Supporting options in the Classroom

SUPPORT CLASSROOM Option TECHNOLOGY

Data Analysis System
Quick and accurate collection supports data analysis.

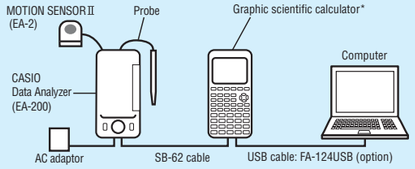
- Collect data at rates of up to 50,000 points per second for up to 120,000 points.
- Compatible with the CASIO fx-7400 series, CFX-9850 series, ALGEBRA FX 2.0 series, fx-9860G series, fx-9750 series and ClassPad series.

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

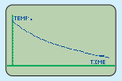
EA-200

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

System Configuration



Example of changing temperature data over time



*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-9950GB PLUS/ fx-9750G/fx-9750G PLUS/fx-9750GA PLUS/fx-7450G/fx-7400G PLUS/ RM-ALGEBRA FX 2.0/RM-ClassPad PLUS/RM-7000/RM-9000/RM-9850Ga PLUS/ OH-ClassPad 330/OH-ALGEBRA FX2.0/OH-9000/VI-9850Ga PLUS/VI-9850GB PLUS

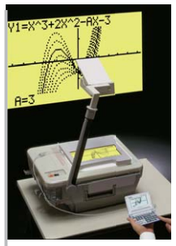
MOTION SENSOR II

EA-2

*Supplies extremely limited

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

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.

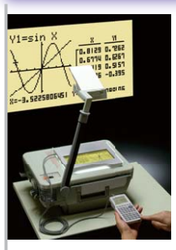
A powerful classroom presentation tool!
OHP projects display contents onto a big screen!

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.

Graphic Scientific Calculator Projection Set



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

All the functions of the ClassPad 330

OH-ClassPad 330 SET

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

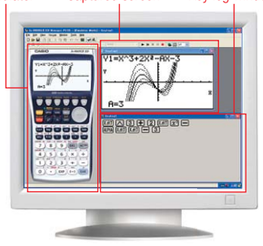
All the functions of the ALGEBRA FX 2.0 PLUS

OH-ALGEBRA FX 2.0 SET

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

Software

Simulator Captured screen Key log window



FA-9860A Ver. 2.0 • fx-Manager PLUS (Single License) NEW
FA-9860B Ver. 2.0 • fx-Manager PLUS (School License) NEW

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

ClassPad Manager for ClassPad 330 Ver. 3.0
• FA-CP330A Ver. 3.0 (Single License) • FA-CP330B Ver. 3.0 (School License)

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

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

FC EMULATOR NEW
(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, Windows® XP, Windows Vista®
** For Windows Vista, operation is supported for 32-bit versions only. 64-bit versions are not supported.*

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

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

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

System Requirements
Operating Systems: Windows® 2000, Windows® XP, Windows Vista®
** For Windows Vista, operation is supported for 32-bit versions only. 64-bit versions are not supported.*

• FA-124USB Data Communication Package NEW

Scientific Calculators Specification Table

		Graphic Models							Programmable Models		
		ClassPad 330	ALGEBRA FX 2.0 PLUS	fx-9860GII SD	fx-9860GII	fx-9860G Slim	fx-9750GII	fx-7400G PLUS	fx-5800P	fx-50F PLUS fx-50FH	fx-3650P
Specifications	Number of functions	(Over 1,500)*6	Over 1,500	(Over 2,900)*6	(Over 2,900)*6	(Over 1,000)*6	(Over 2,800)*6	406	664	406	279
	Power supply (Main)	AAA×4	AAA×4	AAA×4	AAA×4	AAA×2	AAA×4	AAA×2	AAA×1 (LR03)	Two-way power (Solar+LR44×1)	Two-way power (Solar+LR44×1)
	Power supply (Backup)	—	CR2032×1	—	—	—	—	CR2032×1	—	—	—
	Approximate battery life Main (hours)	140 (LR03)*1	140 (R03)*2/ 230 (LR03)*2	200 (LR03)*1	200 (LR03)*1	140 (LR03)*1	230 (LR03)*1	900 (R03)*2/ 1,500 (LR03)*2	1 year*3	3 years (LR44)*3	3 years (LR44)*3
	Approximate battery life Backup (years)	—	2	—	—	—	—	2	—	—	—
	Dimensions H×W×D(mm)	21×84×189.5	19.5×82×178	21.2×91.5×184	21.2×91.5×184	20.7×122×89	21.3×87.5×180.5	23×85.5×169	15.1×81.5×163	12.2×80×161	11.8×80×159
	Approximate weight (g)	280	213	225	220	200	205	185	150	105	100
	Case style	Snap-on hard	Slide-on hard	Slide-on hard	Slide-on hard	—	Slide-on hard	Snap-on hard	Integrated hard	Slide-on hard	Snap-on hard
	Dot matrix display	160×240 dots	64×128 dots	64×128 dots	64×128 dots	64×128 dots	64×128 dots	48×80 dots	31×96 dots	5×7 dots×16 digits	5×6 dots×12 digits
	Display capacity (characters)	20×17	21×8	21×8	21×8	21×8	21×8	13×6	16	16	12
	Mantissa + exponent digits	10+3	10+2	10+2	10+2	10+2	10+2	10 (9+2)	10+2	10+2	10+2
	Icon menus	●	●	●	●	●	●	●	—	—	—
	Internal operation digits	15	15	15	15	15	15	15	15	15	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	26	26 – 2398	7	7
	Onboard function manual	—	—	—	—	●	—	—	—	—	—
	Syntax help	—	—	—	—	●	—	—	—	—	—
	Auto power off	●	●	●	●	●	●	●	●	●	●
Special Features	Base-*n* calculations (Binary/Octal/Hexadecimal)	●	●	●	●	●	●	—	●	●	●
	Logical operations	●	●	●	●	●	●	—	●	●	●
	Engineering symbol calculations	—	●	●	●	●	●	—	●	—	—
	Engineering notation (ENG/ENG)	—	●	●	●	●	●	—	●	●	●
	Scientific constants	—	—	—	—	—	—	—	40	40	—
	Metric conversions	—	—	●	●	—	●	—	—	—	—
CAS	Computer Algebra System	●	●	—	—	—	—	—	—	—	—
Basic Functions	Trigonometric, inverse trigonometric (sin/cos/tan/$\sin^{-1}$/$\cos^{-1}$/$\tan^{-1}$)	●	●	●	●	●	●	●	●	●	●
	Hyperbolic, inverse hyperbolic (sinh/cosh/tanh/$\sinh^{-1}$/$\cosh^{-1}$/$\tanh^{-1}$)	●	●	●	●	●	●	—	●	●	●
	Exponential, logarithmic (log, ln, 10^x, e^x)	●	●	●	●	●	●	●	●	●	●
	Base specified logarithmic	●	—	●	●	●	●	—	●	●	—
	Power and radical root (x^y/$\sqrt[x]{\ }$)	●	●	●	●	●	●	●	●	●	●
	Fraction	●	●	●	●	●	●	●	●	●	●
	Percentage calculation (%)	●	—	—	—	—	—	—	●	●	●
	Rounding	●	●	●	●	●	●	●	●	●	●
	Simplification	—	—	●	●	—	●	●	—	—	—
	Integer division	—	—	●	●	—	●	●	—	—	—
	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)	—	● (5 unknowns)	—	—
	Polynomial equation	●	● (Degree 2–30)	● (Degree 2-6)	● (Degree 2-6)	● (Degree 2, 3)	● (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 (*n*Cr, *n*Pr)	●	●	●	●	●	●	●	●	●	●
Statistics	Random numbers	●	●	●	●	●	●	●	●	●	●
	Random integers	●	—	●	●	—	●	—	—	—	—
	List-based STAT data editor	●	●	●	●	●	●	●	●	●	●
	Standard deviation	●	●	●	●	●	●	●	●	●	●
	Regression analysis	●	●	●	●	●	●	●	●	●	●
	Linear regression	●	●	●	●	●	●	●	●	●	●
	ab Exponential regression	●	—	●	●	—	●	—	●	—	—
	Advanced statistics	●	●	●	●	●	●	—	—	—	—
	Other regressions	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Cubic, Quart, Log, Exp, Pwr, Sin, Lgst	Med, Quad, Log, Exp, Pwr	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad	Log, Exp, Pwr, Inv, Quad
Finance	Financial function	●	●	●	●	●	●	—	—	—	—
Spreadsheet	Spreadsheet	●	—	●	●	●	—	—	—	—	—
Others	eActivity	●	—	●	●	● (eActivity Guide)	—	—	—	—	—
	Data communication	●	●	●	●	●	●	●	●	—	—
	Others	Picture, Presentation, 3D graph, DiffEq Graph	Recursions	Recursions Backlight display	Recursions Backlight display	Recursions Backlight display	Recursions	—	Recursions	—	—

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