

Casio FX-9860GIII

CASIO FX-9860GIII Advanced Graphic Calculator User Manual

Model: FX-9860GIII

INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your CASIO FX-9860GIII Advanced Graphic Calculator. The FX-9860GIII is designed for advanced studies, offering powerful graphing capabilities, Python programming support, and a user-friendly interface. Please read this manual thoroughly to ensure optimal performance and longevity of your device.

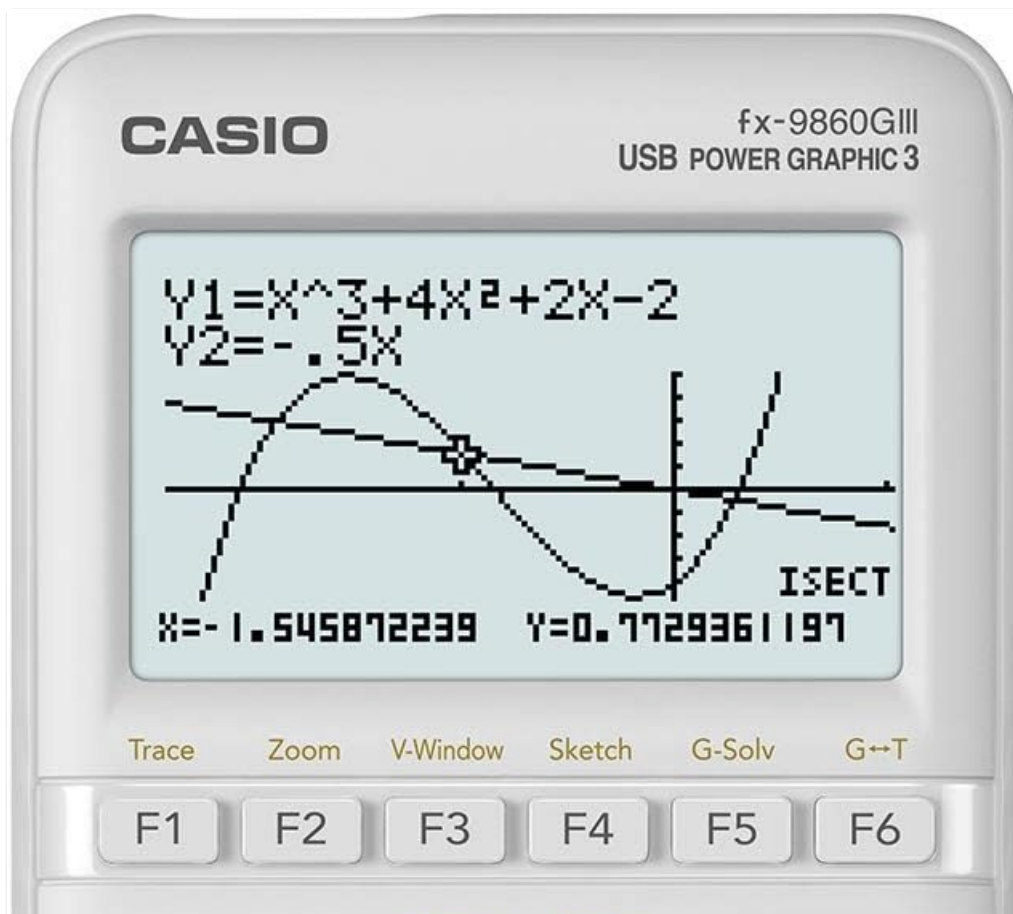




Image: The Casio FX-9860GIII calculator, showcasing its display with a plotted graph and the full keypad layout. The calculator is white with a dark grey keypad.

SETUP

1. Battery Installation

The CASIO FX-9860GIII requires four (4) AAA alkaline 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, sliding it until it clicks into place.

Note: Do not mix old and new batteries, or different types of batteries. Remove batteries if the calculator will not be used for an extended period.

2. Initial Power On and Display Adjustment

Press the **AC/ON** button to turn on the calculator. If the display is too dim or too bright, adjust the contrast:

- Press **SHIFT** then **MENU** (SETUP).
- Navigate to the Contrast setting using the arrow keys.
- Adjust the contrast using the left and right arrow keys.
- Press **EXIT** to save and exit.

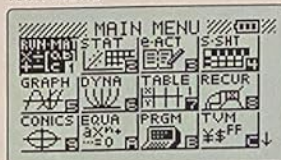
3. USB Connectivity

The calculator supports USB connectivity for data transfer to and from a computer. A USB cable is included with the product.

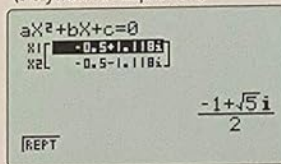
- Connect one end of the USB cable to the calculator's USB port.
- Connect the other end to a USB port on your computer.
- Follow the on-screen prompts on the calculator and computer to establish a connection and transfer data.

Satisfies JCO (Joint Council for Qualifications) regulations for examinations.
Permitted for use in AQA/CCEA/City & Guilds/Edexcel/OCR/SQA/WJEC exams.
Permitted for use in IB (International Baccalaureate) Diploma examinations
(Standard and Higher levels).

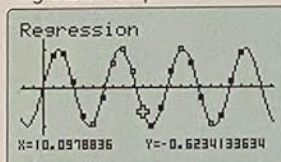
Icon Menu



Natural Output (Polynomial Equation)



Regression Graph

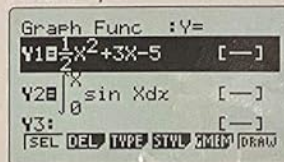


Python

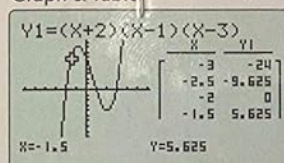
```

==PYTHAGOR 001/005 →
def pythagore(a,b,ans)
if a**2+b**2==ans**2:
print("Triangle r")
else:
print("Triangle n")
    
```

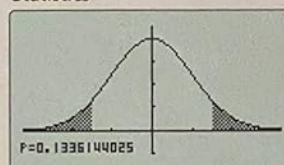
Natural Input



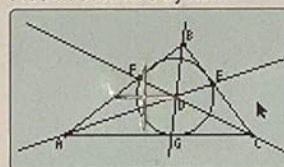
Graph & Table



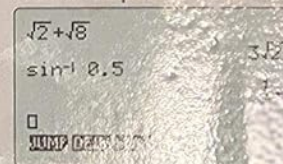
Statistics



Add-in Software System



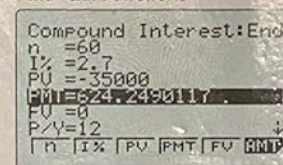
Natural Output



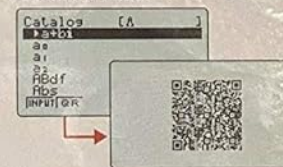
Conics



Financial Functions



Online Manual



Easy access to online manual on your smartphone or tablet.

Included accessories

- Quick Start Guide
- Protective Hard Case
- USB Cable
- Unit-to-Unit Cable
- Four AAA alkaline batteries (non-rechargeable)

CASIO Worldwide Education Web

<https://edu.casio.com>



CASIO COMPUTER CO., LTD.
MADE IN THAILAND

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Python is a registered trademark of the PSF (Python Software Foundation).
Python logo is a trademark of the PSF.

Image: The Casio FX-9860GIII calculator positioned on a desk alongside a spiral notebook, pencil, and ruler, illustrating a typical study environment.

1. Basic Operations and Keypad Layout

The calculator features an intuitive keypad. Familiarize yourself with the main sections:

- **Function Keys (F1-F6):** Context-sensitive keys whose functions change based on the current mode or screen.
- **Navigation Keys:** Arrow keys for moving the cursor and selecting options.
- **Numeric Keypad:** Standard numbers and basic arithmetic operations.
- **Special Function Keys:** Keys like **SHIFT**, **ALPHA**, **OPTN**, **VARS**, **MENU**, **EXIT** for accessing various modes and functions.

To access secondary functions printed above keys, press **SHIFT** followed by the desired key. For alpha characters, press **ALPHA** then the key.

2. Graphing Functions

The FX-9860GIII excels in graphing. To plot a function:

1. From the Main Menu, select the **GRAPH** icon.
2. Enter your function (e.g., $Y1=X^3+4X^2+2X-2$).
3. Press **EXE** to register the function.
4. Press **F6** (DRAW) to display the graph.

Use **F1** (Trace), **F2** (Zoom), **F3** (V-Window), **F4** (Sketch), **F5** (G-Solv) for graph analysis and manipulation.

3. Python Programming

The calculator supports Python programming. To access the Python editor:

1. From the Main Menu, select the **PYTHON** icon.
2. You can create new scripts or edit existing ones.
3. Use the on-screen keyboard and function keys to write and execute Python code.

Refer to the detailed Python programming guide available on the Casio education website for advanced usage.

4. Other Key Features

- **Natural-V.P.A.M.:** Displays mathematical expressions and results in a natural textbook format.
- **Icon-Menu:** Provides easy access to different modes and applications via a graphical interface.
- **Spreadsheet:** Perform calculations and data analysis in a spreadsheet environment.
- **e-Activity:** Create and share interactive learning materials.
- **Geometry:** Explore geometric concepts and constructions.
- **Dynamic Graphs:** Observe how changes in parameters affect graphs in real-time.
- **Statistics:** Conduct statistical calculations and generate various statistical graphs.
- **Financial:** Access functions for financial calculations such as compound interest.

UK's No.1
Calculator Brand

CASIO®

fx-
9860GIII

64 KB
RAM

3 MB
Flash Memory

High
Contrast
Display

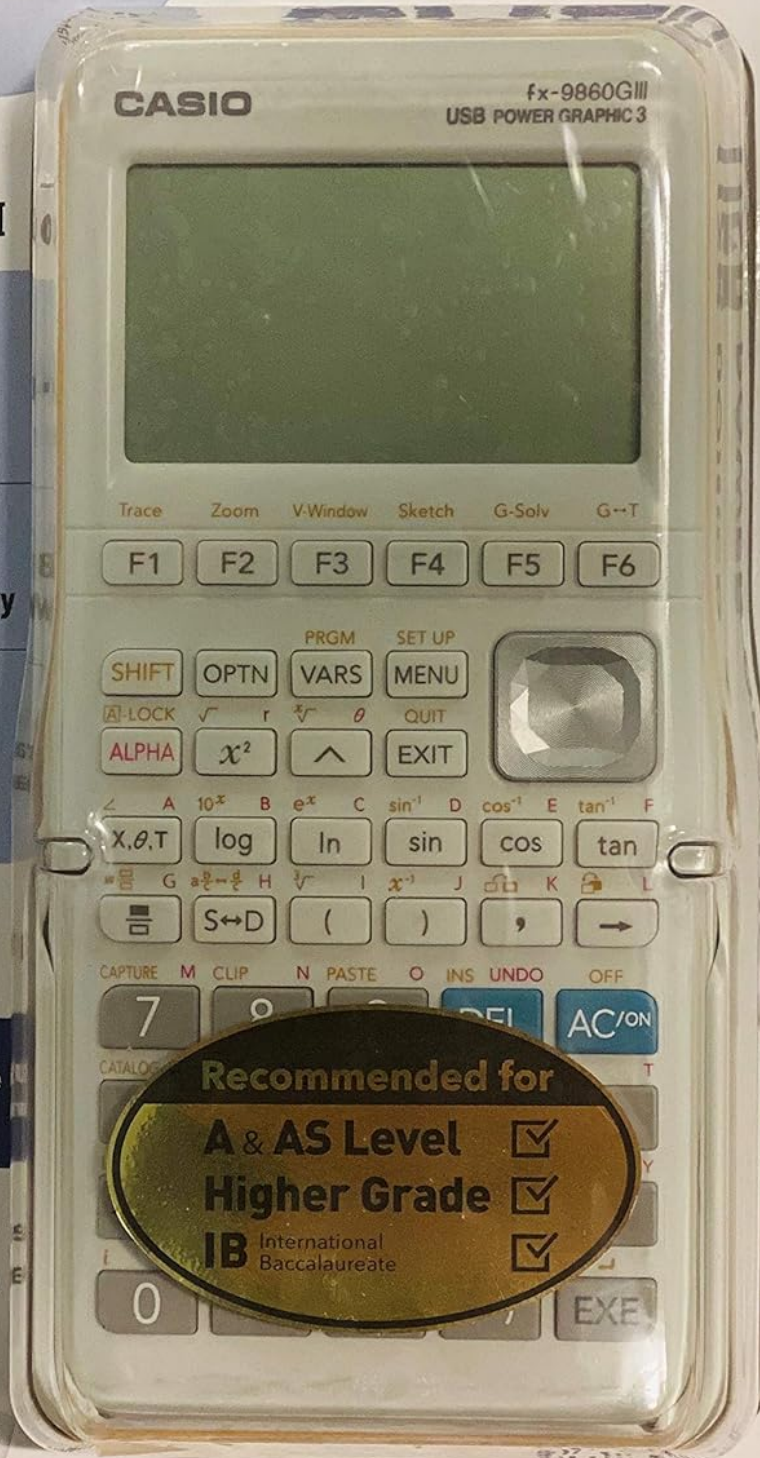
python™

USB cable
included

3 year
Guarantee



Protective
Hard Case



USB POWER GRAPHIC 3

All UK Exam Approved

Image: The reverse side of the Casio FX-9860GIII packaging, detailing various features including the Icon Menu, Natural Output, Graph & Table, Regression Graph, Statistics, Financial Functions, Python, and Add-in Software System.

MAINTENANCE

1. Cleaning

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

2. Battery Replacement

When the display becomes dim or operations become erratic, it is time to replace the batteries. Follow the battery installation steps outlined in the "Setup" section. Always replace all four AAA batteries at the same time.

3. Storage

Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.

TROUBLESHOOTING

1. Calculator Does Not Turn On

- Check if the batteries are correctly installed with the proper polarity.
- Replace with new AAA batteries.
- Ensure the battery compartment cover is securely closed.

2. Display is Blank or Faint

- Adjust the display contrast as described in the "Setup" section.
- Replace the batteries if they are low.

3. Calculator Freezes or Behaves Erratically

- Press the **RESET** button located on the back of the calculator (requires a thin, pointed object like a paperclip). Note that resetting will clear all memory.
- If the issue persists, replace the batteries.

SPECIFICATIONS

Feature	Specification
Brand	Casio
Model Name	FX-9860GIII
Calculator Type	Engineering/Scientific, Financial, Graphing
Display Type	Large 64 x 128 pixel monochrome LCD
Power Source	4 AAA batteries (required)
Item Weight	190 Grams
Enclosure Material	Plastic

Feature	Specification
Flash ROM	3MB
Connectivity	USB (cable included)
GTIN	04549526609589

WARRANTY AND SUPPORT

1. Warranty Information

The CASIO FX-9860GIII Advanced Graphic Calculator comes with a 3-year guarantee from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

2. Customer Support

For further assistance, detailed manuals, software updates, or technical support, please visit the official Casio Education website:

<https://edu.casio.com>



Image: The Casio FX-9860GIII calculator sealed in its retail packaging, displaying product features and certifications.

