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## Sharp EL-2135

# Sharp EL-2135 12-Digit Electronic Desktop Calculator User Manual

Model: EL-2135

## 1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Sharp EL-2135 12-digit electronic desktop calculator. Designed for general purpose calculations, this lightweight and ergonomically designed calculator is ideal for both school and office environments. It features a clear 12-digit LCD display and operates efficiently with dual power sources.

## 2. KEY FEATURES

- **12-Digit LCD Display:** Provides clear and easy-to-read numerical output.
- **Comfortable Desktop Size:** Optimized dimensions for stable and convenient use on any desk.
- **Elegant Gray Body:** Durable ABS plastic construction with a professional aesthetic.
- **Square Root Function:** Dedicated button for quick square root calculations.
- **Dual Power Source:** Operates on both solar power and a lithium-ion battery, ensuring functionality even in low light conditions.

## 3. SETUP

### 3.1 Powering On

The Sharp EL-2135 calculator utilizes a dual power system: solar and battery. It will automatically draw power from the solar cell when sufficient light is available. In dim lighting or darkness, the included lithium-ion battery will provide power. No manual power-on switch is typically required; the calculator activates upon light exposure or key press.

### 3.2 Battery Installation/Replacement

The calculator comes with a lithium-ion battery pre-installed. If battery replacement becomes necessary:

1. Ensure the calculator is off or in a well-lit area to utilize solar power.
2. Locate the battery compartment on the back of the unit.
3. Carefully open the compartment cover.
4. Remove the old battery and insert a new CR2032 lithium-ion battery, ensuring correct polarity (+/-).
5. Close the battery compartment cover securely.

*Note: Dispose of used batteries according to local regulations.*

## 4. OPERATING INSTRUCTIONS

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### 4.1 Basic Arithmetic Operations

Perform addition, subtraction, multiplication, and division using the dedicated keys:

- **Addition (+):** Enter the first number, press **+**, enter the second number, press **=**.
- **Subtraction (-):** Enter the first number, press **-**, enter the second number, press **=**.
- **Multiplication (x):** Enter the first number, press **x**, enter the second number, press **=**.
- **Division (÷):** Enter the first number, press **÷**, enter the second number, press **=**.

### 4.2 Special Functions

- **Square Root (√):** Enter a number, then press the **√** key to calculate its square root.
- **Percentage (%):** Used for percentage calculations. For example, to calculate 10% of 200: Enter 200, press **×**, enter 10, press **%**.
- **Grand Total (GT):** Accumulates the results of all calculations performed after the last GT clear. Press **GT** to display the grand total.
- **Mark-up/Mark-down (MU):** Used for profit margin calculations.
- **Clear Entry (CE):** Clears the last entered number or operation without affecting previous calculations.
- **Clear All (CA):** Clears all entries and calculations, resetting the calculator.
- **Memory Plus (M+):** Adds the displayed value to the memory.
- **Memory Minus (M-):** Subtracts the displayed value from the memory.
- **Recall Memory (RM):** Displays the value currently stored in memory.
- **Clear Memory (CM):** Clears the memory.

### 4.3 Display

The 12-digit LCD display shows numbers clearly. If the result of a calculation exceeds 12 digits, an error indicator may appear, or the number may be displayed in scientific notation if supported.

## 5. MAINTENANCE

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### 5.1 Cleaning

To clean the calculator, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the casing and display.

### 5.2 Storage

Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. Prolonged

exposure to heat or cold can affect battery life and electronic components. When not in use for extended periods, ensure it is stored in a manner that prevents accidental key presses.

## 6. TROUBLESHOOTING

- **Display is blank or dim:**

- Ensure the calculator is in a well-lit area for solar power.
- Check if the battery needs replacement. Refer to Section 3.2.

- **Incorrect calculations:**

- Press the **CA** (Clear All) button to reset the calculator.
- Verify that you are entering numbers and operations correctly.

- **Keys are unresponsive:**

- Clean the keys and surrounding areas to remove any debris.
- If the issue persists, the calculator may require professional servicing.

## 7. SPECIFICATIONS

<b>Model Number</b>	EL-2135
<b>Display</b>	12-Digit LCD
<b>Power Source</b>	Solar and 1 x Lithium-Ion Battery (included)
<b>Dimensions (L x W x H)</b>	18.5 x 17.5 x 1.8 cm (7.28 x 6.89 x 0.71 inches)
<b>Weight</b>	271 grams (0.6 lbs)
<b>Material</b>	ABS Plastic
<b>Color</b>	Gray
<b>GTIN (Global Trade Item Number)</b>	04974019006116

## 8. PRODUCT IMAGES



**Figure 1:** Front view of the Sharp EL-2135 calculator, highlighting the 12-digit display and key arrangement. The calculator features a white body with gray and blue function keys.



**Figure 2:** Rear view of the Sharp EL-2135 calculator packaging, displaying the model number EL-2135 and the manufacturer's information, including the GTIN/UPC barcode (04974019006116).



**Figure 3:** The Sharp EL-2135 calculator shown in hand for scale, with an indication of its height at 5.8 inches (14 cm), demonstrating its comfortable and portable size.

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation included with your purchase or contact your retailer. For technical support or service inquiries, please visit the official Sharp website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

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