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CATIGA CS-121

CATIGA Scientific Calculator CS-121 User Manual

INTRODUCTION

This manual provides detailed instructions for the CATIGA Scientific Calculator CS-121. It covers essential information regarding the calculator's setup, operation, functions, maintenance, and troubleshooting. Please read this manual thoroughly to ensure proper use and to maximize the functionality of your device.

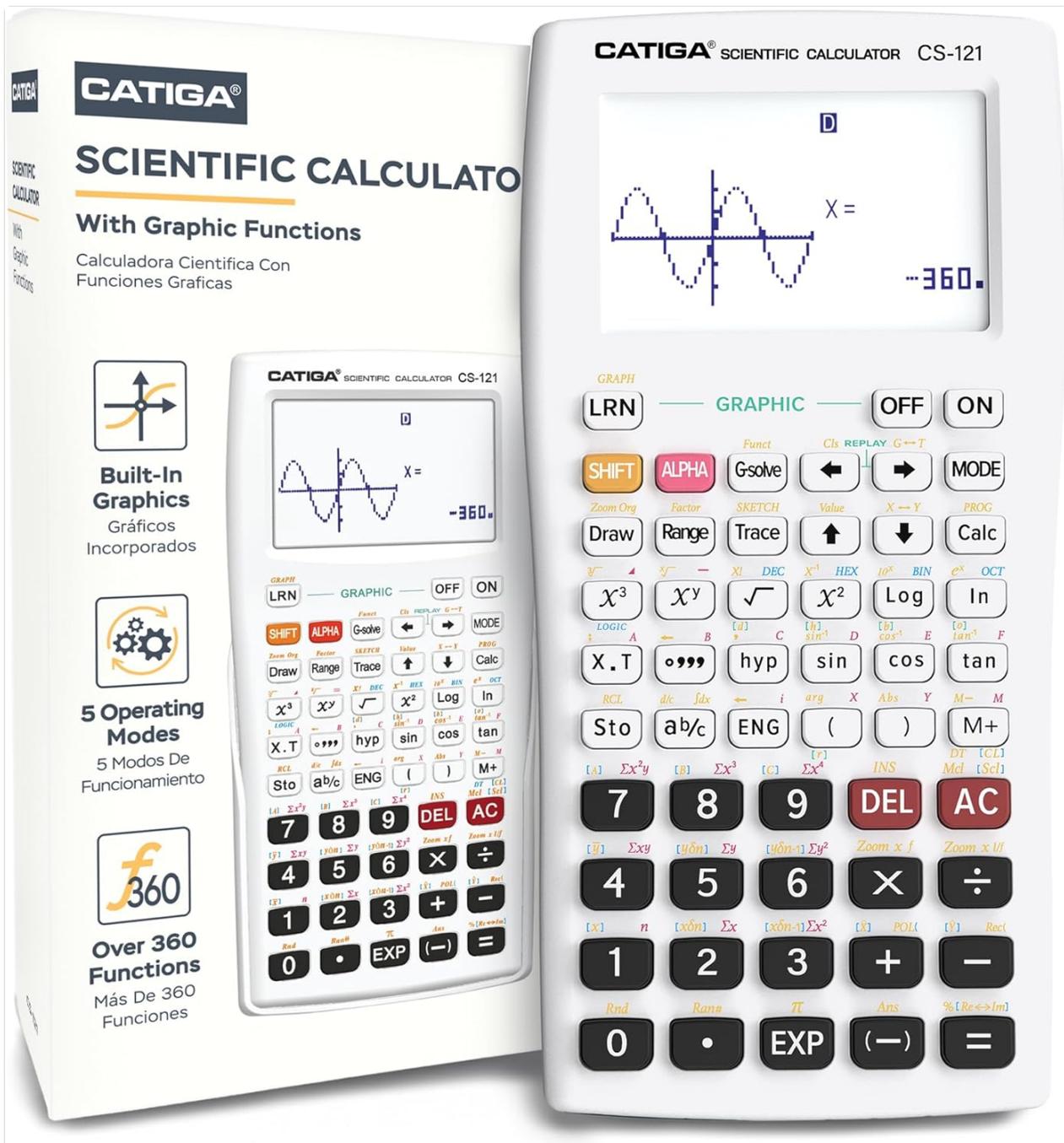


Image: The CATIGA Scientific Calculator CS-121, shown alongside its product packaging, highlighting its graphic display capabilities.

SETUP

Battery Installation

The CATIGA Scientific Calculator CS-121 requires one LR44 battery, which is included with the product. To install or replace the battery:

1. Locate the battery compartment cover on the back of the calculator.
2. Use a small screwdriver to remove the screw securing the cover.
3. Carefully remove the cover.
4. Insert the LR44 battery, ensuring the correct polarity (+/-) as indicated inside the compartment.
5. Replace the cover and secure it with the screw.

Initial Power On and Reset

After battery installation, press the [ON] button to power on the calculator. If the calculator does not turn on or behaves unexpectedly, press the reset button located on the back of the unit. This will restore the calculator to its default settings.

OPERATING MODES

The calculator features three primary operating modes to suit various calculation needs:

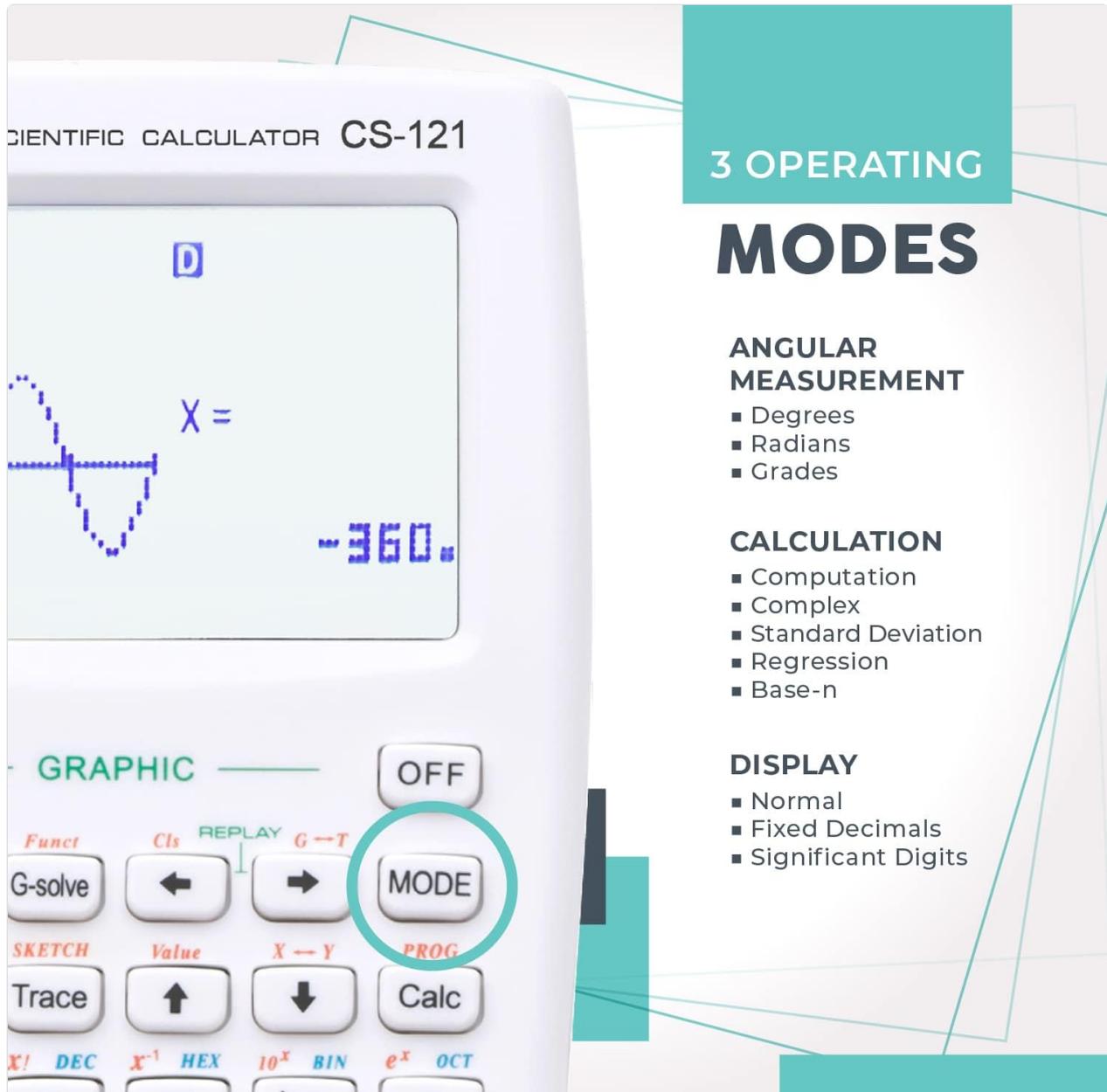


Image: A close-up of the calculator's display and keypad, highlighting the 'MODE' button and listing the three operating modes: Angular Measurement, Calculation, and Display.

- **Angular Measurement Mode:**

- **Degrees:** Standard angular unit.
- **Radians:** Used in advanced mathematics and physics.
- **Grades:** A less common angular unit.

- **Calculation Mode:**

- **Computation:** General arithmetic and function calculations.
 - **Complex:** For calculations involving complex numbers.
 - **Standard Deviation:** Statistical calculations for data analysis.
 - **Regression:** For statistical regression analysis.
 - **Base-n:** Calculations in different number bases (binary, octal, hexadecimal).
- **Display Mode:**
 - **Normal:** Standard display format.
 - **Fixed Decimals:** Sets a fixed number of decimal places.
 - **Significant Digits:** Controls the number of significant figures displayed.

To switch between modes, press the **[MODE]** button and select the desired option from the menu.

FUNCTIONS AND CAPABILITIES

The CATIGA Scientific Calculator CS-121 offers a wide range of functions, making it suitable for various academic and professional applications.

FEATURES

GRAPHIC FUNCTION

20 Built-In Graphs, Graph Composition, Trace, Plot, Line Scroll, Zoom-In, Zoom-Out, Overwrite, Statistical Graph

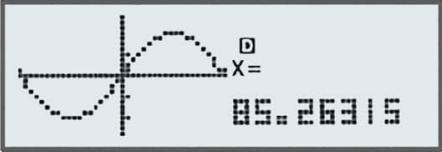
FRACTIONS



FRACTION CALCULATION

Display Fractions, Improper Functions, And Decimal Equivalent

TRIGONOMETRY



INSTANT REPLAY

Correct or replay problems easily.

VARIABLES



STATISTICS

Both Standard Deviation and Linear Regression problems can be solved.

Image: A visual representation of the calculator's key features, including graphic function display, fraction calculation, instant replay, and statistical capabilities.

Graphic Functions

- **Built-in Graphs:** Access pre-programmed graphical representations.
- **Graph Composition:** Combine multiple graphs on the same display.
- **Trace, Plot, Line Scroll:** Navigate and analyze points on a graph.
- **Zoom-In, Zoom-Out:** Adjust the view of the graph for detailed analysis or broader perspective.
- **Overwrite:** Modify existing graphs.
- **Statistical Graph:** Visualize statistical data.

Mathematical Functions

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 $\sqrt{\quad}$ / 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)

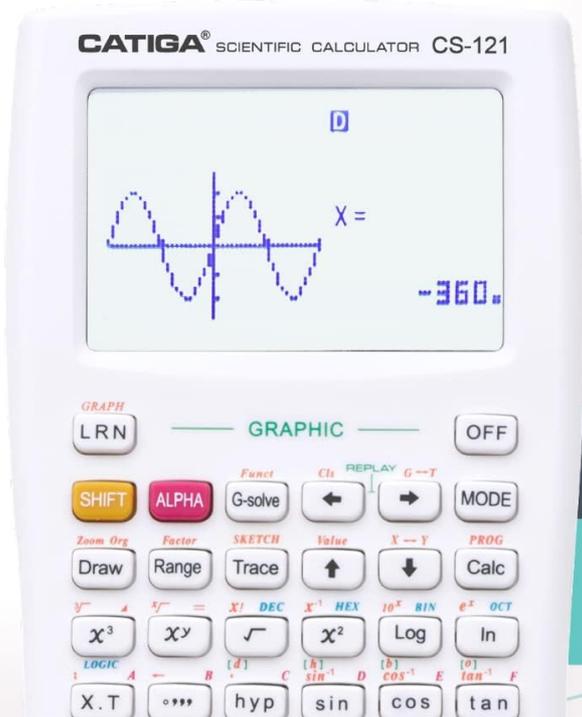


Image: An overview of the calculator's versatile function capabilities, detailing utilities, basic functions, algebra, geometry, probability, and statistics.

- **Utilities:**
 - Equation Solver.

- 9 Variable Memories for storing values.

- **Basic Functions:**

- Trigonometry Functions (sin, cos, tan).
- Hyperbolic and Inverse Hyperbolic Functions.
- Exponential / Logarithmic Functions.
- Power Functions.
- Fraction Calculations (displaying fractions, improper fractions, and decimal equivalents).
- Sexagesimal Functions.

- **Algebra:**

- Calculation with $\sqrt{\pi}$ Symbol.
- 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).

Instant Replay

The instant replay feature allows you to correct or re-evaluate previous calculations easily, saving time and reducing errors.

DISPLAY

The CATIGA Scientific Calculator CS-121 features a large, clear display designed for enhanced readability and functionality.

HUGE 3 INCH

DISPLAY

3.25 TIMES LARGER
Than Standard
Scientific Calculators

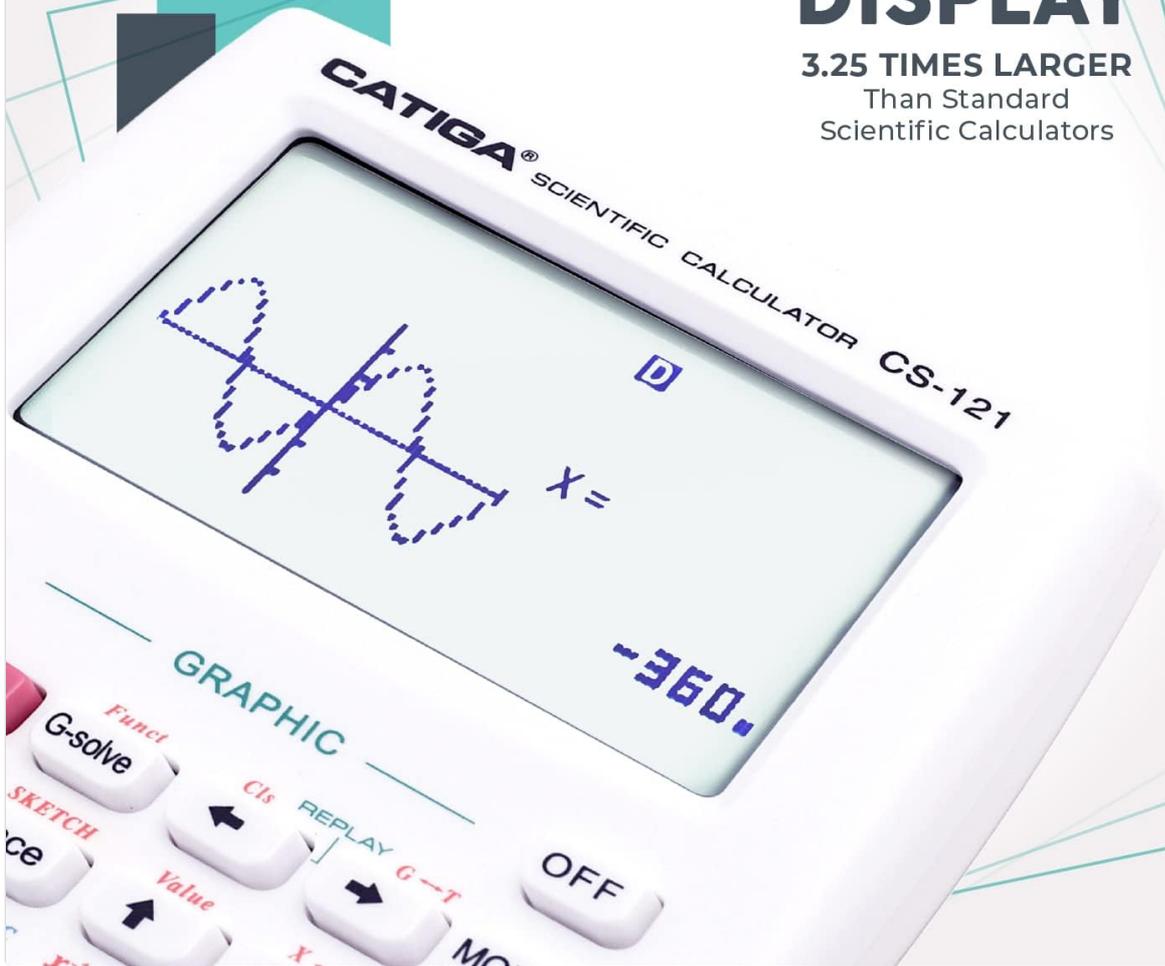


Image: A close-up of the calculator's large 3-inch display, showing a sine wave graph and numerical output, emphasizing its size and clarity.

- **Screen Size:** The calculator boasts a 3-inch display, which is approximately 3.25 times larger than standard scientific calculator screens.
- **Simultaneous Display:** The large screen allows for the simultaneous display of graphs and equations, enabling users to view calculations and make corrections with high detail.

MAINTENANCE

Cleaning

To maintain the calculator's appearance and functionality, wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing and screen.

Protective Cover

COMES WITH

PROTECTIVE COVER



Image: The CATIGA Scientific Calculator CS-121 shown with its included protective cover, designed to shield the device from damage.

The calculator comes with a protective cover. Always use this cover when the calculator is not in use or when transporting it to prevent scratches, impacts, and dust accumulation on the screen and keys.

Battery Replacement

Refer to the **Setup** section for instructions on how to replace the LR44 battery.

TROUBLESHOOTING

Calculator Does Not Turn On

- Ensure the battery is correctly installed with the proper polarity.
- Check if the battery needs replacement.
- Press the reset button on the back of the calculator.

Incorrect Calculation Results

- Verify that the correct operating mode (e.g., Degrees, Radians) is selected for your calculation.
- Check your input for any typographical errors.
- Ensure that the correct function syntax is used.
- If issues persist, perform a reset using the button on the back.

SPECIFICATIONS

Feature	Specification
Model Number	CS-121 (Internal SKU: 7545882582)
Product Dimensions	7.12 x 4.5 x 0.8 inches
Item Weight	4.8 ounces
Batteries	1 LR44 battery (included)
Screen Size	3 Inches
Calculator Type	Engineering/Scientific with Graphic Functions
Power Source	Battery Powered
Manufacturer	Catiga

WARRANTY AND SUPPORT

The CATIGA Scientific Calculator CS-121 comes with a 365-day limited warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.



Image: A physical instruction manual for the CATIGA Scientific Calculator CS-121, demonstrating the availability of comprehensive guidance.

For warranty claims, technical assistance, or any other inquiries, please contact CATIGA customer support. Contact details are typically provided on the product packaging or the official CATIGA website. Please have your product model number (CS-121) and proof of purchase ready when contacting support.