TI-84 Plus Graphing Calculator Specifications

Hardware

- 8-line by 16-character display
- Powered by 4 AAA batteries with a lithium battery backup to protect RAM memory during main battery change
- Impact-resistant slide case
- TI Connectivity Cable included
- 480 KB ROM memory for data archive and storage of Apps
- 24KB of available RAM memory
- Available Teacher Pack (EZ-Spot) that includes:
  - 10 calculators
  - 5 USB computer cables
  - 5 unit-to-units cables
  - 1 Getting Started Guide
  - 1 Classroom poster

Built-in Functionality

- Advanced functions accessed through pull-down display menus
- Real and complex numbers calculated to 14-digit accuracy and displayed with 10 digits plus a 2-digit exponent
- Graphs 10 rectangular functions, 6 parametric expressions, 6 polar expressions and 3 recursively-defined sequences
- Up to 10 graphing functions defined, saved, graphed and analyzed at one time
- Sequence graphing mode shows time series plot, cobweb/ stair-step plot and phase plots
- User-defined list names. Lists store up to 999 elements
- 14 interactive zoom features
- Function evaluation table shows numeric evaluation of functions in table format
- Interactive analysis of function values, roots, maximums, minimums, integrals and derivatives
- 7 different graph styles for differentiating the look of each graph drawn

- Horizontal and vertical split- screen options
- Matrix operations including inverse, determinant, transpose, augment, reduced row echelon form and elementary row operations. Convert matrices to lists and vice-versa
- List-based one- and two-variable statistical analysis, including logistic, sinusoidal, median-median, linear, logarithmic, exponential, power, quadratic polynomial, cubic polynomial, and quadratic polynomial regression models
- 3 statistical plot definitions for scatter plots, xy-line plots, histograms, regular and modified box-and-whisker plots, and normal probability plots
- Advanced statistics features including 10 hypothesis testing functions, 7 confidence interval functions and one-way analysis of variance
- 15 probability distribution functions including Normal, Student-t, Chi-square, Binomial and Poisson
- Business functions including Time-Value-of-Money (TVM), cash flows, and amortization. Full screen interactive editor for solving TVM problems
- Interactive equation solver editor for solving for different variables in an equation.
- Alphabetical CATALOG of all TI calculator operations in one menu
- All TI-83 Plus graphing calculators are fully compatible with TI-84 Plus family calculators

Applications

- Included Apps – Cabri Jr™, Catalog Help, Conic Graphing, Inequality Graphing, LearningCheck™, Polynomial Root Finder and Simultaneous Equation Solver, Probability Simulation, Science Tools, StudyCards™ , Topics in Algebra 1, Transformation Graphing, Vernier EasyData™
- Apps are available from TI and other leading developers

Programming

- Supports TI Basic and ASM programming
- Programming capability with the number of programs limited only by available memory
- App SDK available

Connectivity

- Electronically upgradeable graphing calculator allows you to have the most up-to-date functionality and software applications (Apps)
- USB Cable and TI Connect™ CE software allow information to be transferred to and from a computer

Data Collection Support

- Compatible with CBL 2™ system, CBR 2™ Motion sensor, Vernier EasyLink® and Vernier EasyTemp® systems to allow collection and analysis of real-world data

Accessories

- TI-SmartView™ Emulator Software for the TI-84 Plus family software. Allow educators to project a representation of the calculator's display to the entire class. It is an ideal demonstration tool for leading classroom instruction of math and science concepts.