

HP 49G Graphing Calculator

Key Differences from the HP 48G Series

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Configuration

Larger Memory Capacity

- 1.5MB* of User Memory allows you to run and store more user & third party system RPL programs, games and software applications. * 512KB RAM and 1MB Flash ROM.

Flash Technology

- 2MB of Flash ROM that enables future electronic software upgrades, eliminating the need to buy a new calculator every time there are any software upgrades, enhancements or improvements.

Physical Features

Leading-Edge Design

- With smoother edges, softer curves, and a sleek, sturdy design, the HP 49G is ideal for either hand-held or desktop use.

Who says calculators have to look dull and dreary!

- Chances are, if you are a HP 49G user, you will be using it a lot! So why should you have to keep looking at something that is dull and dreary! Of course, mathematics is serious business, but it doesn't have to be boring. The HP 49G comes in an appealing, light metallic blue with a matching translucent blue slide-on cover that helps to minimize screen and keyboard damage.

Tired of intimidating and confusing keyboard clutter?

- The user-friendly HP 49G keyboard incorporates the strengths of the existing HP 48G Series RPN keyboard layout and the more familiar algebraic style keyboard layouts on the HP 38G, TI-83, and TI-89. Alphabet letters now appear clearly on the keys, thus reducing keyboard clutter. Larger keys with softer edges, and improved key spacing, minimize undesired key presses.

Crystal Clear Contrast

- More like a computer screen, the HP 49G's new higher contrast screen is easier-to-read.

Faster, Timely Unit-to-Unit Communication

- Exchange programs, data and games with other HP 49Gs and HP 48G Series models quickly, by means of a unit-to-unit link cable. No infrared, equals piece of mind for those teachers/lecturers/professors wishing to avoid untimely communication.

Graphing Features

Expand your Plotting Possibilities

- With the HP 49G, choose between the HP 48G Series Plotting 'Input Forms' or if you prefer, plot, view and edit multiple functions quickly and simply with the new 'Y=' Plot Functions screen.

Operating Features

See more on the big screen

- Whether you are working with a large expression or program, or multiple equations, expressions and sub-expressions, you can minimize the need to scroll by selecting a smaller font size. There are four font sizes (6x4, 6x6, 7x6, or 8x6) and styles to choose from.

Customize your Inputs and Outputs

- Choose from three input modes according to your preference: familiar textbook, traditional algebraic or efficient RPN, and two default-screen history display modes: textbook or algebraic. The textbook mode allows you to input and display equations and expressions as they appear in textbooks or on the blackboard.

Faster Navigation

- Navigating around the enhanced HP 49G User Interface is between 10 and 100 times faster than that of the existing HP 48G Series.

Learn from History

- Unlike the HP 48G Series stack, where only the results are displayed, the HP 49G default-screen history also displays and retains the how (e.g. equations, and expressions), so you can see where you went wrong, or how you got the result. Even after power off and on again, the history will still be there, just the way you left it.

Fast, Flexible and Intelligent Editor

- Edit expressions, text, graphs and programs quickly and easily just the way you want to. More than just a passive editor you can isolate and evaluate sub-expressions as well as cut, paste, and copy objects, just like on a computer. Unsure how to correctly enter an equation or expression? The intelligent HP 49G editor automatically inserts missing parentheses and syntax, both in real-time.

Math Features

Dynamic Algebra and Calculus

- With a built-in Computer Algebra System (CAS), the HP 49G boasts truly dynamic symbolic manipulation and solving. Working with complex equations and expressions? No problem, the HP 49G automatically prompts you to switch to complex mode.

Learn how to get the right answer

- Choose the step-by-step mode for dynamic derivation, integration and linear algebra problem solving. All steps and results are displayed in textbook mode for easy viewing and understanding. After all, in a text or exam, the answer is only part of the solution.

Statistical Features

Now you can use the data descriptions to make inferences

- The HP 49G goes one step further than the HP 48G Series by allowing you to make and measure inferences about the population of interest with hypothesis tests and confidence intervals. Sample data input, editing, plotting and viewing has never been easier with new create a table, and table setting options.

HP 48G Series and 49G Comparison Table

Features	HP 48G+	HP 48GX	HP 49G
Configuration			
Scientific Programmable Graphing Calculator	◆	◆	◆
User Memory	128KB	128KB	1.5MB
Flash ROM for future electronic software upgrades			◆
Physical Features			
Color	Emerald Green	Emerald Green	Light Metallic Blue
Carry Case	Soft, Dark Grey Pouch	Soft, Dark Grey Pouch	Slide-on Translucent Blue
High Contrast Display	❖	❖	❖
Dimensions (L x W x D)	7.1 x 3.2 x 1.15 in (18.0 x 8.1 x 2.9cm)	7.1 x 3.2 x 1.15 in (18.0 x 8.1 x 2.9cm)	7.4 x 3.5 x 1.1 in (18.7 x 8.9 x 2.8cm)
Weight (with batteries)	9 oz (264 g)	9 oz (264 g)	9 oz (264 g)
Display Size (W x H)	131 x 64 pixels	131 x 64 pixels	131 x 64 pixels
Number of Keys	49	49	51
Infrared Port for printing & unit-to-unit communication	◆	◆	
Expansion Ports for Memory and Application Software Cards		◆	
Serial (RS232) Port	Yes, 4-pin	Yes, 4-pin	Yes, 10-pin
Operating Features			
User Interface Speed			❖
Operating Modes	RPN/Textbook	RPN/Textbook	Algebraic/RPN/Textbook
Default Screen Display Modes	Algebraic only	Algebraic only	Textbook/Algebraic
Default Screen Stack / History Display	Results only	Results only	Results/Objects
Built-in Fonts	3	3	4
Downloadable Fonts			◆
Font Sizes	3	3	4
Cut / Paste / Copy Operations			◆
Manipulating & Solving Sub-expressions	◆	◆	❖
Catalogue of Functions			◆
Object Storage (Variables & Directories)	◆	◆	◆
Date & Time (including Alarm Set)	◆	◆	◆
Math Features			
Built-in, Dynamic Computer Algebra System (CAS)			◆
Mathematical Constants Library	◆	◆	◆
Factorization & Expansion	◆	◆	◆
Substitution	◆	◆	❖
Differentiation & Integration	◆	◆	❖
Differential Equations	◆	◆	❖
Solving Systems of Linear Equations	◆	◆	❖
Linear Algebra & Matrices	◆	◆	❖
Symbolic & Numeric Solve	◆	◆	❖
Step-by-step Numeric & Symbolic Solve	◆	◆	❖
Complex Arithmetic	◆	◆	❖
Exponential & Logarithmic Functions	◆	◆	◆
Taylor Polynomials	◆	◆	◆
Lists & Sequences	◆	◆	◆
Trigonometry (Trig & Hyperbolic functions, degrees, radians, gradians)	◆	◆	◆
Vector Operations (absolute magnitude, dot & cross product)	◆	◆	◆
Scientific Features			
Built-in Equation Library	◆	◆	
Physical Constants Library	◆	◆	◆
Units-of-Measure Library	◆	◆	◆
Unit Conversions	◆	◆	◆
Statistical Features			
Inferential (hypothesis tests/confidence intervals)			◆
Descriptive (lists, single variable, frequencies, regression, summary)	◆	◆	◆
Financial Features			
Time-value-of-money	◆	◆	◆
Amortization	◆	◆	◆
Customizing Features			
Additional Memory Card Options		128KB, 1MB	
Supports Third Party RPL Programs, Games & Application Software		◆	◆
Programming Languages	RPL	RPL	RPL/Assembly/HP Basic
Graphing Features			
Tables			◆
15 plot types including - Function, Parametric, Polar, Conic, Differential, Wireframe, & Statistical (Scatter, Bar & Histogram)	◆	◆	◆
2D/3D Plotting	◆	◆	◆
Function Analysis - Root, Extrema, Slope, Area, Intersection	◆	◆	◆
Tracing & Zooming	◆	◆	◆
Accessories			
Overhead Display Unit (F1212A)		◆	◆
Portable DataLab (Firmware Systems Inc.)	◆	◆	◆
PC/Mac Connectivity Kits (F1897A/F1898A)	◆	◆	◆

❖ Enhancements

Visit our Web site at www.hp.com/calculators

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