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## Helect H-1002

# Helect H-1002 2-Line Engineering Scientific Calculator User Manual

Model: H-1002

## INTRODUCTION

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This manual provides comprehensive instructions for the Helect H-1002 2-Line Engineering Scientific Calculator. It covers initial setup, operational procedures for various functions, maintenance guidelines, and troubleshooting tips. This calculator is designed for students and professionals requiring advanced mathematical and scientific calculations.

## SETUP

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### Power Source

The Helect H-1002 calculator operates primarily on solar power. It is designed to function in well-lit environments. No user-replaceable batteries are included or required for standard operation. The internal power source is not intended for user access or replacement.

### Initial Use

To power on the calculator, press the **ON** button. Ensure the calculator is exposed to sufficient light for optimal performance. The 2-line display will activate, ready for input.

### Protective Case

The calculator comes with a slide-off protective hard case. This case can be slid onto either the front or back of the calculator to protect the display and keys during storage or transport.

# Removable Protective Case

A slide-on hard case protects the calculator nicely.



Image: The Helect H-1002 calculator with its removable protective case. The case slides on to protect the device.

## OPERATING INSTRUCTIONS

### Display and Basic Operations

The calculator features a 12-digit widescreen HD display with a 2-line format. The upper line displays the input expression, while the lower line shows the calculated result. This allows for simultaneous viewing of both the calculation and its outcome.



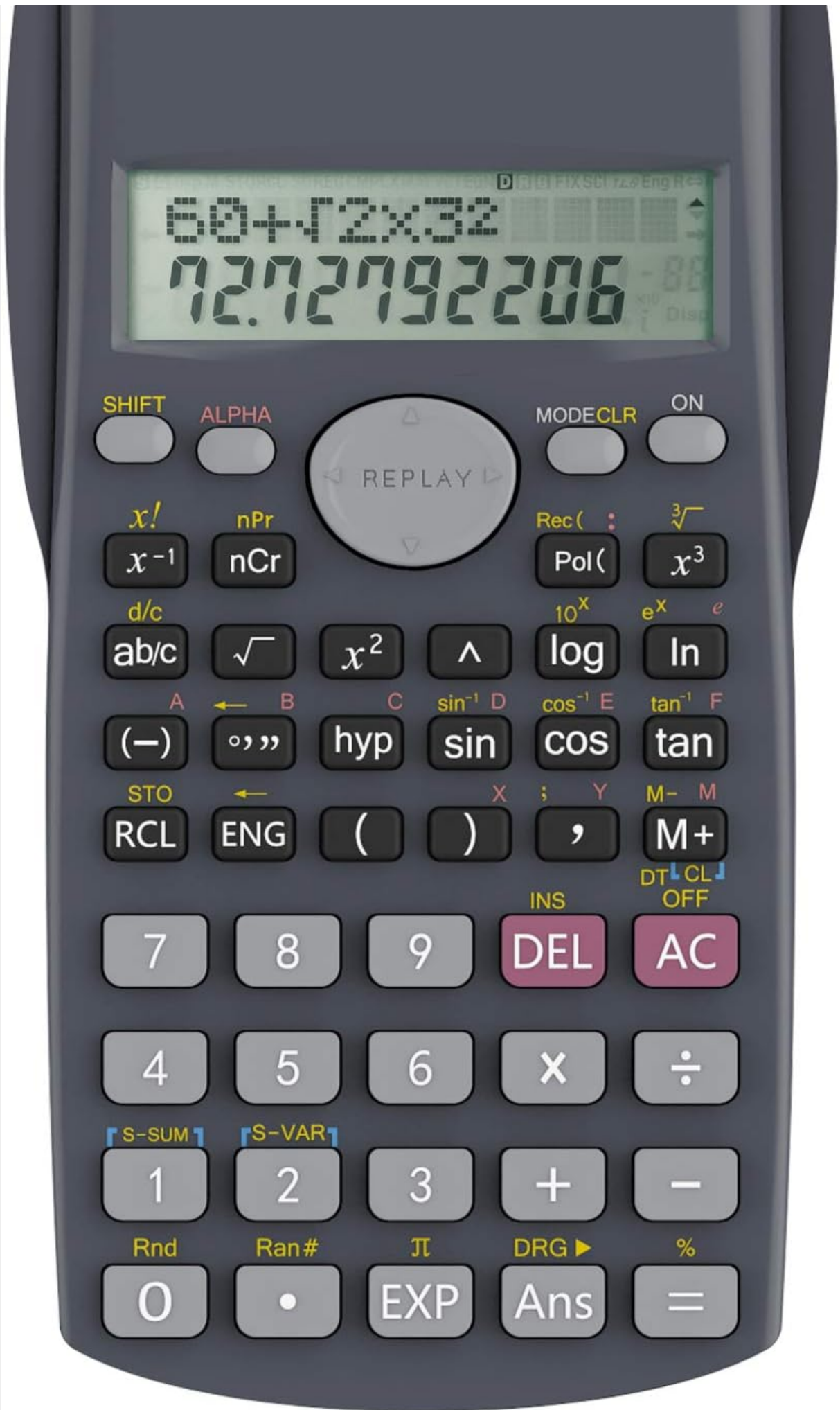


Image: Front view of the Helect H-1002 Scientific Calculator, highlighting its 2-line display and key layout.

## Key Functions Overview

- **SHIFT Key:** Activates the secondary functions printed above the keys in yellow.
- **ALPHA Key:** Activates the alpha functions (variables A, B, C, D, E, F, X, Y, M) printed above the keys in red.
- **MODE/CLR Key:** Changes calculation modes (e.g., COMP, STAT) and clears settings.
- **ON Key:** Powers on the calculator.
- **DEL Key:** Deletes the character at the cursor position.
- **AC Key:** Clears all entries and returns to the initial display.
- **REPLAY Buttons (Up, Down, Left, Right):** Navigates through previous calculations and allows editing.
- **Scientific Functions:** Includes trigonometric (sin, cos, tan), logarithmic (log, ln), power ( $x^2$ ,  $x^3$ ,  $x^\wedge$ ), root ( $\sqrt{\phantom{x}}$ ), factorial ( $x!$ ), and more.
- **Statistical Calculations:** Supports 1-variable and 2-variable statistical calculations.
- **Angle Modes:** Switch between Degrees (D), Radians (R), and Gradians (G).
- **Engineering Notation:** Supports scientific and engineering notation modes.

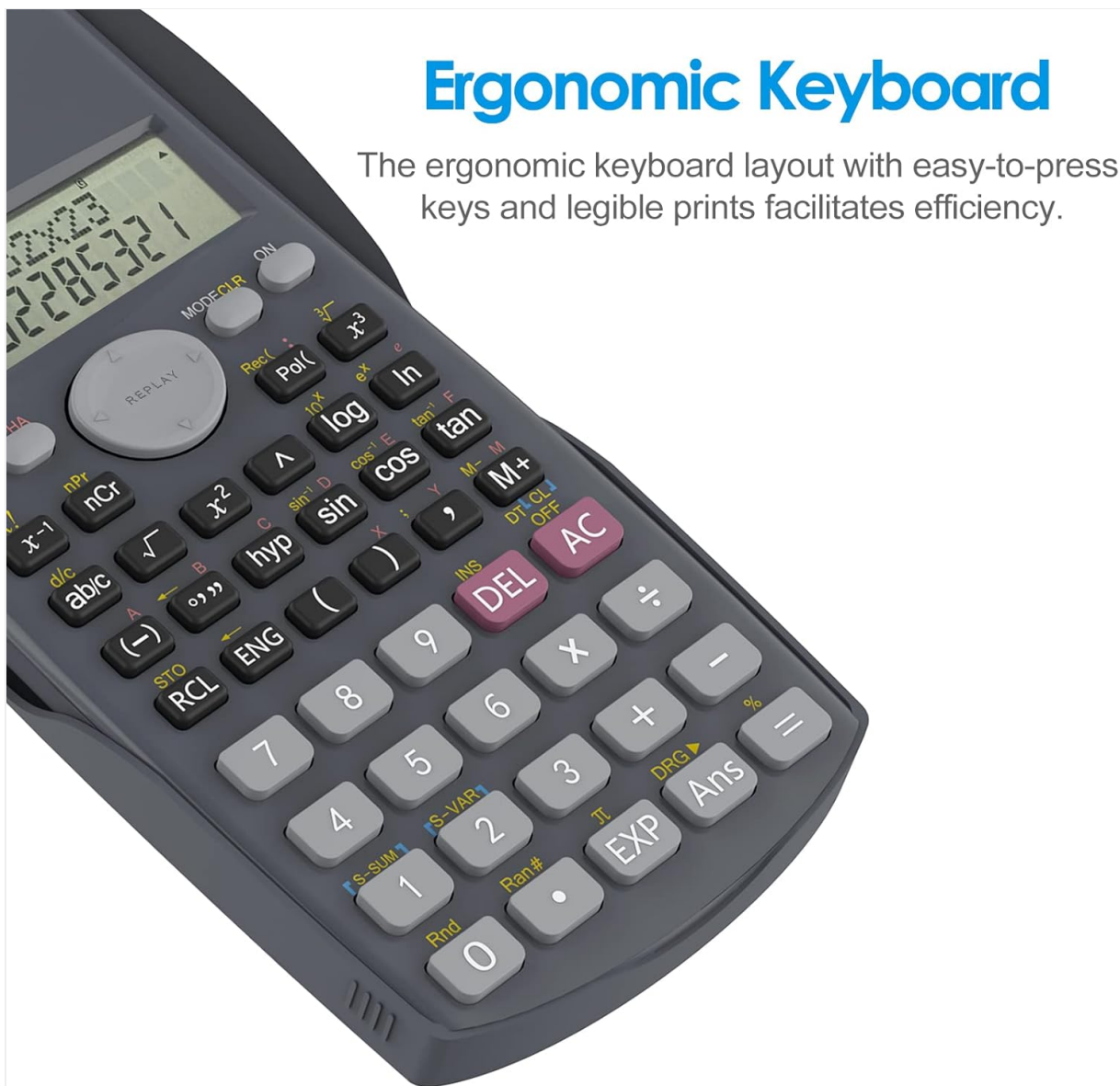


Image: Close-up view of the Helect H-1002 Scientific Calculator's ergonomic keyboard, showing the layout of keys and their labels.

# Compact Design

The compact calculator is very portable and enables handheld operations.



Image: The Helect H-1002 Scientific Calculator, illustrating its compact design for portability and handheld use.

## Example: Basic Calculation

1. Press **ON** to turn on the calculator.
2. Enter the first number, e.g., **5**.
3. Press the desired operation, e.g., **+**.
4. Enter the second number, e.g., **3**.
5. Press **=** to display the result.

## Example: Trigonometric Function (Sine of 30 degrees)

1. Ensure the calculator is in Degree mode. If not, press **MODE/CLR** repeatedly until "Deg" appears or select the appropriate option.
2. Press **sin**.
3. Enter **30**.
4. Press **)** to close the parenthesis (optional, but good practice).

5. Press =. The result should be 0.5.



Image: A user's hand pressing keys on the Helect H-1002 calculator, demonstrating its use in a work or study setting.

## MAINTENANCE

### Cleaning

To clean the calculator, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water and gently wipe the surface. Avoid using harsh chemicals, abrasive cleaners, or excessive moisture, as these can damage the display or internal components.

### Storage

When not in use, store the calculator in its protective hard case to prevent scratches and damage to the keys and display. Keep the calculator in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.

### Battery Information

The Helect H-1002 calculator is primarily solar-powered. It contains an internal power source that is not designed for user replacement. Attempting to open the calculator to replace the battery may void any applicable warranty and could damage the device.

## TROUBLESHOOTING

### Calculator Does Not Turn On

- Ensure the calculator is exposed to sufficient light. As it is solar-powered, low light conditions may prevent it from turning on or functioning correctly.
- Press the **ON** button firmly.

### Incorrect Results

- Check the current calculation mode (e.g., COMP, STAT). Press **MODE/CLR** to change modes if necessary.
- Verify the angle unit setting (Degrees, Radians, Gradians). Adjust as needed.
- Clear all previous calculations and memory by pressing **SHIFT** then **CLR** (usually associated with MODE/CLR key) and select the appropriate clear option (e.g., "All").

### Display Issues

- If the display is dim, ensure adequate lighting for the solar panel.
- If characters are incomplete or garbled, try resetting the calculator (see "Resetting the Calculator" below).

### Resetting the Calculator

If the calculator behaves erratically or displays unexpected results, a full reset may resolve the issue. To perform a reset, press **SHIFT**, then **CLR** (usually the **MODE/CLR** key), and select option **3 (All)**, then press **=** to confirm. This will clear all memory and return the calculator to its factory default settings.

## SPECIFICATIONS

Feature	Detail
Brand	Helect
Model Number	H-1002
Calculator Type	Engineering/Scientific
Display Type	LCD, 2-Line
Screen Size	6.3 Centimeters
Number of Functions	240 Scientific Functions
Power Source	Solar
Material Type	Plastic
Color	Black
Product Dimensions	15.9 x 8.2 x 2.1 cm
Item Weight	180 g

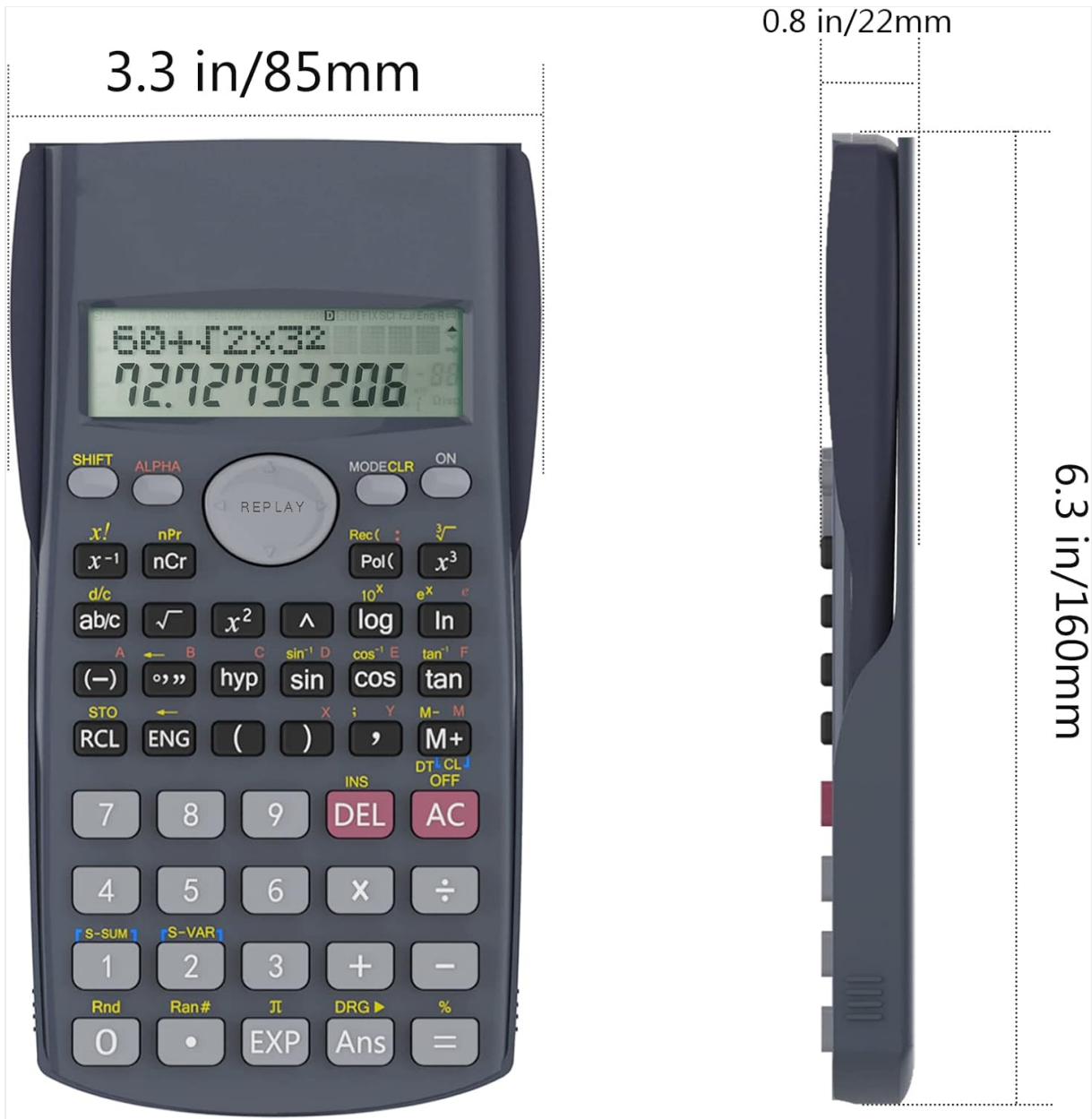


Image: The Helect H-1002 calculator shown with its physical dimensions for reference.

## WARRANTY AND SUPPORT

Specific warranty details for the Helect H-1002 calculator are typically provided at the time of purchase or can be obtained directly from the manufacturer or authorized retailer. For product support, please refer to the contact information provided with your purchase or visit the official Helect website.