

# HP 49G

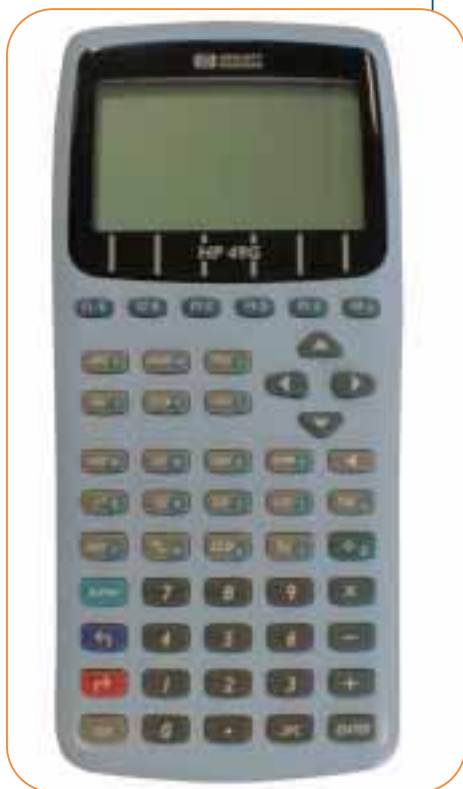


## "SCIENTIFIC PROGRAMMABLE GRAPHING CALCULATOR"

*"THE NEW GENERATION... FOR THOSE WHO WANT MORE THAN JUST THE RIGHT ANSWER!"*

HP introduces the HP 49G, the new generation of graphing programmable calculators. This leading edge technology calculator is designed for math, science and engineering students as well as for professionals who require a totally reliable tool and the best performance.

HP 49G features the most powerful Computer Algebra System available today on a calculator as well as over 1,5 Mb of memory, using flash technology. This large memory size allows the users to benefit from the biggest and most comprehensive library of third party calculator programs, games and software (just connect to our web site <http://www.hp.com/calculators> and check the section "other interesting sites").



A unique "step-by-step" solving feature enables to see and to follow dynamically each single step of a solution process. It is a great learning function, which helps student understand exactly how to get to a result. For teachers and professors this feature can be used to illustrate dynamically a section of the curriculum.

The HP 49G delivers high performance through multiple features such as a flexible and intelligent Editor, enhanced symbolic capabilities (symbolic matrices manipulation, symbolic equation solving etc.), statistical and financial features, 3D plotting etc.

### Subject Suitability

- Algebra
- Calculus
- Descriptive & Inferential Statistics
- Engineering
- Geometry
- Physics
- Pre-calculus
- Science
- Trigonometry

This new calculator offers quality hardware through a brand new industrial design and a high contrast screen for easier reading, in line with HP's quality philosophy. Smart operating features allow you to customize the interface and adapt to your own needs and habits:

Select one of the four font sizes to minimize the need for scrolling or to enlarge the size of a sub-expression, customize your inputs and outputs by choosing from three input modes (familiar textbook, traditional algebraic or efficient RPN).

**The default data in put mode is the algebraic mode.**

### In-the-box

- A HP 49G Graphing Calculator with a hard slide-on cover (F1633A)
- A unit-to-unit link cable with adapter that will allow communication with a HP 49G or any of the HP 48G series models.
- 3 x AAA Batteries
- A User Guide
- A Quick Reference Pocket Guide
- A User Registration Card

# HP 49G

## Memory Configuration

- Large Memory Capacity - 1.75MB of User Memory (512KB RAM and 1.25MB Flash ROM for data storage).
- Flash technology that enables future electronic software upgrades.

## Special Design Features

- Leading-Edge Design - Smooth edges, soft curves, and a sleek, yet sturdy design, makes the HP 49G ideal for either hand-held or desktop use.
- HP 49G comes in an appealing, light metallic blue with a matching translucent blue hard slide-on cover.

## Special Operating Features

- See more on the big screen! - Choose to input and view equations and expressions on the big screen in textbook mode, just as they appear in textbooks or on the blackboard. For more complex equations and expressions, you can minimize the need to keep scrolling by selecting a smaller font size. There are four sizes and styles to choose from.
- Three input modes: familiar textbook, traditional algebraic or efficient RPN, two default-screen history display options: textbook or algebraic.
- Fast, Flexible and Intelligent Editor - Just like you do on a computer, you can cut, paste, copy objects. More than just passive editing, you can isolate, manipulate and evaluate sub-expressions.

## Special Math Features

- Dynamic Algebra and Calculus - With an advanced built-in Computer Algebra System (CAS), the HP49G boasts truly dynamic symbolic manipulation and solving. Working with complex equations or expressions? The HP 49G will automatically prompt you to switch to complex mode.
- Interested in learning 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.
- Algebra Features include - Factorization, Expansion, Substitution, System of Linear Equations, Linear Algebra & Matrices (Gaussian-Jordan row reduction, eigenvalues & eigenvectors, diagonalization, decomposition)
- Calculus Features include - Limits, Derivation, Integration, Differential Equations, Taylor Polynomials
- Trigonometry (Trig & Hyperbolic functions, degrees, radians)
- Lists & Sequences
- Exponential & Logarithmic Functions

## Special Statistical Features

- Descriptive Statistics (lists, single variable, frequencies, regression, summary statistics) - Sample data input, editing, plotting and viewing has never been easier with new create a table, and table setting options.
- Use sample data descriptions to make inferences - make and measure inferences about the population of interest with hypothesis tests and confidence intervals.

## Special Graphing Features

- Expand your Plotting Possibilities - 15 plot types including function, parametric, polar, conic, differential, wireframe & statistical plots.
- Function Analysis - Root, Extrema, Slope, Area, Intersection
- 2D/3D Plotting with tracing and zooming

## Special Science & Engineering Features

- Library of 127 Units-of-Measure
- Unit Conversions
- Library of 40 physical constants

## Special Customization Features

- Object based programming for creating applications quickly and easily
- Supports RPL, Assembly and Basic programming languages
- Supports Most Third Party RPL Programs, Games and Application Software.

## Accessories

- HP PC/Mac Connectivity Kits (F1897A/F1898A)
- HP Leather Calculator Pouch (F1690A)
- Overhead Display Unit (HP F1212A)
- Portable DataLab (Firmware Systems Inc.)

## Physical Specifications

- Crystal Clear High Contrast 131 x 64 pixel Display
- Dimensions 18.0 x 8.1 x 2.9 cm
- Weight (with batteries): 264 g