Casio FX-CG100

Casio FX-CG100 Scientific Graphic Calculator User Manual

Model: FX-CG100

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Casio FX-CG100 Scientific Graphic Calculator. Please read this manual thoroughly before using the calculator and keep it for future reference. The Casio FX-CG100 is designed for advanced mathematical and scientific calculations, featuring a high-resolution color display and extensive graphing capabilities.
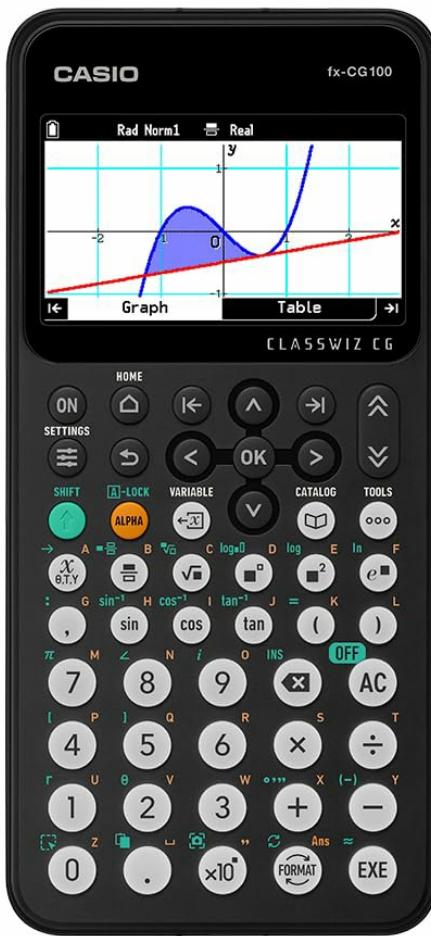
Figure 1: Front view of the Casio FX-CG100 Scientific Graphic Calculator, displaying its color screen and key layout.

Setup

1. Battery Installation

The Casio FX-CG100 requires four AAA batteries for operation. Ensure the calculator is turned off before installing or replacing batteries.

1. Locate the battery compartment cover on the back of the calculator.
2. Slide the cover off in the direction indicated by the arrow.
3. Insert four new AAA batteries, ensuring correct polarity (+/-) as marked inside the compartment.
4. Replace the battery compartment cover until it clicks securely into place.

Figure 2: Back view of the calculator, indicating the battery compartment for AAA batteries.

2. Initial Power On

After installing the batteries, press the **[ON]** button to turn on the calculator. The initial setup screen may appear, prompting you to select language and contrast settings. Follow the on-screen instructions.

OPERATING INSTRUCTIONS

The FX-CG100 features an intuitive interface with a high-resolution color display. Navigation is primarily done using the directional keys and the **[EXE]** button for confirmation.

Basic Arithmetic Operations

- Enter numbers using the numeric keypad.
- Use **[+]**, **[-]**, **[×]**, **[÷]** for addition, subtraction, multiplication, and division.
- Press **[EXE]** to execute the calculation and display the result.

High-Resolution Color Display

The calculator's color display enhances visibility for complex graphs and data. The "Natural Textbook Display" feature presents mathematical expressions and results in a format similar to textbooks, improving comprehension.

Advanced Graphing Functions

Access graphing functions from the main menu. The calculator supports various graphing types:

- **2D and 3D Graphing:** Plot functions in two or three dimensions.
- **Dynamic Graphing:** Observe how graphs change with varying parameters.
- **Inequality Graphing:** Visualize solutions to inequalities.
- **Conic Sections:** Graph circles, ellipses, parabolas, and hyperbolas.
- Use the **[SHIFT]** key in combination with other keys to access secondary functions printed above the keys.

Intuitive Icon-Based Menu

The main menu is icon-based, allowing for quick access to different modes such as Run-Matrix, Statistics, eActivity, Graph, Table, Equation, Program, and more. Use the directional keys to navigate between icons and **[EXE]** to select.

Built-In Applications & Add-ins

The calculator comes pre-loaded with applications to support various academic needs:

- **Statistics:** Perform statistical calculations, regressions, and plot statistical graphs.
- **Geometry:** Explore geometric concepts.
- **Spreadsheets:** Utilize basic spreadsheet functionalities.
- **Picture Plot:** Analyze images by plotting points and functions over them.

MAINTENANCE

Cleaning

To clean the calculator, wipe it with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing or screen.

Battery Replacement

Replace batteries when the display becomes dim or the calculator operates erratically. Refer to the "Battery Installation" section for detailed steps. Always replace all four AAA batteries at the same time with new ones.

Storage

When storing the calculator for extended periods, remove the batteries to prevent leakage and potential damage. Store in a cool, dry place away from direct sunlight and extreme temperatures.
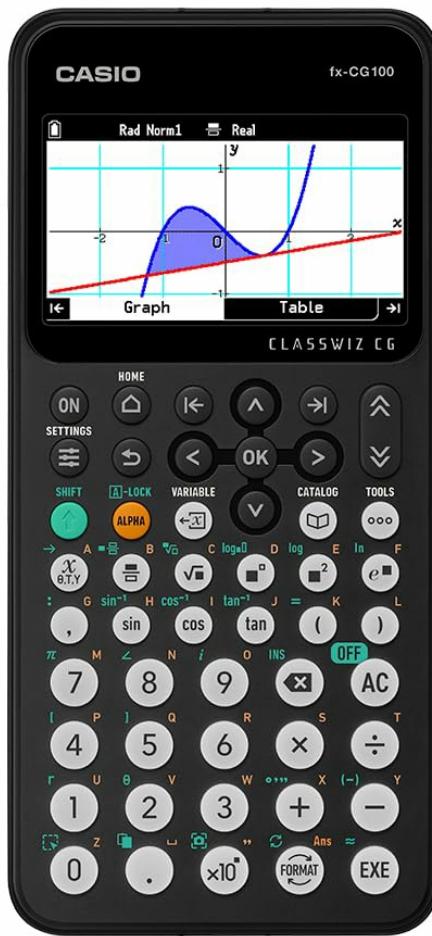
Figure 3: The Casio FX-CG100 calculator with its protective slide cover, recommended for storage and transport.

TROUBLESHOOTING

Problem	Solution
Calculator does not turn on.	Check battery installation and polarity. Replace with new AAA batteries.
Display is dim or unclear.	Adjust screen contrast in the system settings. Replace batteries if the issue persists.
Calculator freezes or behaves erratically.	Press the **[RESET]** button (usually a small button on the back, requiring a thin object like a paperclip). Note that this may clear memory.
Incorrect calculation results.	Verify input values and function settings (e.g., angle mode: degrees/radians). Perform a reset if necessary.

SPECIFICATIONS

- **Brand:** Casio

- **Model:** FX-CG100
- **Model Number:** C94
- **Calculator Type:** Graphing
- **Power Source:** 4 AAA batteries (included)
- **Material:** Plastic
- **Color:** Black
- **Item Weight:** 225 g
- **Item Dimensions (LxWxH):** 18.7 x 8.8 x 0.1 Centimeters
- **Country of Origin:** Thailand
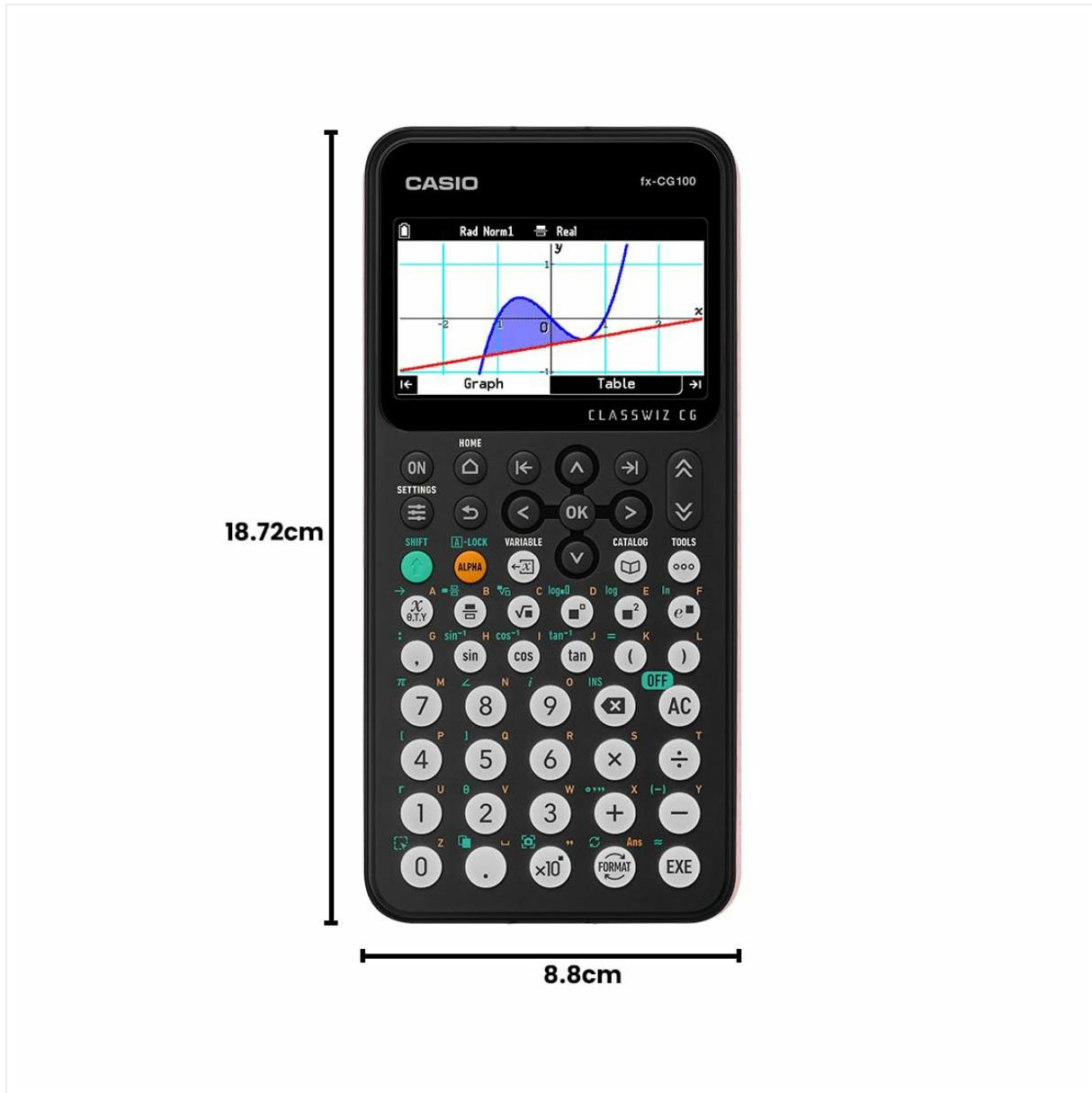
Figure 4: Dimensions of the Casio FX-CG100 Scientific Graphic Calculator.

WARRANTY AND SUPPORT
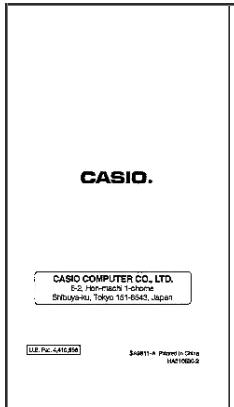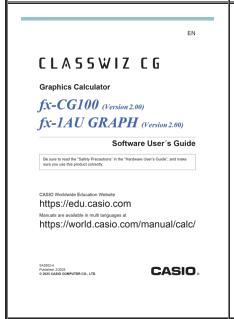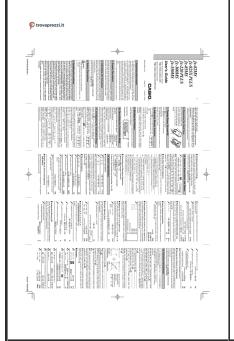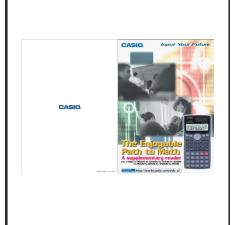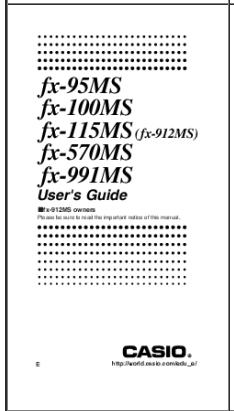
For warranty information, technical support, or service inquiries, please contact Casio customer service. Refer to the official Casio website or your purchase documentation for the most current contact details.

Manufacturer: CASIO, Casio India Co Pvt Ltd
Address: A-41, 1st Floor, MCIE, Mathura Road, New Delhi-110044
You may also visit the official Casio Store on Amazon for additional product information and support resources.

Related Documents - FX-CG100

CASIO. CASIO COMPUTER CO., LTD. 6-2, Hon-machi 1-chome Shibuya-ku, Tokyo 151-8543, Japan U.E. Pat. 4,410,956	[Casio fx-82TL, fx-83WA, fx-85W, fx-85WA, fx-270W PLUS, fx-300W, fx-350TL, fx-911W User's Guide](#) Comprehensive user's guide for Casio fx-82TL, fx-83WA, fx-85W, fx-85WA, fx-270W PLUS, fx-300W, fx-350TL, and fx-911W calculators, covering features, operations, safety, and specifications.
CLASSWIZ CG Graphics Calculator fx-CG100 (Version 2.00) fx-1AU GRAPH (Version 2.00) Software User's Guide CASIO Worldwide Education Website https://edu.casio.com Manuals are available in multi languages at https://world.casio.com/manual/calc/	[CASIO fx-CG100 / fx-1AU GRAPH Software User's Guide](#) Comprehensive software user's guide for the CASIO fx-CG100 and fx-1AU GRAPH graphics calculators, covering basic operations, app usage, and advanced features.
	[Casio fx-82MS Series User's Guide](#) Comprehensive user's guide for Casio fx-82MS, fx-82SX PLUS, fx-85MS, fx-220 PLUS, fx-300MS, and fx-350MS calculators, covering basic and advanced functions, statistical calculations, error handling, and specifications.
	[The Enjoyable Path to Math: CASIO Scientific Calculator Problem Solver](#) Learn to solve a wide range of middle and high school math problems using CASIO Scientific Calculators. This supplementary reader provides step-by-step guidance for models like fx-991MS, fx-570MS, fx-115MS, fx-100MS, fx-95MS, fx-82MS, fx-350MS, and fx-85MS, making complex calculations accessible and math more enjoyable.
fx-95MS fx-100MS fx-115MS (fx-912MS) fx-570MS fx-991MS User's Guide CASIO. http://world.casio.com/edu_e/	[Casio fx-95MS, fx-100MS, fx-115MS, fx-570MS, fx-991MS User's Guide](#) This user's guide provides comprehensive instructions for operating the Casio fx-95MS, fx-100MS, fx-115MS, fx-570MS, and fx-991MS calculators. It covers basic and scientific calculations, memory functions, statistical analysis, equation solving, and technical specifications.

fx-82MS
fx-83MS
fx-85MS
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fx-350MS

User's Guide

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http://world.casio.com/edu/

CASIO fx-82MS/fx-83MS/fx-85MS/fx-270MS/fx-300MS/fx-350MS User's Guide

Comprehensive user's guide for CASIO fx-82MS, fx-83MS, fx-85MS, fx-270MS, fx-300MS, and fx-350MS scientific calculators, covering features, operations, and specifications.