Deli ED991ES

Deli ED991ES Scientific Calculator User Manual

Model: ED991ES

1. INTRODUCTION

The Deli ED991ES is a scientific calculator designed for students and professionals, offering 417 functions for a wide range of mathematical and scientific calculations. It features a clear LCD display, rubber buttons for comfortable operation, and a protective sliding cover. This calculator is powered by both batteries and solar energy, ensuring reliable performance.

2. SETUP

2.1 Battery Installation

The Deli ED991ES calculator requires two AA batteries for operation. It also features a solar panel for supplementary power, extending battery life.

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 two AA batteries, ensuring correct polarity (+/-) as marked inside the compartment.
4. Replace the battery compartment cover until it clicks securely into place.

Note: The calculator utilizes a dual power system (battery and solar). Ensure sufficient light for solar power to function effectively.

2.2 Power On/Off

To turn the calculator on, press the **[ON]** button. To turn it off, press **[SHIFT]** followed by **[OFF]**.

Image 1: The Deli ED991ES Scientific Calculator with its protective sliding cover. This image shows the overall design and key layout.

3. OPERATING INSTRUCTIONS

The Deli ED991ES offers 417 functions and 8 calculation modes to support various mathematical and scientific tasks. The clear LCD display shows inputs and results effectively.

3.1 Basic Operations

Perform standard arithmetic operations using the number keys and operators (**[+]**, **[-]**, **[×]**, **[÷]**). Press **[=]** to get the result.

3.2 Function Modes

To access different calculation modes, press the **[MODE SETUP]** button and select the desired mode from the menu. Available modes include:

- **COMP:** Basic arithmetic and functional calculations.
- **STAT:** Statistical calculations, including standard deviation.
- **TABLE:** Generate number tables from functions.
- **EQN:** Equation solving.

- **MATRIX:** Matrix calculations.
- **VECTOR:** Vector calculations.
- **BASE-N:** Base-N calculations.
- **CMPLX:** Complex number calculations.

3.3 Key Functions

The calculator includes dedicated keys for various functions:

- **Trigonometric Functions: [sin]**, **[cos]**, **[tan]** and their inverse functions (accessed via **[SHIFT]**).
- **Logarithmic Functions: [log]**, **[ln]**.
- **Power and Root Functions: [x²]**, **[√]**, **[xʸ]**.
- **Memory Functions: [STO]** (Store), **[RCL]** (Recall), **[M+]** (Memory Plus).
- **Fractional Calculations:** Use the fraction key to input and calculate fractions.
- **Constants and Conversions:** Access scientific constants and unit conversions via **[SHIFT]** or **[ALPHA]**.

Image 2: The calculator displaying a numerical result, demonstrating its clear screen and button layout during operation.

Image 3: A user's hand interacting with the calculator, highlighting the ergonomic design of the rubber buttons.

Image 4: The calculator positioned on a worksheet, illustrating its practical use in an academic setting.

4. MAINTENANCE

4.1 Cleaning

To clean the calculator, wipe it gently with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the device, as this may damage the display or internal components.

4.2 Storage

When not in use, always keep the protective sliding cover on the calculator to prevent dust, scratches, and accidental button presses. Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

- **Calculator does not turn on:** Check if the batteries are correctly installed and have sufficient charge. Ensure there is adequate light for the solar panel if operating in low light conditions.
- **Incorrect results:** Verify that the calculator is in the correct mode (e.g., DEG/RAD for angles, COMP for basic calculations). Clear previous calculations by pressing **[AC]**.

- **Display is dim or blank:** Replace the batteries. Ensure the solar panel is exposed to light.

- **Buttons are unresponsive:** Ensure no debris is lodged under the buttons. If the issue persists, try removing and reinserting the batteries to reset the device.

6. SPECIFICATIONS

Feature	Detail
Model Number	ED991ES
Brand	Deli
Type	Scientific / Engineering Calculator
Number of Functions	417
Power Source	Battery (2 AA), Solar
Display Type	LCD
Dimensions (L x W x H)	171.9 x 83 x 17.5 mm
Weight	216 g
Color	Black

7. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.