HP G8X92AA

HP Prime G8X92AA Graphing Calculator User Manual

Model: G8X92AA

1. INTRODUCTION

This manual provides essential instructions for the HP Prime G8X92AA Graphing Calculator. The HP Prime is an advanced graphing calculator featuring a full-color, multi-touch display, a powerful Computer Algebra System (CAS), and a versatile set of applications designed for mathematics, science, and engineering.
Key features include:

- Dedicated symbolic, graphical, and numeric view buttons for easy mode switching.
- Built-in Computer Algebra System (CAS) for advanced symbolic calculations.
- Ultra-slim design for portability.
- Rechargeable Lithium-ion battery.
- Intuitive touchscreen interface.

Figure 1: Front view of the HP Prime G8X92AA Graphing Calculator, showcasing its color display and keyboard layout.

2. INITIAL SETUP

2.1 Charging the Calculator

The HP Prime G8X92AA is equipped with a rechargeable Lithium-ion battery. Before first use, or if the battery is low, connect the calculator to a power source using the provided USB cable.

1. Locate the USB port on the calculator.
2. Connect one end of the USB cable to the calculator and the other end to a compatible USB power adapter (not always included, but a standard USB port on a computer can also be used).
3. The charging indicator will illuminate. A full charge typically takes several hours.

2.2 Powering On and Off

- To power on: Press the **On** button located at the bottom left of the keyboard.

- To power off: Press **Shift** then the **Off** button (which is the same as the **On** button).

3. OPERATING THE CALCULATOR

3.1 Navigation and Input

The HP Prime features both a physical keyboard and a touchscreen for navigation and input.

- **Touchscreen:** Use your finger to tap, swipe, and pinch-to-zoom in various applications, especially in graphing and geometry views.
- **Keyboard:** The keyboard provides dedicated buttons for numbers, operations, functions, and application access.
- **Shift Keys:** Use the **Shift** (blue) and **Alpha** (orange) keys to access secondary and tertiary functions printed on the keys.

3.2 Core Views: Symbolic, Graphical, Numeric

Easily switch between different representations of mathematical expressions using the dedicated buttons:

- **Symb**: Access the Symbolic view to define functions, equations, or expressions.
- **Plot**: View graphical representations of your defined functions. The touchscreen allows for intuitive zooming and panning.
- **Num**: Display numeric tables of values for your functions.

3.3 Computer Algebra System (CAS)

The built-in CAS allows for symbolic manipulation of expressions, including:

- Simplifying, expanding, and factoring expressions.
- Solving equations symbolically.
- Performing symbolic differentiation and integration.

Access CAS functions via the **CAS** button.

3.4 Applications

The HP Prime comes with a variety of pre-installed applications to enhance its functionality. Press the **Apps** button to access the Application Library.
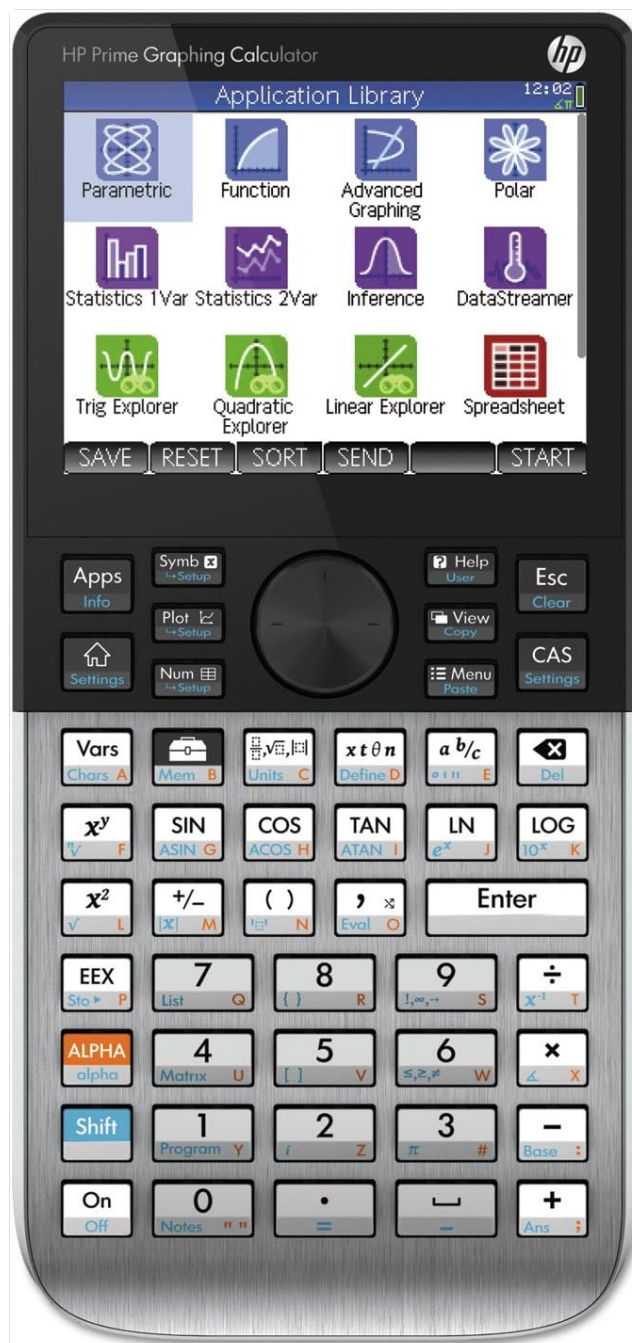
Figure 2: The Application Library screen, showing various pre-installed applications like Parametric, Function, Advanced Graphing, Statistics, and Spreadsheet.

Examples of applications include:

- **Function:** For standard function plotting and analysis.
- **Advanced Graphing:** For more complex graphical representations.
- **Statistics 1Var / 2Var:** For statistical analysis.
- **Spreadsheet:** A basic spreadsheet program for data organization and calculations.
- **Geometry:** For interactive geometric constructions.

4. MAINTENANCE AND CARE

4.1 Battery Care

To maximize battery life:

- Charge the calculator regularly, especially if it will be stored for an extended period.

- Avoid exposing the calculator to extreme temperatures.
- Use only the provided or compatible USB charging cable.

4.2 Cleaning

To clean the calculator:

- Gently wipe the screen with a soft, lint-free cloth. For stubborn smudges, slightly dampen the cloth with water.
- Clean the casing and keyboard with a soft, dry cloth.
- Avoid using harsh chemicals or abrasive materials, as these can damage the screen or finish.

5. TROUBLESHOOTING

5.1 Calculator Not Turning On

- Ensure the battery is charged. Connect the calculator to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
- Perform a soft reset by pressing the **Reset** button (usually a small pinhole on the back, requiring a paperclip).

5.2 Screen Not Responding to Touch

- Ensure the screen is clean and free of debris.
- Restart the calculator.
- If the issue persists, consider updating the calculator's operating system (OS) via the HP support website.

5.3 Unexpected Behavior or Errors

- Check your input for syntax errors.
- Consult the built-in help feature on the calculator (press the **Help** button).
- Refer to the comprehensive user guide available on the official HP support website for detailed error messages and solutions.

6. SPECIFICATIONS

The following are key technical specifications for the HP Prime G8X92AA Graphing Calculator:

Feature	Detail
Brand	HP
Series	HP Prime Graphing Calculator
Model Number	G8X92AA#B1K
Product Dimensions (LxWxH)	3.38 x 7.3 x 0.55 inches
Item Weight	1.1 pounds
Standing Screen Display Size	85 Millimeters
Color	Black/Grey
Power Source	Battery Powered (Rechargeable Lithium-ion)

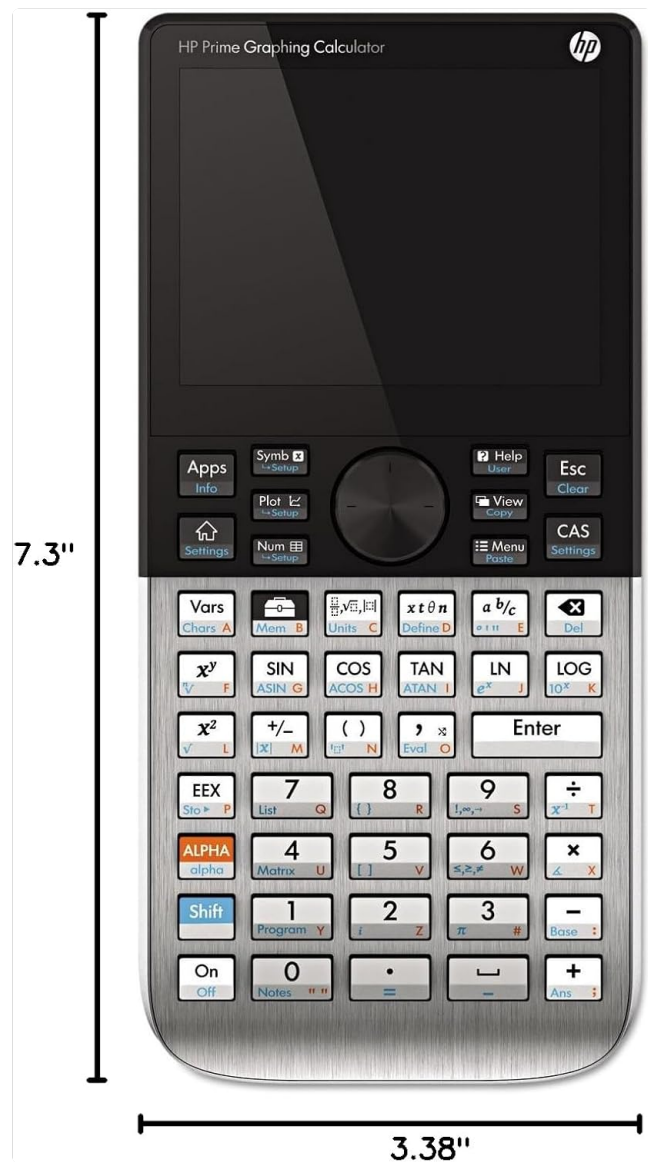| Feature	Detail
RAM	8 GB
Computer Memory Type	DDR3 SDRAM
Number of Processors	1
Date First Available	October 26, 2014

Figure 3: HP Prime G8X92AA Graphing Calculator illustrating its physical dimensions.

7. WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please visit the official HP support website. You can find drivers, software updates, and additional documentation there.

HP Official Support: www.hp.com/support

Keep your purchase receipt and product serial number handy when contacting support.