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› [IPEROT Scientific Calculator IP-991ES Plus Instruction Manual](#)

IPEROT IP-991ES Plus

IPEROT Scientific Calculator IP-991ES Plus Instruction Manual

Model: IP-991ES Plus

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your IPEROT Scientific Calculator IP-991ES Plus. This calculator is designed for a wide range of mathematical and scientific applications, featuring 417 functions and a 4-line display. Please read this manual thoroughly to ensure optimal performance and longevity of your device.



Image 1: Front view of the IPEROT Scientific Calculator IP-991ES Plus. The calculator is black with a clear 4-line display showing a sample integral calculation. The keys are arranged logically for scientific functions.

2. SETUP AND POWER SUPPLY

Your IPEROT Scientific Calculator IP-991ES Plus utilizes a dual power system, combining solar power with a battery backup. This ensures continuous operation in various lighting conditions.

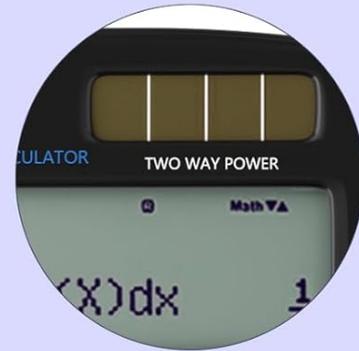
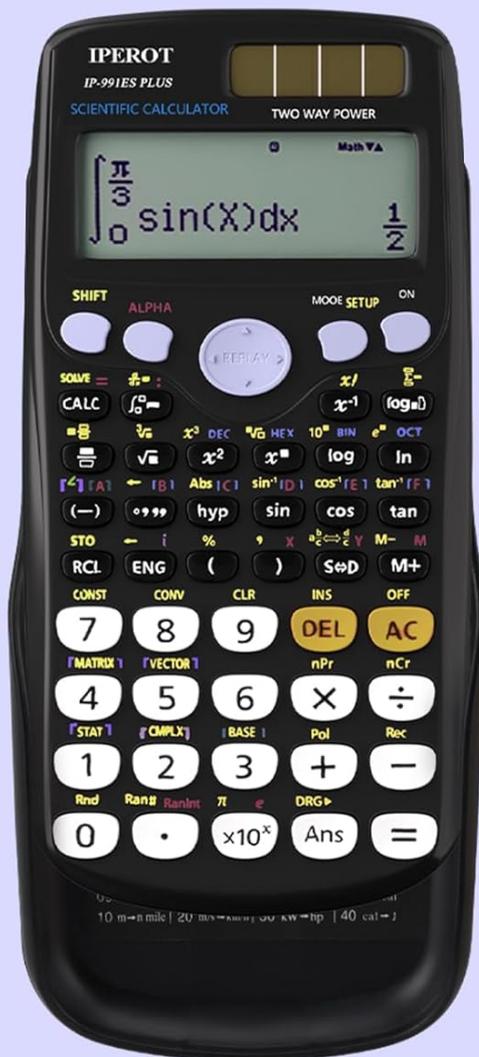
2.1 Powering On/Off

- To power on the calculator, press the **ON** button located at the top right of the keypad.
- To power off the calculator, press **SHIFT** followed by the **AC** button (which also functions as OFF).

2.2 Dual Power System

The calculator is equipped with both solar cells and a single LR44 button cell battery (included). The solar cells provide power in well-lit environments, while the battery takes over in low light or when solar power is insufficient.

TWO POWER SUPPLY METHODS



Solar powered



On Battery

Image 2: Illustration of the calculator's dual power system. The image shows the solar panel on the calculator and a close-up of the battery compartment for the LR44 battery.

2.3 Battery Replacement

When the display becomes dim or calculations are erratic in sufficient light, the battery may need replacement. Use a small screwdriver to open the battery compartment on the back of the calculator and replace the LR44 battery, ensuring correct polarity.

3. OPERATING INSTRUCTIONS

This section details the various functions and modes of your IPEROT Scientific Calculator IP-991ES Plus.

3.1 Display and Basic Operations

The calculator features a 4-line display, allowing for clear viewing of expressions and results. Input is displayed on the upper lines, and results on the lower line.



Image 3: Close-up of the calculator's 4-line display, highlighting its dimensions (0.98 inches by 3.15 inches) and showing a complex integral calculation.

- **Inputting Numbers:** Use the numeric keypad (0-9) and the decimal point (.).
- **Arithmetic Operations:** Use +, -, ×, ÷ for basic calculations.
- **Equals:** Press = to execute a calculation.
- **Clear:** Press **AC** to clear all entries and reset the calculator. Press **DEL** to delete the last entered character.

3.2 Function Modes (417 Functions)

The calculator supports 8 calculation modes, providing 417 functions for various mathematical and scientific tasks. To access different modes, press the **MODE SETUP** button.



Image 4: A visual representation of the 8 calculation modes available on the IPEROT Scientific Calculator, including General Calculations (COMP), Complex Numbers (CMPLX), Statistics (STAT), Base-N, Equation Solution, Matrix Calculations, Table, and Vector.

Common modes include:

- **COMP (Compute):** For general arithmetic and function calculations.
- **CMPLX (Complex Numbers):** For calculations involving complex numbers.
- **STAT (Statistics):** For statistical calculations like mean, standard deviation, and regression.
- **BASE-N:** For calculations in different number bases (binary, octal, decimal, hexadecimal).
- **EQN (Equation):** For solving linear and quadratic equations.
- **MATRIX:** For matrix operations.
- **TABLE:** For generating number tables from functions.
- **VECTOR:** For vector calculations.

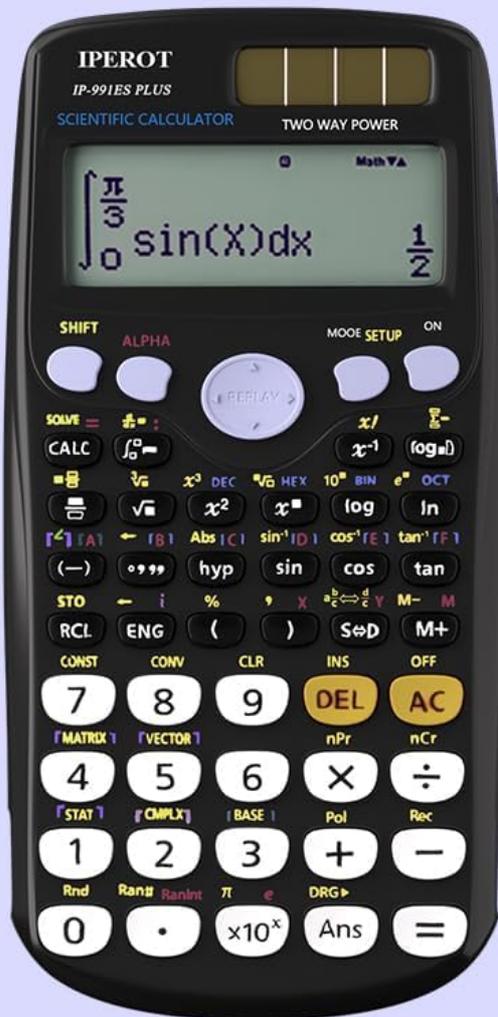
3.3 Advanced Functions

The calculator supports a wide array of advanced functions, including:

- **Trigonometric Functions:** sin, cos, tan, and their inverses.
- **Logarithmic Functions:** log, ln, 10^x , e^x .
- **Power and Root Functions:** x^2 , x^3 , x^{-1} , $\sqrt{\quad}$, $\sqrt[3]{\quad}$, x^y .
- **Calculus:** Derivative and integral calculations.
- **Fractions:** Input and calculate with fractions.
- **Permutations and Combinations:** nPr, nCr.
- **Constants and Conversions:** Access built-in scientific constants and unit conversions.

Many functions are accessed by pressing the **SHIFT** or **ALPHA** key before the desired function key. Refer to the key labels for secondary functions.

WRITTEN DISPLAY



Calculate the value of the factorial function $(5+3)!$

A close-up of the calculator screen showing the expression $(5+3)!$ and the result 40320 . The screen also shows 'Math VA' in the top right corner.

Calculate the value of the absolute value function $|2-7| \times 2$

A close-up of the calculator screen showing the expression $|2-7| \times 2$ and the result 10 . The screen also shows 'Math VA' in the top right corner.

Image 5: Examples of the calculator's written display feature, showing how factorial $(5+3)!$ and absolute value $|2-7| \times 2$ calculations appear on the screen with their respective results.

4. MAINTENANCE AND CARE

Proper care will extend the life of your calculator.

- **Cleaning:** Wipe the calculator with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the calculator in a cool, dry place. Avoid extreme temperatures and direct sunlight.
- **Protection:** Use the included sliding cover to protect the display and keys from scratches and dust.

SLIDING COVER



Image 6: The IPEROT Scientific Calculator shown with its protective sliding cover, illustrating how the cover can be used to shield the display and keys.

5. TROUBLESHOOTING

If you encounter issues with your calculator, refer to the following common problems and solutions:

Problem	Solution
Display is dim or blank.	Ensure the calculator is in a well-lit area for solar power. If the issue persists, replace the LR44 battery.
Calculator does not turn on.	Press the ON button firmly. Check battery status and replace if necessary. Ensure sufficient light for solar operation.

Problem	Solution
Incorrect calculation results.	Verify the correct mode is selected (e.g., COMP for general calculations). Check input values and order of operations. Reset the calculator by pressing SHIFT then CLR (Clear) and select "All" to clear memory and settings.
Keys are unresponsive.	Ensure no debris is lodged under the keys. Clean the calculator surface. If the problem continues, contact customer support.

6. SPECIFICATIONS

Model: IP-991ES Plus (calculator-AB)

Brand: IPEROT

Functions: 417

Display: 4-line LCD

Power Source: Solar and Battery (1 x LR44, included)

Dimensions: 6 x 2 x 0.1 inches (approximately)

Item Weight: 4.6 ounces

Color: Black

7. WARRANTY AND SUPPORT

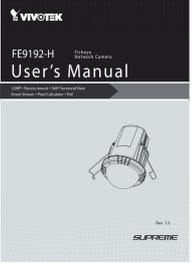
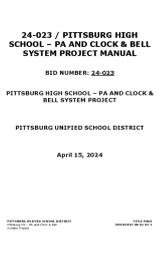
For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official IPEROT website. Keep your proof of purchase for warranty claims.



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Related Documents - IP-991ES Plus

	<p>CASIO fx-570ES PLUS, fx-991ES PLUS, fx-9910NG PLUS User's Guide</p> <p>Comprehensive user's guide for CASIO fx-570ES PLUS, fx-991ES PLUS, and fx-9910NG PLUS scientific calculators, covering setup, functions, calculations, and troubleshooting.</p>
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 <p>Scientific Calculator E-Writer</p> <p>User's Guide • ENGLISH •</p> <p>AB00270N-991ES plus</p>	<p>NY-991ES Plus Scientific Calculator with E-Writer: User Guide & Manual</p> <p>Comprehensive user guide for the ROATEE NY-991ES Plus Scientific Calculator featuring an E-Writer LCD tablet. Learn about its functions, specifications, operation, and safety.</p>
 <p>VIVOTEK</p> <p>FE9192-H Fisheye Network Camera User's Manual</p> <p>Supreme</p>	<p>VIVOTEK FE9192-H Fisheye Network Camera User's Manual</p> <p>Comprehensive user manual for the VIVOTEK FE9192-H Fisheye Network Camera, detailing installation, configuration, network deployment, and advanced features for optimal surveillance.</p>
 <p>VIVOTEK</p> <p>FE8191 & FE8391-V Fisheye Network Camera User's Manual</p>	<p>VIVOTEK FE8191 & FE8391-V Fisheye Network Camera User's Manual</p> <p>User's manual for VIVOTEK FE8191 and FE8391-V fisheye network cameras. Covers overview, installation, network deployment, client settings, configuration, and technical specifications.</p>
 <p>COOLON</p> <p>MAXIS C IP</p>	<p>Coolon MAXIS C IP: High Power Outdoor LED Luminaire Specifications & Features</p> <p>Detailed information on the Coolon MAXIS C IP linear high power outdoor LED luminaire, including technical specifications, dimensions, ordering options, accessories, and features like dimming control and IP65 rating.</p>
 <p>24-023 / PITTSBURG HIGH SCHOOL - PA AND CLOCK & BELL SYSTEM PROJECT MANUAL</p> <p>BID NUMBER: 24-022</p> <p>PITTSBURG HIGH SCHOOL - PA AND CLOCK & BELL SYSTEM PROJECT</p> <p>PITTSBURG UNIFIED SCHOOL DISTRICT</p> <p>April 15, 2024</p>	<p>Pittsburg High School PA and Clock & Bell System Project Manual</p> <p>This document outlines the bid requirements and specifications for the Pittsburg High School Public Address (PA) and Clock & Bell System Project. It includes details on procurement, contracting, project schedules, and instructions for bidders.</p>