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	32.7x122.5x177.5	195

Compact Desk Type

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys
- Tax & Exch.



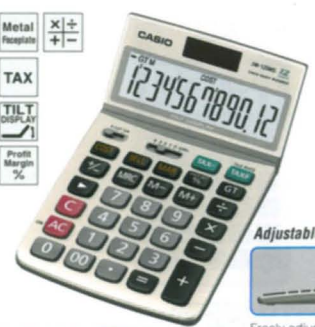
J-120S (12 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys
- COST SELL MAR



JF-120MS (12 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys
- COST SELL MAR



JW-120MS (12 DIGITS)



Mini Desk Type

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-470V (14 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-120MS

MS-120MS (12 DIGITS)  
MS-100MS (10 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-80S (8 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-20S

MS-20S (12 DIGITS)  
MS-10S (10 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-8S (8 DIGITS)

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-270TV

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

- EXTRA LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys



MS-7TV (8 DIGITS)

- EXTRA LARGE DISPLAY
- Plastic Keys
- %



BK (Black)

MW-8V (8 DIGITS)

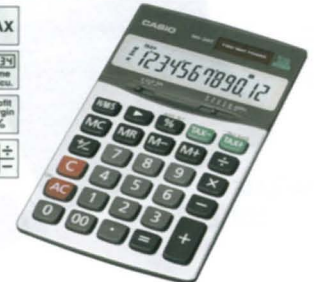
- LARGE DISPLAY
- Plastic Keys
- %



BK (Black)

MW-5V (8 DIGITS)

- LARGE DISPLAY
- TWO WAY POWER
- Key Rollover
- Plastic Keys
- Metal Faceplate



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-120S	12	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	—	25×107×176	145
JF-120MS	12	○	○	○	○	○	○	○	○	○	○	○	0,1,2,3,4	○	Two-way power	—	26.3×107×173	155
JW-120MS	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-120MS/100MS	12/10	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	—	30.7×103×145	120
MS-80S	8	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	—	30.7×103×145	120
MS-20S/10S	12/10	○	○	○	○	○	○	○	○	○	○	○	—	—	Two-way power	—	31.7×103×145	100
MS-8S	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



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



DUAL LEAF  
SL-100L **8** DIGITS

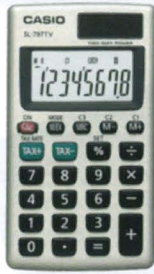
Model	Digits	Independent memory	GT	%	Profit margin %	☑	+/-	▶	3-digit comma markers	Time calculation	Tax calculation	Exchange calculation	5/4	Cut	Decimal selector	Power supply	Approximate battery life (hours)	Dimensions HxWxD (mm)	Approximate weight (g)	Case
LC-1000TV	10	○	—	○	○	—	○	—	○	—	—	—	—	—	—	LR54x1	5,500	7.5x70x118.5	50	Wallet
LC-401LV	8	○	—	○	○	—	○	—	○	—	—	—	—	—	—	LR54x1	4,500	①10.7x75x120 ②7.3x151.5x120	70	Hard
LC-403TV	8	○	—	○	○	—	○	—	○	—	—	—	—	—	—	LR54x1	7,500	7.5x70x118.5	50	Wallet
LC-160LV	8	○	—	○	○	—	○	—	○	—	—	—	—	—	—	LR54x1	6,500	①10x87x58 ②8x120x141	35	Hard
SL-340VA	14	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	7.5x70x118.5	50	Wallet
SL-320TV	12	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	7.5x70x118.5	50	Wallet
SL-315TV	10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	7.5x70x118.5	50	Wallet
SL-300TV	8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	7.5x70x118.5	50	Wallet
SL-300LV	8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	7.5x70x118.5	50	Wallet
SL-240LB	14	○	○	○	○	○	○	○	○	○	○	○	○	○	2	Two-way power	—	①12.5x120x73 ②6.5x120x141	76	—
SL-220TE	12	○	○	○	○	○	○	○	○	○	○	○	○	○	2	Two-way power	—	①12.5x120x73 ②6.5x120x141	76	—
SL-210TE	10	○	○	○	○	○	○	○	○	○	○	○	○	○	2	Two-way power	—	①12.5x120x73 ②6.5x120x141	75.5	—
SL-200TE	8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	①12.5x120x73 ②6.5x120x141	76	—
SL-100L	8	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Two-way power	—	①13.5x91x55 ②9.4x91x110.5	55	—

LR54=LR1130

①Folded ②Unfolded

Portable Type

- LARGE DISPLAY
- Tax & Exch.
- TWO-WAY POWER
- Profit Margin %
- Key Rollover
- Plastic Keys
- Metal Facelate



GD (Gold)



BK (Black)

- LARGE DISPLAY
- Profit Margin %
- TWO-WAY POWER
- Key Rollover
- Metal Facelate
- Tax & Exch.



GD (Gold)



BK (Black)

- SUPER SOLAR
- Profit Margin %
- Key Rollover



GDB (Gold)



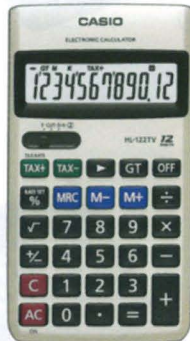
BK (Black)

SL-797TV 8 DIGITS

SL-787TV 8 DIGITS

SL-760LB 8 DIGITS

- LARGE DISPLAY
- TAX
- Key Rollover
- Profit Margin %
- Plastic Keys
- Metal Facelate



HL-122TV 12 DIGITS

- LARGE DISPLAY
- %
- AA SIZE x1



HL-100LB 10 DIGITS

- LARGE DISPLAY
- Plastic Keys
- Metal Facelate
- %



HL-820VA 8 DIGITS

- LARGE DISPLAY
- %



BK (Black)

HL-820LV 8 DIGITS



WE (White)

- LARGE DISPLAY
- %
- AA SIZE x1



BK (Black)

HL-815L 8 DIGITS



WE (White)

- LARGE DISPLAY
- %



HL-4A 8 DIGITS

- LARGE DISPLAY
- %
- TWO-WAY POWER
- Plastic Keys
- Metal Facelate
- MU



HS-8VA 8 DIGITS

- LARGE DISPLAY
- TWO-WAY POWER
- %



HS-8LV 8 DIGITS



BK (Black)

WE (White)

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	① 10×62.5×104 ② 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

- EXTRA LARGE DISPLAY  %
- TWO WAY POWER  MU
- Key Rollover
- Plastic Keys



**GX-16S** 16 DIGITS

- EXTRA LARGE DISPLAY  %
- TWO WAY POWER  MU
- Key Rollover
- Plastic Keys



**GX-14S** 14 DIGITS

- EXTRA LARGE DISPLAY  Metal Faceplate
- TWO WAY POWER  %
- Key Rollover  MU
- Plastic Keys



**GX-120S** 12 DIGITS

- EXTRA LARGE DISPLAY  %
- TWO WAY POWER  MU
- Key Rollover
- Plastic Keys



**GX-12S** 12 DIGITS

- EXTRA LARGE DISPLAY  Metal Faceplate
- TWO WAY POWER  MU
- TILT DISPLAY
- Key Rollover  %
- Plastic Keys



**DX-120ST** 12 DIGITS

Adjustable Tilt Display



Freely adjustable display angle

- EXTRA LARGE DISPLAY  Metal Faceplate
- TWO WAY POWER  %
- Key Rollover  MU
- Plastic Keys



**DX-120S** 12 DIGITS

- EXTRA LARGE DISPLAY  %
- TWO WAY POWER  MU
- Key Rollover
- Plastic Keys



**DX-12S** 12 DIGITS

Model	Digits	Independent memory	GT	%	MU	<input type="checkbox"/>	+/-	<input type="checkbox"/>	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-16S	16	2	—	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
GX-14S	14	2	—	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
GX-120S	12	2	—	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	35.5×155×210	260
GX-12S	12	2	—	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	34.5×155×210	230
DX-120ST	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	32.7×122.5×177.5	195
DX-120S	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	36×126×175	190
DX-12S	12	○	○	○	○	○	○	○	○	—	○	○	○	0,1,2,4	○	Two-way power	35×126×175	170



Compact Desk Type



AX-120ST 12 DIGITS



AX-120S 12 DIGITS



AX-12S 12 DIGITS

Mini Desk Type



MX-120S 12 DIGITS



MX-12S 12 DIGITS



MX-8S 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	<input type="checkbox"/>	+/-	<input type="checkbox"/>	3-digit comma markers	5/4	Cut	Up	Decimal selector	ADD mode	Power supply	Dimensions H×W×D (mm)	Approximate weight (g)	Case
AX-120ST	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,1,2,4	<input type="checkbox"/>	Two-way power	26.1×107×178.5	170	—
AX-120S	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,1,2,4	<input type="checkbox"/>	Two-way power	29.3×107×175.5	165	—
AX-12S	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,1,2,4	<input type="checkbox"/>	Two-way power	25×107×176	145	—
MX-120S	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	30.7×103×145	120	—
MX-12S	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	31.7×103×145	100	—
MX-8S	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	31.7×103×145	100	—
SX-320P	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	7.5×70×118.5	50	Wallet
SX-300P	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	7.5×70×118.5	50	Wallet
SX-300	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	7.5×70×118.5	50	Wallet
SX-220	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	Ⓜ 12.5×120×73 Ⓜ 6.5×120×141	80	—
SX-100	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	Two-way power	Ⓜ 13.5×91×55 Ⓜ 9.4×91×110.5	55	—

Ⓜ Folded Ⓜ Unfolded

# PRINTING CALCULATORS

## Mini-printer

1.6 LINES/SEC  
Tax & Exch.  
LARGE DISPLAY  
Profit Margin %  
Key Rollover  
COST SELL MAR

BK (Cool Black)  
GY (Light Gray)  
RD (Red) **NEW**

HR-8TM 12 DIGITS

## Compact Type

2 COLOR PRINT  
Plastic Keys  
2.0 LINES/SEC  
Tax & Exch.  
EXTRA LARGE DISPLAY  
%  
Key Rollover  
MU MD  
COST SELL MAR

HR-100TM 12 DIGITS

2 COLOR PRINT  
Plastic Keys  
2.4 LINES/SEC  
Tax & Exch.  
EXTRA LARGE DISPLAY  
%  
Key Rollover  
MU MD  
COST SELL MAR

HR-150TM 12 DIGITS

## Desk-Top Type

2 COLOR PRINT  
%  
2.4 LINES/SEC  
MU MD  
TAX

FR-2650T 12 DIGITS

2 COLOR PRINT  
Key Rollover  
%  
3.5 LINES/SEC  
Plastic Keys  
MU MD  
LARGE DISPLAY  
COST SELL MAR  
LINE PRINT  
TAX

BK (Black)  
WE (White)

DR-120TM 12 DIGITS

DR-140TM 14 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 by simply pressing corresponding button. A simple operation also converts between national currencies, with intermediate conversion to U.S. dollars.

### Tax Calculations (Excluding Thermal Printer)

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?

1 CA 150 SELL 150.  
2 30 MAR 105.  
3 MAR 45.  
COST 105.

••0•CA  
150•S\* ← 1 Selling price  
30•M% ← 2 Margin (%)  
105•C◊ ← Cost  
30•M% ← 3 Margin (%)  
45•MT ← Margin amount

### Selling Price

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

1 CA 120 COST 120.  
2 40 MAR 200.  
3 MAR 80.  
SELL 200.

••0•CA  
120•C◊ ← 1 Cost  
40•M% ← 2 Margin (%)  
200•S\* ← Selling price  
40•M% ← 3 Margin (%)  
80•MT ← Margin amount

### Margin

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

1 CA 1000 COST 1'000.  
2 2000 SELL 50.

••0•CA  
1'000•C◊ ← 1 Cost  
2'000•S\* ← 2 Selling price  
50•M% ← Margin (%)

\*Print sample: DR-120TM

Heavy-duty Type

- 2 COLOUR PRINT
- 4.4 LINES/SEC
- LARGE DISPLAY
- LINE PRINT
- Key Rollover
- MU MD
- COST SELL MAR
- TAX
- %



DR-210TM 12 DIGITS

- 2 COLOUR PRINT
- 4.4 LINES/SEC
- LARGE DISPLAY
- LINE PRINT
- Key Rollover
- MU MD
- COST SELL MAR
- TAX
- %



DR-240TM 14 DIGITS

- 2 COLOUR PRINT
- 4.8 LINES/SEC
- EXTRA LARGE DISPLAY
- LINE PRINT
- Key Rollover
- COST SELL MAR
- TAX
- MU MD
- Built-in Backup Battery
- %



DR-270TM 12 DIGITS

**TIME**  
Prints the current time and date

Thermal Printer

Quick (approximately 8 lines/sec.) and quiet

- 8.0 LINES/SEC
- LARGE DISPLAY
- LINE PRINT
- %
- MU MD
- Built-in Backup Battery



DR-T120 12 DIGITS

- 8.0 LINES/SEC
- LARGE DISPLAY
- LINE PRINT
- %
- MU MD
- Built-in Backup Battery



DR-T140 14 DIGITS

- 8.0 LINES/SEC
- 200 STROKE CHECK
- LARGE DISPLAY
- LINE PRINT
- %
- MU MD
- Built-in Backup Battery



DR-T220 12 DIGITS

\*Supplies extremely limited

Model	Display	Digits	Simple algebraic logic	Adding machine	Sub-total/Total	GT	Independent memory	Cost/Sell/Margin	%	Profit margin %	MU/MD	+/-	3-digit comma markers	2-colour printing	Tax calculation	Exchange calculation	Item counter	5/4	Cut Up	Decimal selector	ADD mode	Power supply	Battery	AC adaptor	Ink-roll/ink ribbon	Paper width (mm)	Print speed (lines/s)	Dimensions H x W x D (mm)	Approximate weight	Others
HR-8TM	LCD	12	○	—	—	—	○	○	○	○	—	—	○	—	○	○	—	○	—	0.2	—	AA×4	AD-A60024	IR-40	58	1.6* <sup>1</sup>	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* <sup>1</sup>	67×165.5×285	520g	Average calculation	
HR-150TM	LCD	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0.2,3	○	AA×4	AD-A60024	IR-40T	58	2.4* <sup>1</sup>	67.4×196×317	700g	Average calculation	
FR-2650T	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0.2,3,4	—	AC only	—	IR-40T	58	2.4* <sup>1</sup>	70×206×335	1.1kg	—	
DR-120TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0-6	○	AC only	—	RB-02	58	3.5* <sup>2</sup>	109.3×214.5×382	1.7kg	Average calculation	
DR-140TM	Digitron	14	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0-6	○	AC only	—	RB-02	58	3.5* <sup>2</sup>	109.3×214.5×382	1.7kg	Average calculation, <sup>300</sup>	
DR-210TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0-6	○	AC only	—	RB-02	58	4.4* <sup>2</sup>	109.3×214.5×382	1.7kg	Data print function	
DR-240TM	Digitron	14	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0-6	○	AC only	—	RB-02	58	4.4* <sup>2</sup>	109.3×214.5×382	1.7kg	Data print function, <sup>300</sup>	
DR-270TM	Digitron	12	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	—	0-6	○	AC only	—	RB-02	58	4.8* <sup>2</sup>	109.3×214.5×382	1.9kg	Clock & Calendar	

\*<sup>1</sup> Average speeds of 3-position shift max. & min. speed patterns. \*<sup>2</sup> 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	00/000 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 x W x D (mm) (excluding battery)
DR-T120	12	○	○	○	○	○	○	○	○	00	○	○	No (30-minute auto return to timekeeping)	○	58	8.0* <sup>3</sup>	Font - B	—	—	—	AC only (built-in backup battery)	91×340×213, 1.7
DR-T140	14	○	○	○	○	○	○	○	○	000	○	○		○	58	8.0* <sup>3</sup>	Font - B	—	—	—		91×340×213, 1.7
DR-T220	12	○	○	○	○	○	○	○	○	00	○	○		○	58	8.0* <sup>3</sup>	Font - B, A(2.832), C(3.499)	○	○	○		91×340×213, 1.7

\*<sup>3</sup> Average speed of half line among the printout digits.

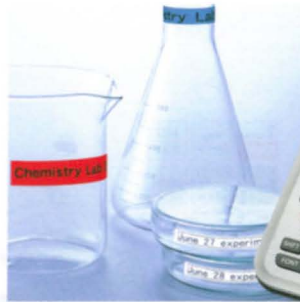
# LABEL PRINTERS

EZ-Label Printer **LABEL IT!**

Plant facilities

Office

Schools & laboratories



KL-7400

## A Business Label Printer for Use in Every Office and Industry



Construction sites



Stores & markets



Schools

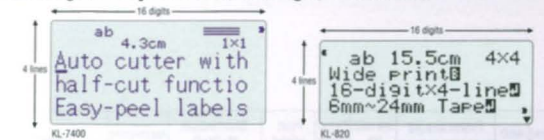


KL-820

**KL-7400/820**  
Handles 24, 18, 12, 9 and 6mm tape widths. • 12mm print head/200dpi resolution



**Large, easy-to-read, 16-digit, 4-line LCD** • 3-line input area



**Designed Logo printing**

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

PRICE labels (10) SIGN labels (20) WORK labels (10) ATTENTION labels (20)

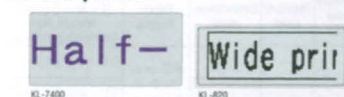


\* Available in 6 languages (English/Spanish/French/German/Italian/Swedish)

**5 installed fonts**



**Print preview**



**Barcode printing**

Prints barcodes for efficient merchandise control.



**KL-7400 Only**

**Auto cutter with half-cut function.**

A built-in auto cutter with half-cut function slits only the label for easy removal from the backing paper. This comes in handy when printing large numbers of labels or using the consecutive number printing function.

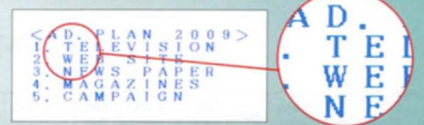


Easy-peel labels



The backing paper is not cut. Slit

**Prints up to 6 lines (24 or 18mm tape).**



**519 illustrations and symbols**

Over 500 built-in illustrations and symbols make expressive, eye-catching label-making easy.



**Numbering**

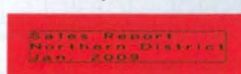
The consecutive number printing function comes in handy when you're producing large numbers of labels.

\*Numbering from 0 to 99,999 \*You can print up to 100 numbered labels per print operation.



**KL-820 Only**

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



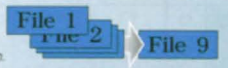
No. BCG-11342  
Personnel Dept.  
CASIO



**Numbering**

The consecutive number printing function comes in handy.

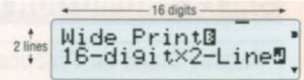
\*Numbering from 0 to 999 \*You can print up to 9 numbered labels per print operation.



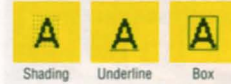
Handy home model for organizing your home!



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!



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 tape)
- 3 character effects

The portable, easy-to-use Chinese label printer (支持中英文)



Five Chinese input methods

Beijing Pin-yin, Canton Pin-yin, Zhu-yin, Chang-ji, Simplified Chang-ji

Chinese and English fonts built in

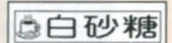
圓體, 黑體, 明體, Logo style, Stencil

4-digit, 1-line LCD

- Handles 18, 12, 9 and 6mm tape widths.
- Prints up to 2 lines (18 or 12mm tape).
- 6 character sizes



405 special characters built in



Label Printer Specifications

Model	KL-7400	KL-820	KL-120	KL-60	KL-170 PLUS
Keyboard layout	QWERTY	QWERTY	QWERTY	QWERTY	QWERTY
LCD	128 x 64 dots	96 x 32 dots	96 x 16 dots	5 x 7 dots + cursor	64 x 16 dots
Display (input data)	16 digits x 3 lines	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	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	200 dpi / 96 dots	160 dpi / 32 dots	200dpi / 64 dots
Unit of length switching	cm / inches	cm / inches	cm / inches	—	—
Printing speed (mm/sec.)	10	6	6	11.6	6
Maximum printing height (mm)	12	12	12	5	8
Maximum printing lines	6	3	2	2	2
Fonts	Sans-serif / Sans-serif italic / Sans-serif rounded / Roman / Roman italic	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 / Shadow / Raised	Normal / Bold / Outline	Normal	Normal / Outline
Character effects	Shading / Underline / Box	Shading / Underline / Box	Shading / Underline / Box	Shading / Underline / Box	Box
Built-in character types	680	248	248	207	8,841
Alphanumeric characters	62	62	62	62	62
Illustrations	124	—	—	—	212
Special characters / symbols	395	87	87	46	193
Countries' characters	99	99	99	99	8,374
Auto cutter with half-cut function	○	○	○	○	○
Frame printing	65	65	—	—	85
Layouts according to use	24	24	18	—	33
Mirror printing	○	○	○	○	○
Printing direction	Horizontal / Vertical	Horizontal / Vertical	Horizontal	Horizontal	Horizontal / Vertical
Printing number setting	100	9	9	—	—
Design logos	60	60	—	—	—
Numbering	○	○	○	○	○
Barcode printing	○	○	○	○	○
Languages supported	14*1	14*1	14*1	14*1	2*2
Message switching	6 languages*3	6 languages*3	5 languages*4	English only	Chinese only
Print job memories	127 characters x 10	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	127	100	80	63	63
Power supply	AC adaptor*5 (included) or 6 x AA-size alkaline (LR6) batteries (sold separately)	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	2 tape cartridges	4 tape cartridges	4 tape cartridges	10 tape cartridges	4 tape cartridges
Dimensions*7: H x W x D (mm)	64.5 x 202 x 216	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	800	610	430	300	335
Bundled tape cartridge	12mm x 1	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. KL-7400-AD-A12150L / KL-820-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)				Iron-on Transfer Tape (5m)	
Width	18mm	12mm	9mm	Width	18mm
RED on WHITE	XR-18WER1	XR-12WER1	XR-9WER1	BLACK INK	XR-118BK1
BLUE on WHITE	XR-18WEB1	XR-12WEB1	XR-9WEB1		

Chocolates

Football highlights '09  
England vs. Brazil

Andy

Household accounts

## SALES PROMOTION MATERIALS

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

### Display Stand for Practical Calculators

- Size: L420 x W650 x H1,870mm
- Weight: approx. 30.0 kg



### Display Stand for Colourful Calculators

- Size: L400 x W400 x H1,800mm
- Weight: approx. 7.0 kg



### Display Stand for Label Printers

- Size: L400 x W500 x H1,800mm
- Weight: approx. 28.0 kg



### CASIO Logo Sticker



- Size: 210 x 297mm

### Attention Pop for Check Calculators



- Size: 128 x 182mm

**NEW**

### Display Stand for Heavy Duty Calculators



\*Provision of data only.

**NEW**

### Attention Pop Kit for Label Printers

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



### Unit Stand (PPSD7)



- Size: D95 x W66 x H76mm
- Weight: 25g

### DVD for Heavy Duty Calculators



- Size: 124 x 142 mm
- Weight: 50g

**NEW**

### Attention Pop Board for Colourful Calculators



- Size: L500 x W600 x H500mm

### Display Tool Kit for Practical Calculators



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

### Display Tool Kit for Scientific Calculators ES Series



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

## NEWSPAPER/MAGAZINE ADVERTISEMENT

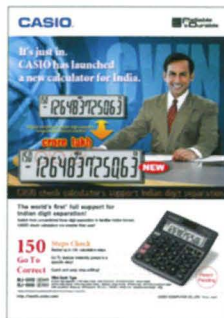
### Scientific Calculator Artwork



Brand Artwork



### Check Calculator Artwork



**NEW**

### Financial Consultant Artwork



FC-200V / 100V

### Printing Calculator Artwork



Cost, selling Price and Margin models

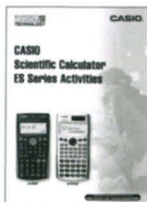


Thermal Printer models

## ROADSHOW KIT FOR SCIENTIFIC CALCULATORS



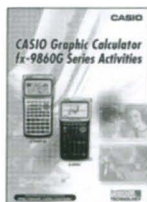
## ACTIVITIES



### Scientific Calculator

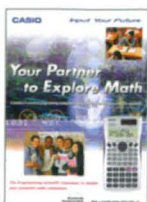
Activities for ES Series

(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

Model	Page	Model	Page
<b>A</b>		JS-40V	17
ALGEBRA FX 2.0 PLUS	2	JS-120TVS-BK	17
AX-12S	24	JS-120TVS-SR	17
AX-120S	24	JS-140TVS-BK	17
AX-120ST	24	JS-140TVS-SR	17
<b>C</b>		JW-120MS	20
ClassPad 330	1	JW-210TV-BK	15
<b>D</b>		JW-210TV-BU	15
D-20L	19	JW-210TV-OE	15
D-40L	19	JW-210TV-RD	15
D-60L	19	JW-210TV-WE	15
D-120S	19	<b>K</b>	
DF-120MS	19	KL-60	28
DF-320TM	18	KL-120	28
DJ-120D	18	KL-170 PLUS	28
DJ-220D	18	KL-820	27
DJ-240D	18	KL-7400	27
DM-1200MS	19	<b>L</b>	
DM-1200S	19	LC-160LV-BK	21
DM-1400S	19	LC-160LV-WE	21
DM-1600S	19	LC-401LV-BK	21
DR-120TM-BK	25	LC-401LV-WE	21
DR-120TM-WE	25	LC-403TV	21
DR-140TM	25	LC-1000TV	21
DR-210TM	26	<b>M</b>	
DR-240TM	26	MJ-100D	18
DR-270TM	26	MJ-120D	18
DR-T120	26	MS-6VC-BU	16
DR-T140	26	MS-6VC-GN	16
DR-T220	26	MS-6VC-RD	16
DS-1TV	17	MS-6VC-YW	16
DS-1TV-GD	17	MS-7TV	20
DS-2TV	17	MS-8S	20
DS-2TV-GD	17	MS-10S	20
DS-3V	17	MS-10VC-BE	16
DS-120TV	19	MS-10VC-BK	16
DW-120MS	19	MS-10VC-BU	16
DX-12S	23	MS-10VC-GN	16
DX-120S	23	MS-10VC-OE	16
DX-120ST	23	MS-10VC-PK	16
<b>E</b>		MS-10VC-PL	16
EA-2	11	MS-10VC-RD	16
EA-200	11	MS-10VC-WE	16
<b>F</b>		MS-10VC-YW	16
FA-CP330A/B Ver. 3.0	11	MS-20S	20
FA-124USB	11	MS-80S	20
FA-9860A/B Ver. 2.0	11	MS-100MS	20
FC EMULATOR	11	MS-120MS	20
FC-100V	10	MS-170TV	20
FC-200V	10	MS-270TV	20
FR-2650T	25	MS-310TM	18
fx-ES Emulator	11	MS-470V	20
fx-ES PLUS Emulator	11	MW-5V-BK	20
fx-50F PLUS	6	MW-5V-WE	20
fx-50FH	6	MW-8V-BK	20
fx-82ES	9	MW-8V-WE	20
fx-82ES PLUS-BK	8	MX-8S	24
fx-82ES PLUS-WE	8	MX-12S	24
fx-82MS	9	MX-120S	24
fx-85ES	9	<b>N</b>	
fx-85ES PLUS	8	NS-20T	20
fx-85MS	9	<b>O</b>	
fx-95ES PLUS	8	OH-ClassPad 330 SET	11
fx-95MS	9	OH-300ES	11
fx-100MS	9	OH-300ES PLUS	11
fx-115MS	9	OH-300MS	11
fx-350ES	8	OH-9860	11
fx-350ES PLUS	8	<b>R</b>	
fx-350MS	9	RT-7000-BK	15
fx-500ES	9	RT-7000-WE	15
fx-570ES	9	<b>S</b>	
fx-570ES PLUS	8	SL-100L	21
fx-570MS	9	SL-100VC-BU	16
fx-991ES	9	SL-100VC-OE	16
fx-991ES PLUS	8	SL-200TE	21
fx-991MS	9	SL-210TE	21
fx-992S	10	SL-220TE	21
fx-3650P	6	SL-240LB	21
fx-3950P	6	SL-300LV	21
fx-4500PA	6	SL-300TV	21
fx-5800P	6	SL-300VC-BE	16
fx-7400GII	6	SL-300VC-BK	16
fx-9750GII	5	SL-300VC-BU	16
fx-9860G Slim	6	SL-300VC-GN	16
fx-9860GII	3	SL-300VC-OE	16
fx-9860GII SD	3	SL-300VC-PK	16
<b>G</b>		SL-300VC-PL	16
GX-12S	23	SL-300VC-RD	16
GX-14S	23	SL-300VC-WE	16
GX-16S	23	SL-300VC-YW	16
GX-120S	23	SL-315TV	21
<b>H</b>		SL-320TV	21
HL-4A	22	SL-340VA	21
HL-100LB	22	SL-450L	10
HL-122TV	22	SL-760LB-BK	22
HL-815L-BK	22	SL-760LB-GDB	22
HL-815L-WE	22	SL-787TV-BK	22
HL-820LV-BK	22	SL-787TV-GD	22
HL-820LV-WE	22	SL-797TV-BK	22
HL-820VA	22	SL-797TV-GD	22
HR-8TM-BK	25	SL-1110TV-BK	15
HR-8TM-GY	25	SL-1110TV-BU	15
HR-8TM-RD	25	SL-1110TV-OE	15
HR-100TM	25	SL-1110TV-RD	15
HR-150TM	25	SL-1110TV-WE	15
HS-8LV-BK	22	SX-100	24
HS-8LV-WE	22	SX-220	24
HS-8VA	22	SX-300	24
<b>J</b>		SX-300P	24
J-120S	20	SX-320P	24
JF-120MS	20	<b>W</b>	
JJ-120D	18	WD-220T	18
JS-10TV	17	WM-200T	18
JS-20TV	17	WM-220T	18

Ⓜ Blister pack only    Ⓜ Blister pack available in addition to standard packaging.  
 Ⓜ Clamshell packaging only    \* Items without letter code are available with standard packaging only.

# 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.**  
**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.**  
**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.

**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**  
**Function command signs**  
A symbol (+, -, x, ÷) on the display indicates the type of operation you are currently performing.

## Practical Calculator/Printing Calculator

**EXTRA LARGE DISPLAY**  
**Extra Large display**  
Larger display makes more data easier to read.

**LARGE DISPLAY**  
**Large display**  
Large, easy-to-read display.

**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 Faceplate**  
**Durable metal Faceplate**  
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 Calcul.**  
**Day/Date calculation**  
Day/Date calculations allow easy input and calculation of duration or date.

**Time Calcul.**  
**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** **Function command signs**  
**Super command signs**  
Big, easy-to-read command signs show your current operation at a glance.

**Function command signs**  
**Function command signs**  
A symbol (+, -, x, ÷) on the display indicates the status of operation you are currently performing.

**Clock & Calendar**  
**Clock & Calendar**  
Printing the current time and date.

**150 STEPS CHECK**  
**150 steps check**  
Displays up to 150 previous calculation steps.

**LOCALIZED NUMBER DISPLAY**  
**Localized number display**  
Displays numbers in three digit separator formats (Standard, European, and Indian). Choice of a comma or period as the decimal point.

**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**  
**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.

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.

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