

[Manuals.plus](#) /
› [CATIGA](#) /
› CATIGA Scientific Calculator CS-229 User Manual

CATIGA CS-229

CATIGA Scientific Calculator CS-229 User Manual

Model: CS-229 | Brand: CATIGA

INTRODUCTION

This manual provides comprehensive instructions for the CATIGA Scientific Calculator CS-229. Designed for students and professionals, this calculator features graphic functions, multiple operating modes, and over 360 functions to support a wide range of mathematical and scientific calculations, from basic arithmetic to advanced calculus and statistics.

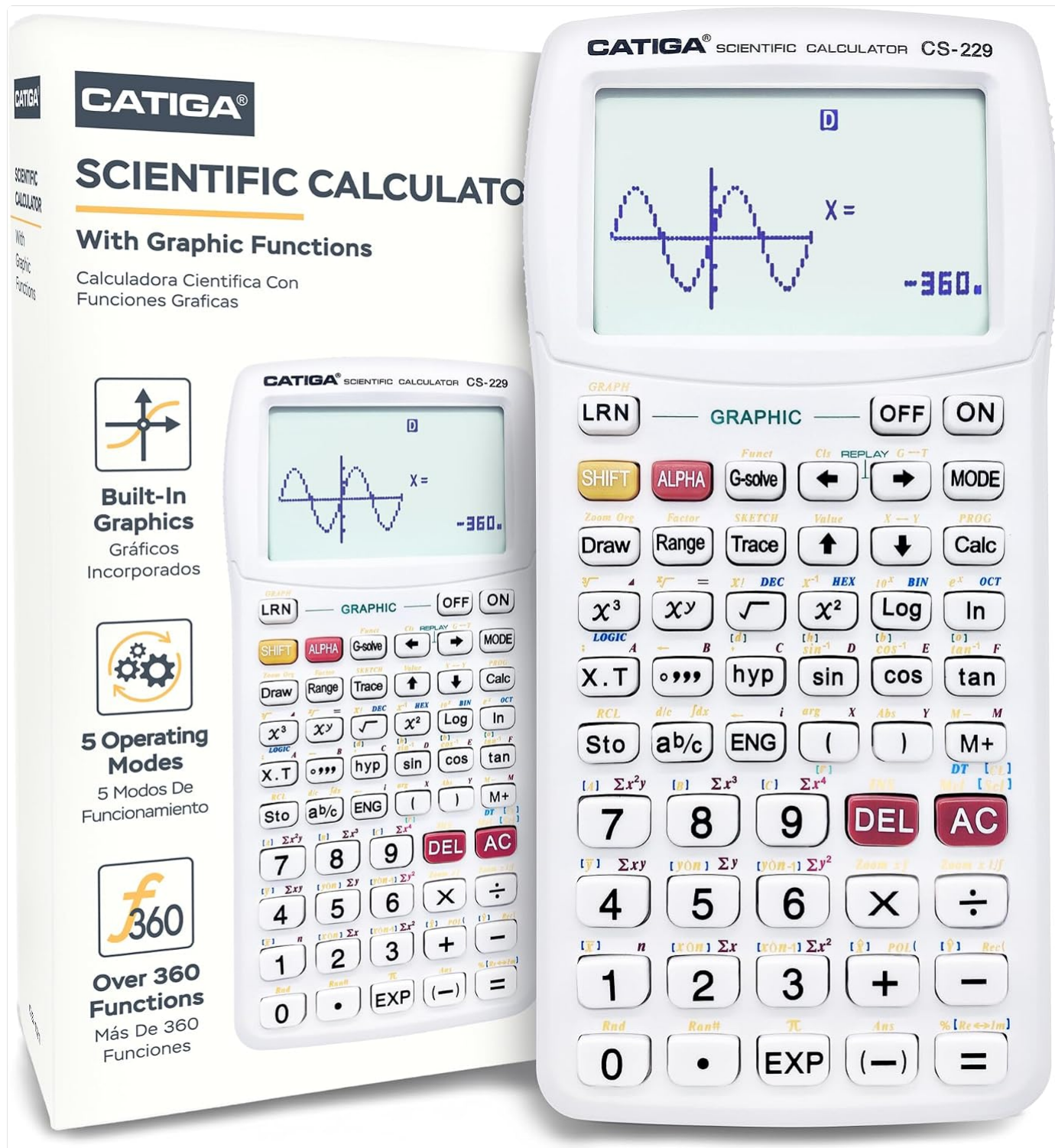


Image: The CATIGA Scientific Calculator CS-229, showcasing its graphic display and the product packaging. This calculator is designed for a wide range of mathematical and scientific applications.

SETUP

Battery Installation

The CATIGA CS-229 calculator requires one LR44 battery, which is included. To install or replace the battery:

1. Locate the battery compartment on the back of the calculator.
2. Carefully open the battery cover.
3. Insert the LR44 battery, ensuring the correct polarity (+/-) as indicated inside the compartment.

4. Close the battery cover securely.

Initial Power On and Reset

After installing the battery, press the **ON** button to power on the calculator. If the calculator does not turn on or behaves unexpectedly, locate the small reset button on the back of the unit. Use a thin, pointed object (like a paperclip) to gently press the reset button. This will restore the calculator to its default settings.



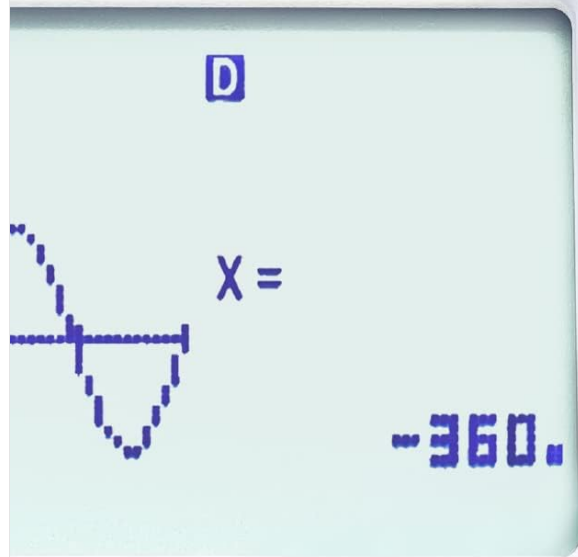
Image: The CATIGA Scientific Calculator CS-229 shown with its protective sliding cover, which helps safeguard the calculator when not in use.

OPERATING MODES

The CATIGA CS-229 offers three primary operating modes to suit various calculation needs. Use the **MODE** button to cycle through these options.

- **Angle Measurement Mode:** This mode allows you to perform calculations using different units for angles.
 - Degrees
 - Radians
 - Grads
- **Calculation Mode:** This mode provides various computational functionalities.
 - Computation (general calculations)
 - Complex (complex number calculations)
 - Standard Deviation (statistical analysis)
 - Regression (statistical analysis)
 - Base-n (calculations in different number bases)
- **Display Mode:** This mode controls how results are presented on the screen.
 - Normal (standard display)
 - Fixed Decimals (set number of decimal places)
 - Significant Digits (set number of significant figures)

SCIENTIFIC CALCULATOR CS-229



GRAPHIC

OFF

ON

Func

Cls

REPLAY

G → T

G-solve

←

→

MODE

SKETCH

Value

X → Y

PROC

Trace

↑

↓

Calc

X!

DEC

X⁻¹

HEX

10^x

BIN

e^x

OCT

3 OPERATING MODES

ANGULAR MEASUREMENT

- Degrees
- Radians
- Grades

CALCULATION

- Computation
- Complex
- Standard Deviation
- Regression
- Base-n

DISPLAY

- Normal
- Fixed Decimals
- Significant Digits

Image: A visual representation of the calculator's display highlighting the three operating modes: Angular Measurement, Calculation, and Display, accessible via the MODE button.

GRAPHIC FUNCTIONS

The CS-229 is equipped with powerful graphic capabilities, allowing you to visualize mathematical functions and data. The large display screen (2 inches) is ideal for viewing diagrams and equations simultaneously.

- **Built-In Graphs:** Access a variety of pre-programmed graph types.
- **Graph Composition:** Combine multiple functions on a single graph.
- **Trace and Plot:** Explore points on a graph and plot specific values.
- **Line Scroll, Zoom-In/Out:** Navigate and adjust the view of your graphs for detailed analysis.
- **Statistical Graph:** Visualize statistical data, such as linear regression.

Use the **GRAPHIC** section keys, including **Draw**, **Range**, and **Trace**, to manipulate and analyze your graphs.

VERSATILE FUNCTION CAPABILITIES

UTILITIES

- Equation Solver
- 9 Variable Memories

BASIC FUNCTIONS

- Trigonometry Functions
- Hyperbolic and Inverse
- Hyperbolic Functions
- Exponential / Logarithmic
- Power Functions
- Fraction Calculations
- Sexagesimal Functions

ALGEBRA

- Calculation with $\sqrt{}$ / π Symbol
- Including Simplifying Radicals
- Simultaneous Equations
- Polynomial Equations
- Table Function
- Complex Number Calculations

GEOMETRY

- Coordinate Conversion

PROBABILITY

- Permutation and Combination

STATISTICS

- Statistical Calculations (Standard Deviation)
- Statistical Calculations (Regression Analysis)

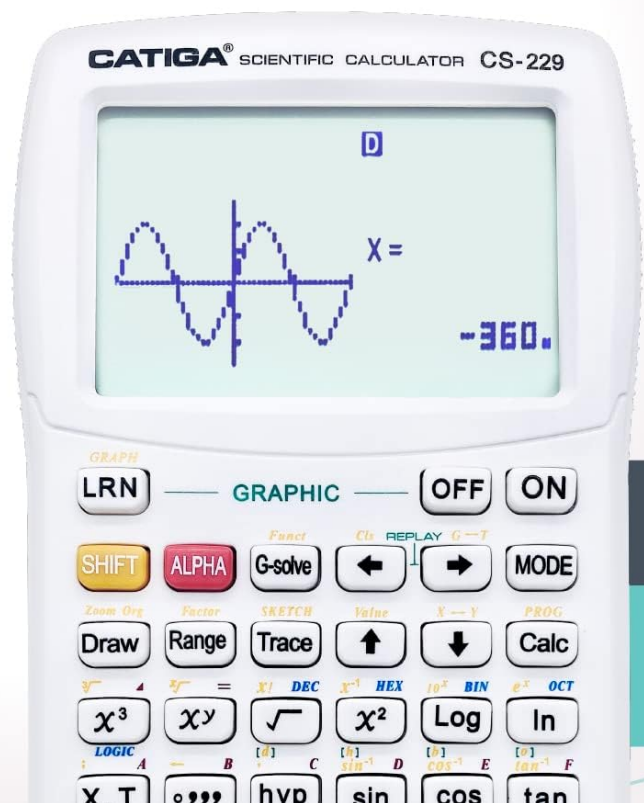


Image: A visual representation of the calculator's display highlighting the three operating modes: Angular Measurement, Calculation, and Display, accessible via the MODE button.

KEY FUNCTIONS (OVER 360 FUNCTIONS)

The CATIGA CS-229 is equipped with over 360 functions, making it suitable for a wide array of courses including Pre-Algebra, Algebra I & II, Geometry, Trigonometry, Calculus, AP Calculus, AP Statistics, Biology, Chemistry, Physics, Finance, and Business.

Common Functions Include:

- **Fractions:** Display and calculate fractions, improper fractions, and their decimal equivalents.
- **Statistics:** Perform calculations for standard deviation, linear regression, and other statistical analyses.

- **Complex Numbers:** Handle calculations involving complex numbers.
- **Algebra:** Solve equations, simplify radicals, and work with polynomial equations.
- **Trigonometry:** Functions for sine, cosine, tangent, and their inverses.
- **Logarithmic & Exponential:** Logarithms, natural logarithms, and exponential functions.
- **Utilities:** Equation solver and 9 variable memories for storing values.
- **Probability:** Permutation and combination calculations.

Many functions are accessed using the **SHIFT** and **ALPHA** keys, which activate the secondary functions printed above the primary keys.

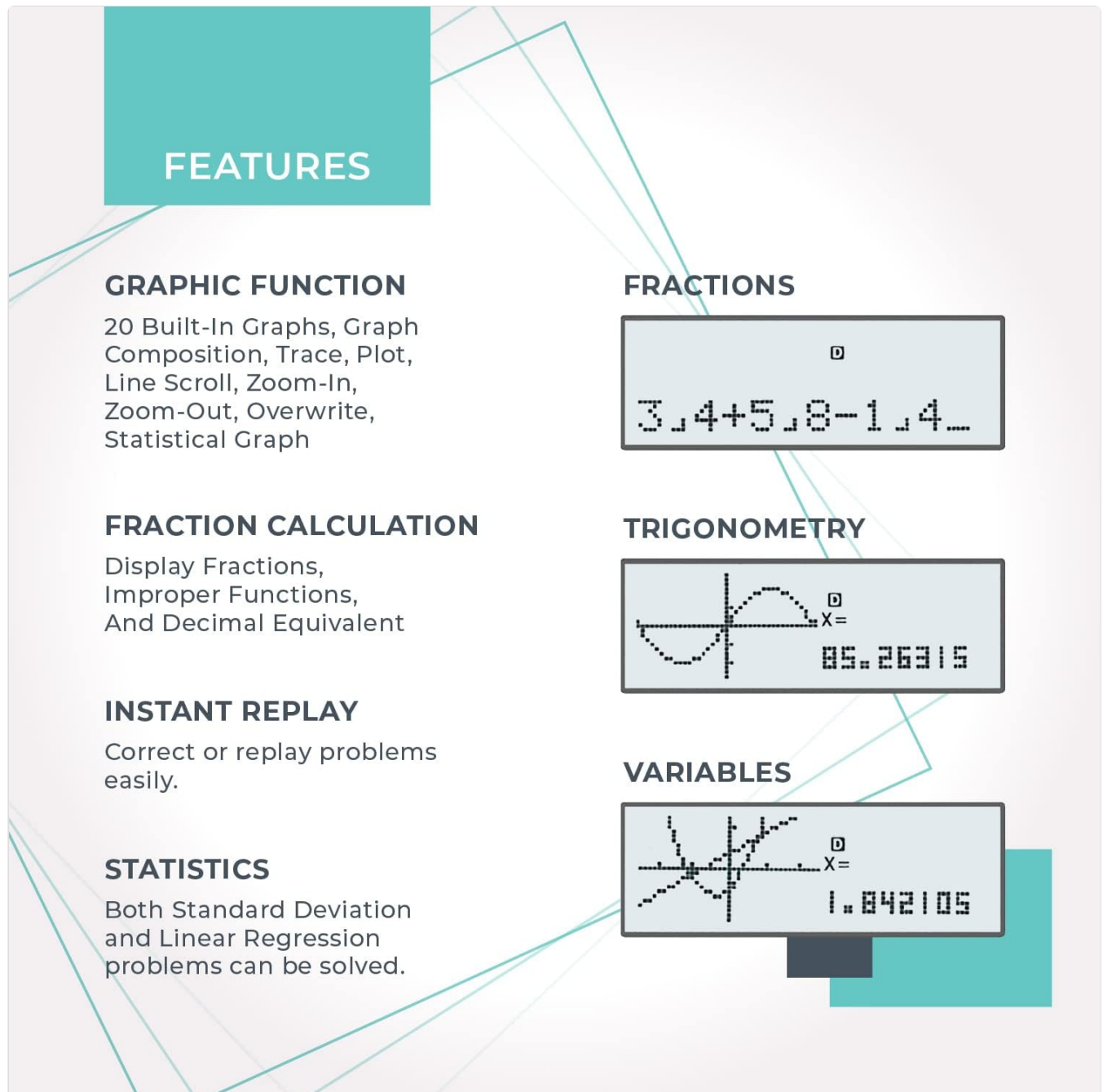


Image: An overview of the calculator's key features, including its graphic function, ability to handle fractions, instant replay for corrections, and statistical calculation capabilities.

Proper maintenance ensures the longevity and optimal performance of your CATIGA CS-229 calculator.

- **Cleaning:** Use a soft, dry cloth to clean the calculator's exterior. Avoid abrasive cleaners or solvents.
- **Storage:** Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. Always use the provided protective cover to prevent scratches and damage to the screen and keys.
- **Battery Care:** If the calculator will not be used for an extended period, it is recommended to remove the LR44 battery to prevent leakage.

TROUBLESHOOTING

If you encounter issues with your CATIGA CS-229, try the following solutions:

- **Calculator Does Not Turn On:**
 - Ensure the LR44 battery is correctly installed and has sufficient charge.
 - Press the reset button on the back of the calculator using a thin, pointed object.
- **Display Issues:**
 - If the display is dim, replace the battery.
 - If characters are incomplete or distorted, try resetting the calculator.
- **Incorrect Calculations:**
 - Verify that you are in the correct operating mode (e.g., Degrees vs. Radians for trigonometric functions).
 - Ensure all previous calculations are cleared using the **AC** (All Clear) button.
 - Perform a reset if persistent errors occur.

For further assistance, please refer to the Warranty and Support section.

SPECIFICATIONS

Feature	Detail
Model	CS-229
Dimensions	7.12 x 4.5 x 0.04 inches
Item Weight	4.8 ounces
Power Source	1 LR44 battery (included)
Screen Size	2 Inches
Functions	Over 360 (including graphic, statistical, trigonometric, algebraic)
Operating Modes	Angle Measurement, Calculation, Display

WARRANTY AND SUPPORT

CATIGA offers a limited warranty of 365 days for the CS-229 Scientific Calculator. This warranty covers manufacturing defects and ensures your product functions as intended under normal use.

If you experience any problems or have questions regarding your calculator, please contact CATIGA customer support. We aim to provide a response within 24 hours.

For the most up-to-date support information and contact methods, please visit the official CATIGA website or refer to the documentation included with your purchase.



Image: Illustration representing customer support, indicating availability for assistance with the product.

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