

Calculators in the Classroom

Supporting options for scientific calculators



Data Analysis System

Quick and accurate collection supports data analysis.



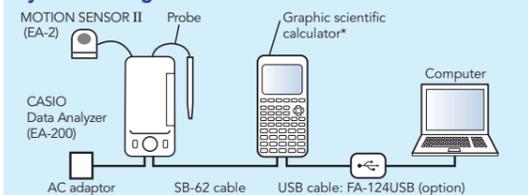
EA-200

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

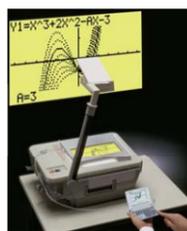
MOTION SENSOR II



EA-2
*Supplies extremely limited

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

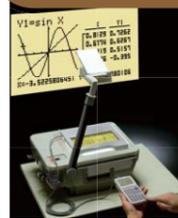
OHP Projection Unit



OH-9860 Makes lessons more interesting

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

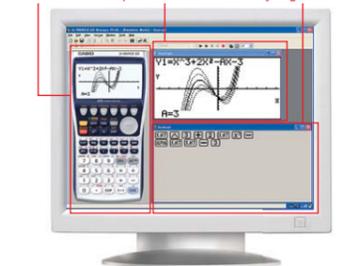
All the functions of the ClassPad 330

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-9860G II SD, fx-9860G II, fx-9750G II 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

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

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

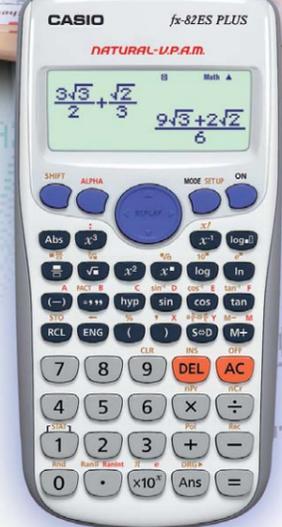
- Easy emulator image resizing
- Easy LCD window resizing
- Easy captured LCD image resizing

- 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



Support Your Classroom with Technology!

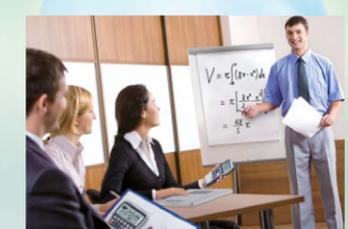
Scientific Calculators

Easy-to-use products developed for educational needs



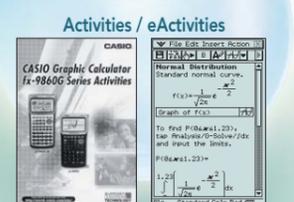
Professional Development

Seminars for teachers on scientific calculator use for more attractive lessons



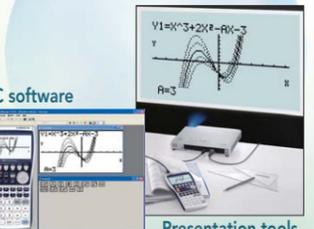
Classroom Activities

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



Optional Tools

Optional tools that make scientific calculators even more effective



CASIO Worldwide Education Website Full classroom support with technology

<http://edu.casio.com>

Graphic Models and Programmable Models

Supports advanced research and study with powerful built-in graph and program functions.

Graphic Models



User-friendly Interface

- Large display (160 × 240 dots)
- Natural input and output
- Pen touch operation
- eActivity application
- 3D Graph application
- Differential Equation application
- Advanced CAS
- Financial application
- Improved Spreadsheet application
- Geometry application
- Statistics
- Comes with snap-on hard case
- USB cable for connecting with PC
- 3-pin cable for connecting with other ClassPad unit or EA-200

ClassPad 330

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



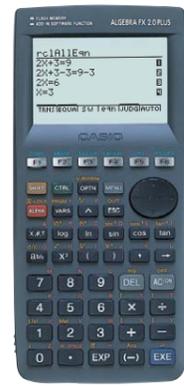
fx-9860G Slim

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



fx-9860GII SD* fx-9860GII

over 2,000 FUNCTIONS | 62,000 bytes | NATURAL V.P.A.M. | List-based STAT | Multi-replay | 21 characters by 8 lines | 10+2 DIGITS | ICON MENU | DOT MATRIX | Plastic Keys | SD CARD



ALGEBRA FX 2.0 PLUS

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



User-friendly Interface

- Backlight • Large display (128 × 64 dots)
- Natural textbook display Input/ Output (fx-9860GII SD/9860GII)
- 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
- High-resolution LCD • High-speed CPU
- Large-capacity 1.5MB Flash Memory • Spreadsheet
- eActivity • Add-in software • Ready-to-use USB functions
- Data communications
- Comes with slide-on hard case (fx-9860GII SD/9860GII)

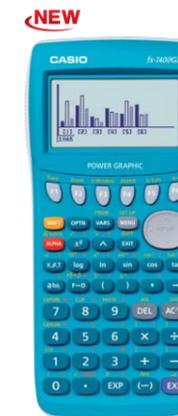
- fx-9860G Slim
- Natural textbook display (Input only)
- Help and on-screen guidance

*fx-9860GII SD model only.



fx-9750GII

over 2,800 FUNCTIONS | 62,000 bytes | List-based STAT | Multi-replay | 21 characters by 8 lines | 10+2 DIGITS | ICON MENU | DOT MATRIX | Plastic Keys



fx-7400GII

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

POWER GRAPHIC

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

POWER GRAPHIC

- High-definition display (64 × 128 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)
- Comes with slide-on hard case

Programmable Models

Natural Textbook Display and MORE POWERFUL Program Functions



SUPER-FX PLUS fx-5800P

- 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.

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

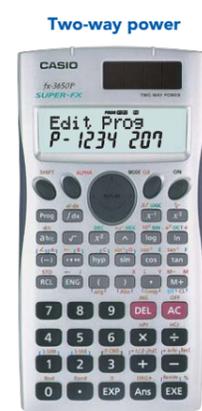
BASIC-like Program, Perfect Algebraic Method, 2-line Display, Multi-replay Function



SUPER-FX PLUS fx-50F PLUS

- 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

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



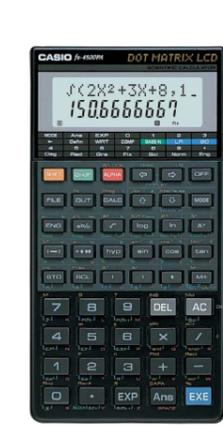
SUPER-FX fx-3650P



SUPER-FX fx-3950P

- 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

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



fx-4500PA

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

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

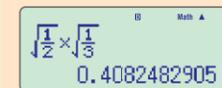
Standard Models

Simplifies high-level calculations. Essential calculators for research institutions and schools.

Natural-V.P.A.M. models

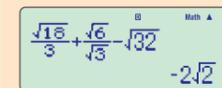
NATURAL-V.P.A.M. models

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.



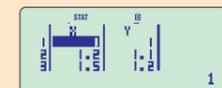
Natural input

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.

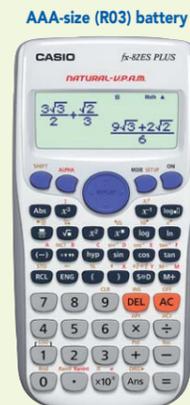


fx-82ES PLUS

- New functions:
- Prime Factorization • Random Integers

- 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

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



fx-85ES PLUS

- New functions:
- Prime Factorization • Random Integers

- 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

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

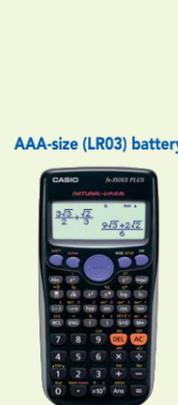


fx-350ES PLUS

- New functions:
- Prime Factorization • Random Integers

- 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

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

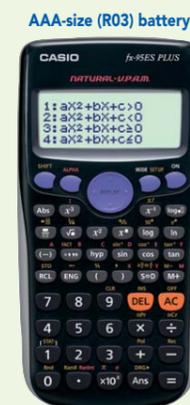


fx-95ES PLUS

- New functions:
- Prime Factorization • Ratio Calculation
- New Equation mode • Inequality
- Random Integers

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

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

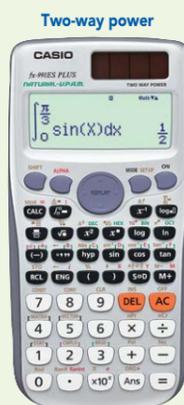


fx-991ES PLUS

- New functions:
- New Equation mode • Random Integers

- 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

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



fx-570ES PLUS

- New functions:
- New Equation mode • Random Integers

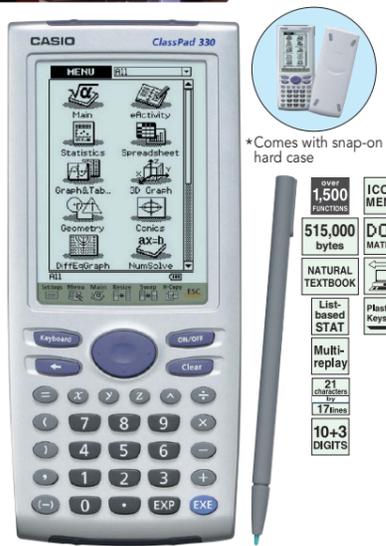
- fx-82ES PLUS/85ES PLUS/350ES PLUS functions, in addition to:
- Equation calculations • Integration/differential calculations
- Matrix calculations • Vector calculations • Complex number calculations
- CALC function • SOLVE function • Base-n calculation

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



Graphic Models with CAS Capability

Graphic Models with Flash Memory

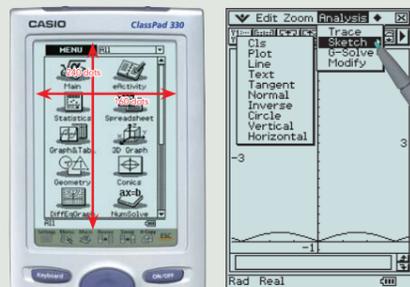


ClassPad 330

User-friendly Interface

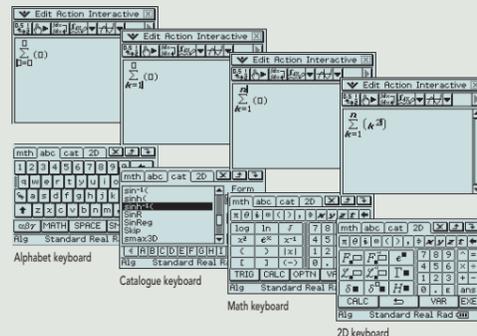
Pen Touch Operation

Intuitive stylus operation for entry of values and expressions, selection of menu commands, drag-and-drop copying of values and expressions, and much more. A big 160 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, Σ , \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.



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), δ , Γ , 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.

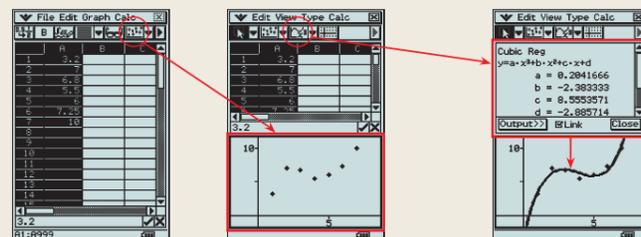
Financial Application

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

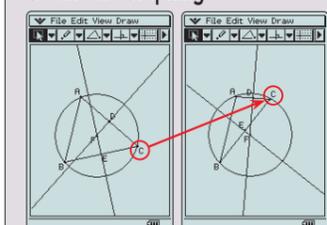
Improved Spreadsheet Application

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, Cellfit, and Histogram/Box-whisker graphing.



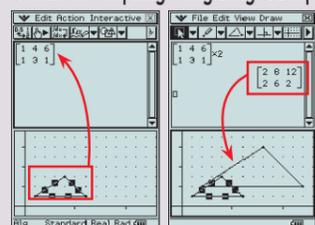
Geometry Application

Geometric Graphing



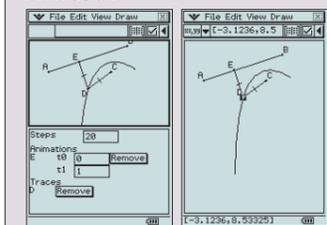
Students can learn the general theorems by drawing figures, and can confirm that a theorem still holds true even when the form of the triangle is altered.

Geometric Graphing Using Drag & Drop



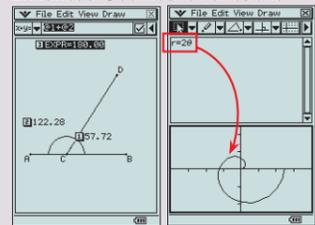
Dropping a geometric figure into the Main application window will produce the numerical data for the figure. Conversely, dropping numerical data into the Geometry window will produce the applicable figure.

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.

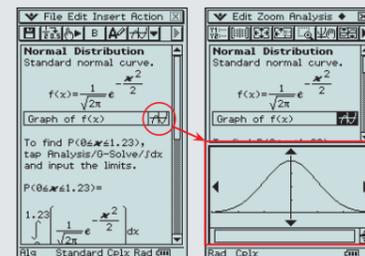
Enhanced Geometric Functions



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.

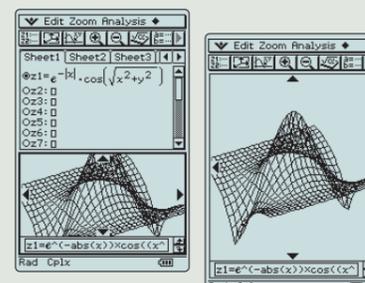
eActivity Application

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

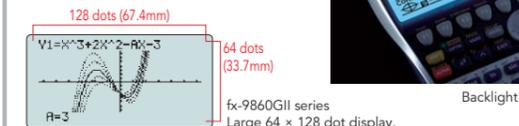
The 3D Graph Application lets you draw rectangular coordinate graphs ($z = f(x, y)$) and parametric function graphs ($xst = f(s, t)$, $yzt = f(s, t)$, $zst = f(s, t)$). You can split the display screen between a 3D Graph Editor window and 3D Graph window, or enlarge the 3D Graph window to view a larger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



Hardware Features

High-resolution LCD

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



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.

SD Memory Card Slot (SD model only)

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



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 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.



Other Features

- Probability
- List-based Statistics
- Advanced Statistics
- Inequality Graphing
- Financial Calculations

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

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



Software Features

NATURAL-V.P.A.M.

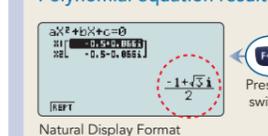
Natural textbook display!

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.

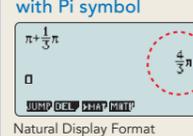


Natural Output

Polynomial equation result

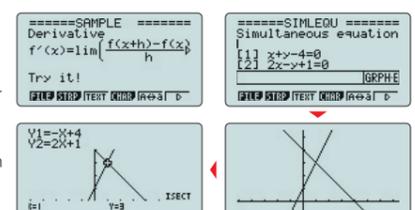


Result of expression with Pi symbol



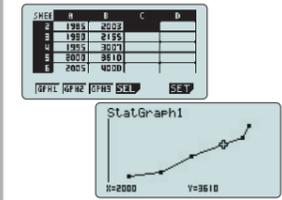
eActivity

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.

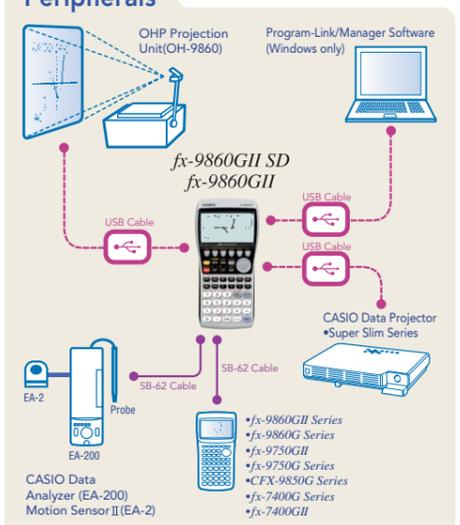


Built-in Software Spreadsheet

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



Peripherals



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.

Add-in software

Pre-installed Software ● Geometry Downloadable Software ● Physium
Add-in software can be downloaded from the CASIO website. <http://edu.casio.com/dl/>

