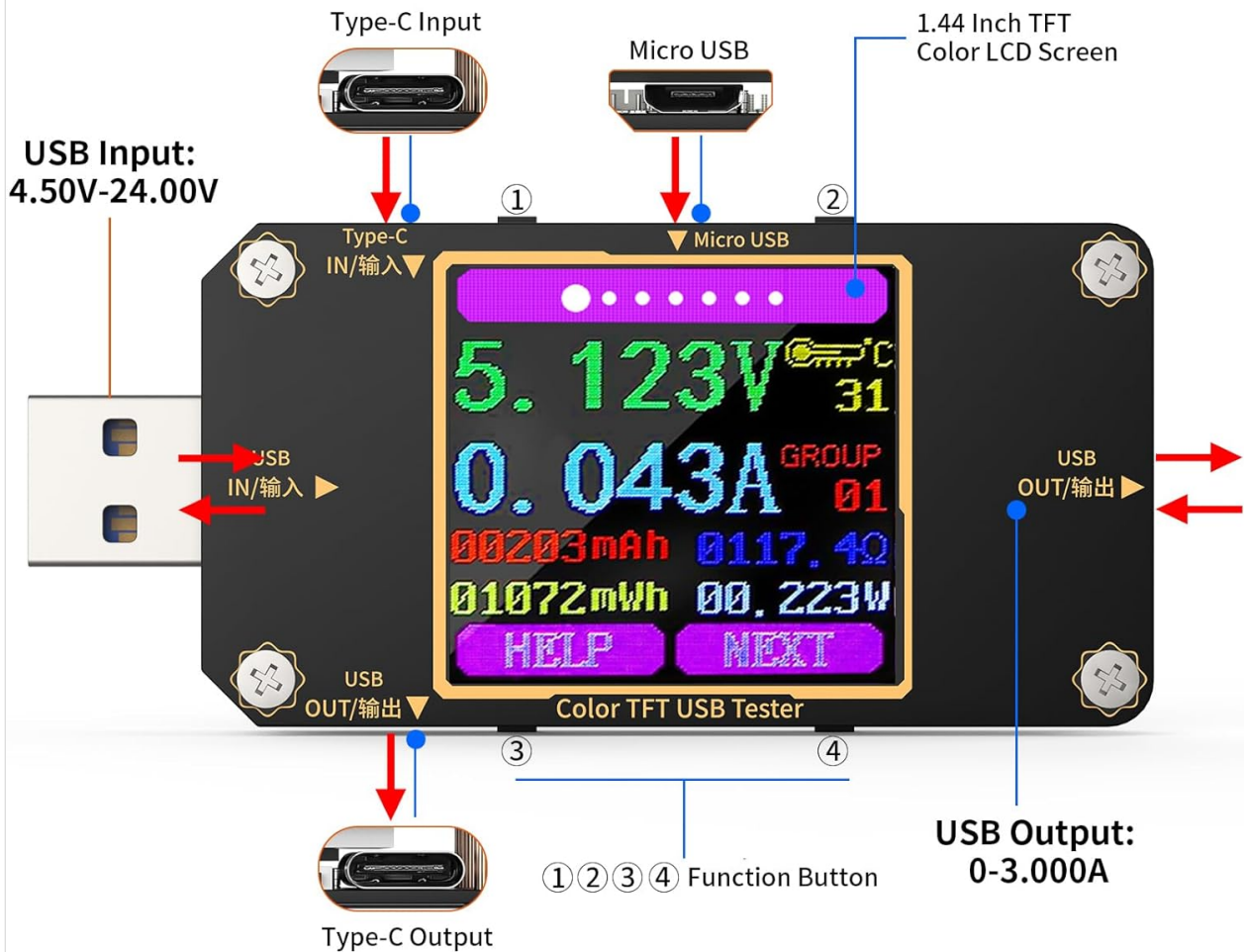**YOJOCK A3**

YOJOCK USB Tester Meter A3 User Manual

Model: A3 | Brand: YOJOCK

1. INTRODUCTION

The YOJOCK USB Tester Meter A3 is a versatile 2-in-1 digital multimeter designed to measure various electrical parameters of USB-A and Type-C connections. It provides real-time data on voltage, current, power, and capacity, and supports fast charge protocol recognition. This manual provides instructions for its proper use and maintenance.

2. PRODUCT OVERVIEW

The device features a compact design with multiple input/output ports and a clear display for easy monitoring.

Image 2.1: Labeled diagram of the YOJOCK USB Tester Meter A3, highlighting its Type-C input, Micro USB input, USB-A input, Type-C output, USB-A output, 1.44-inch TFT color LCD screen, and four function buttons.

Key Components:

- **1.44-inch TFT Color LCD Screen:** Displays measurement data and settings.
- **USB-A Input/Output Ports:** For standard USB-A connections.
- **Type-C Input/Output Ports:** For USB Type-C connections.
- **Micro USB Input Port:** For Micro USB connections.
- **Function Buttons:** Four buttons for navigation and settings adjustment.
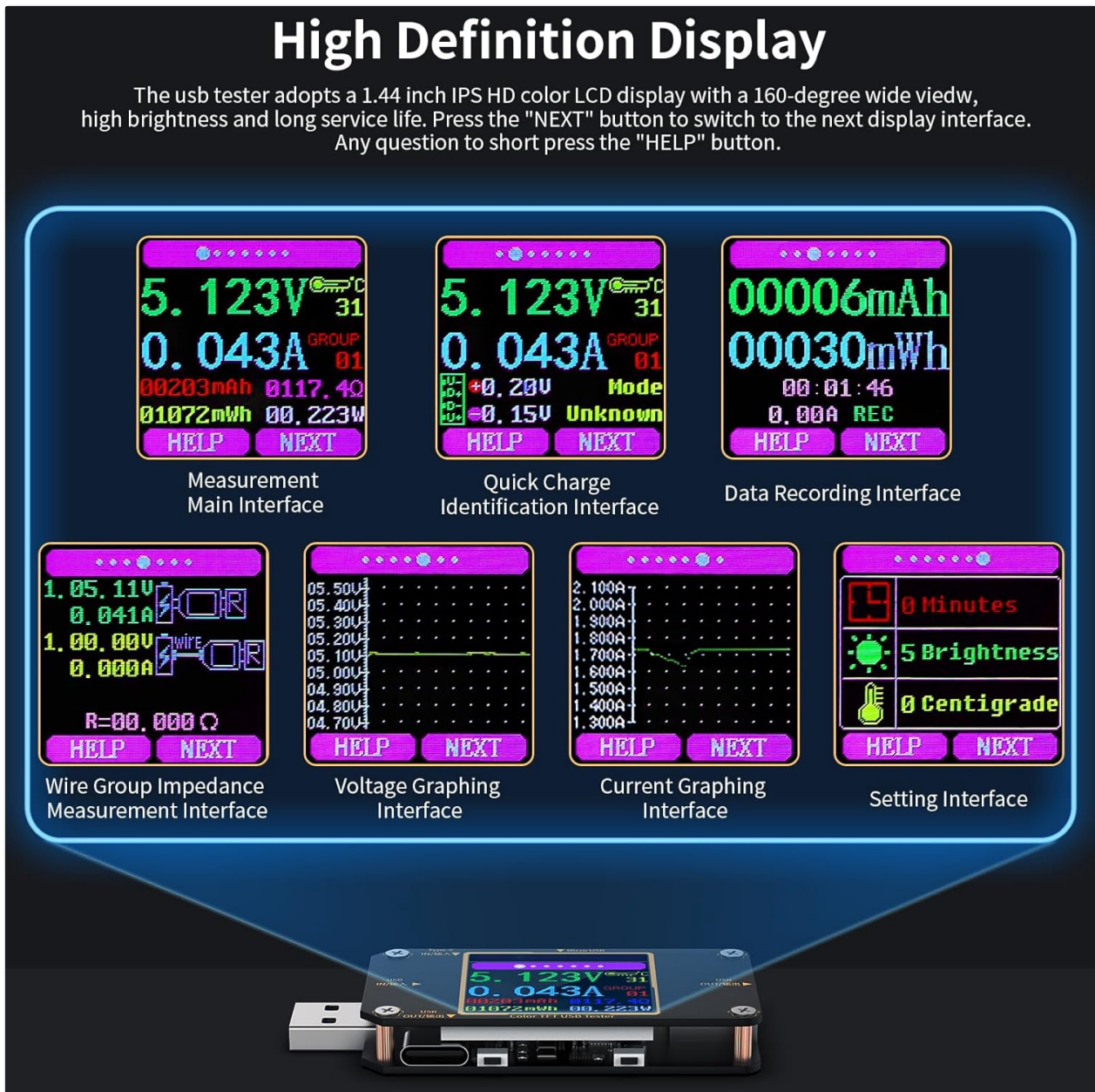
3. SETUP AND CONNECTION

Follow these steps to connect and power on your USB Tester Meter A3.

Connecting the Tester:

1. Identify the appropriate input port (USB-A, Type-C, or Micro USB) on the tester for your power source
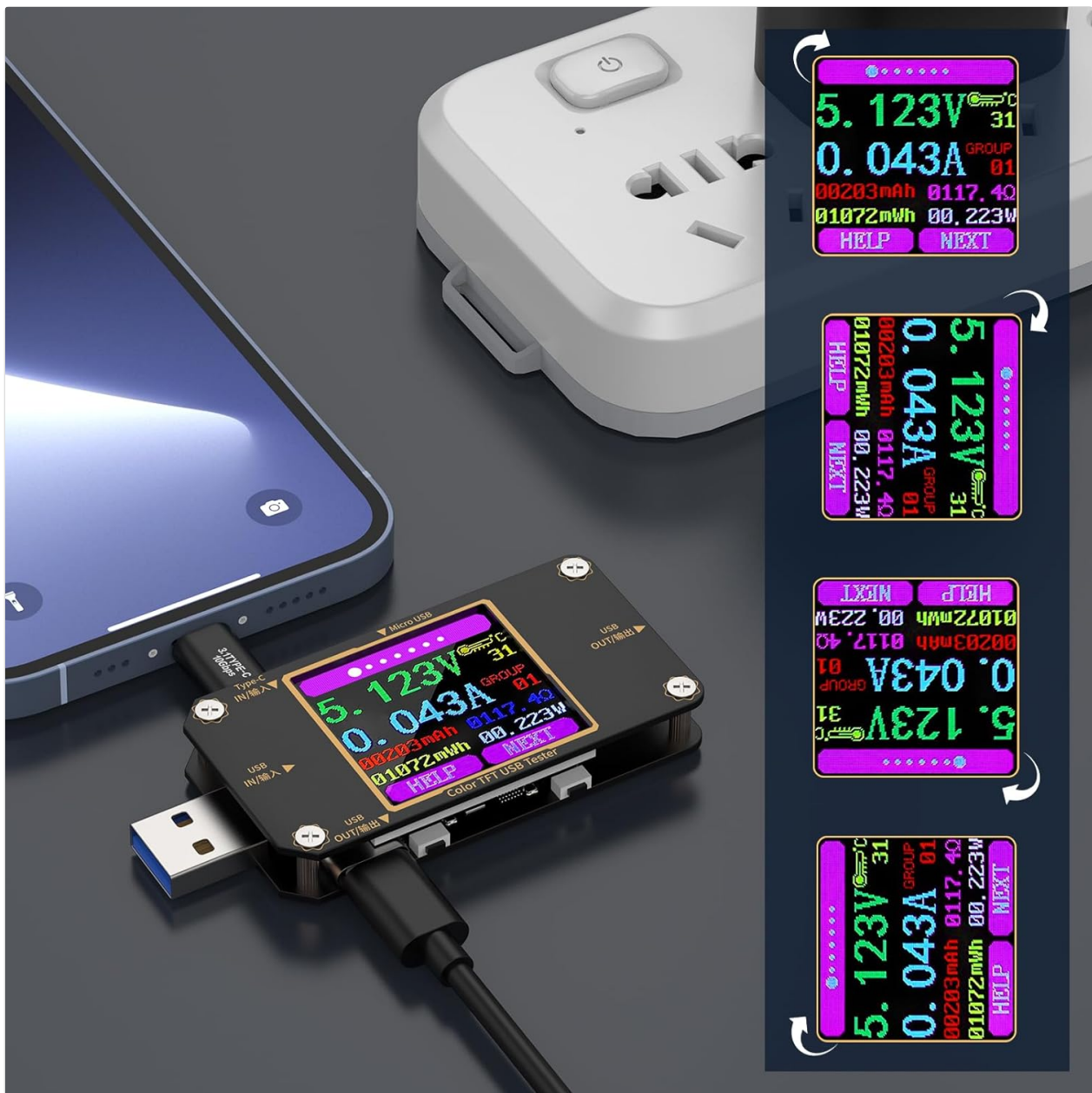
(e.g., wall charger, power bank).

2. Connect the power source to the tester's input port.

3. Connect your device (e.g., smartphone, tablet) to the tester's output port (USB-A or Type-C) using a compatible cable.

High Definition Display

The usb tester adopts a 1.44 inch IPS HD color LCD display with a 160-degree wide viedw, high brightness and long service life. Press the "NEXT" button to switch to the next display interface. Any question to short press the "HELP" button.

Measurement Main Interface

Quick Charge Identification Interface

Data Recording Interface

Wire Group Impedance Measurement Interface

Voltage Graphing Interface

Current Graphing Interface

Setting Interface

Image 3.1: The USB Tester Meter A3 connected between a Type-C charger and a smartphone, demonstrating a typical setup.

Important Notes for Type-C Connections:

- If the display does not light up when using a Type-C connection, try flipping the Type-C cable and re-inserting it. Type-C protocols can be one-sided, and this is normal operation, not a malfunction.

- When using PD (Power Delivery) power, ensure both the charger and the charging device support quick charge protocols. If a PD power source is not connected to a fast-charge device, the tester may not power on by default.

- For some Type-C connections, using the included Type-C accessory (adapter) may be necessary to ensure proper connection and display functionality.

Image 3.2: Illustration of two Type-C connection methods: flipping the Type-C connector or using the provided Type-C accessory to establish a connection and power the display.

4. OPERATING INSTRUCTIONS

The USB Tester Meter A3 features a user-friendly interface with multiple display modes and navigation options.

Display Interface:

The 1.44-inch LCD screen provides a high-definition display with a 160-degree viewing angle. The screen supports 360-degree rotation, allowing for convenient reading at any angle. To rotate the screen, press the button corresponding to the horizontal menu bar.

Image 4.1: Examples of the various display interfaces available on the USB Tester Meter A3, including Measurement Main Interface, Quick Charge Identification Interface, Data Recording Interface, Wire Group Impedance Measurement Interface, Voltage Graphing Interface, Current Graphing Interface, and Setting Interface.

Navigation and Functions:

- **Measurement Main Interface:** Displays real-time voltage (V), current (A), power (W), capacity (mAh), and energy (mWh).

- **Quick Charge Identification:** Recognizes fast charging protocols such as QC 2.0/3.0.

- **Data Recording:** Records accumulated capacity and energy over time.

- **Cable Impedance Measurement:** Allows for the measurement of cable resistance.

- **Voltage/Current Graphing:** Visualizes voltage and current fluctuations over time.

- **Settings Interface:** Adjust display brightness, screen off function, and other parameters.

- **Buttons:** Use the four operation buttons to navigate between interfaces and adjust settings. A short press of the "HELP" button can provide on-screen assistance.

5. APPLICATIONS

The YOJOCK USB Tester Meter A3 is suitable for a wide range of applications involving USB-powered devices.

Common Uses:

- **Charger Performance Testing:** Evaluate the charging speed and quality of wall chargers, car chargers, and solar panel chargers.
- **Cable Quality Assessment:** Measure cable impedance to identify inefficient or faulty charging cables.
- **Power Bank Capacity Verification:** Test the actual capacity and energy output of power banks.
- **Device Charging Monitoring:** Monitor the charging process of various USB devices, including smartphones, tablets, laptops, and other digital gadgets.
- **Troubleshooting:** Diagnose charging issues by observing real-time voltage and current data.
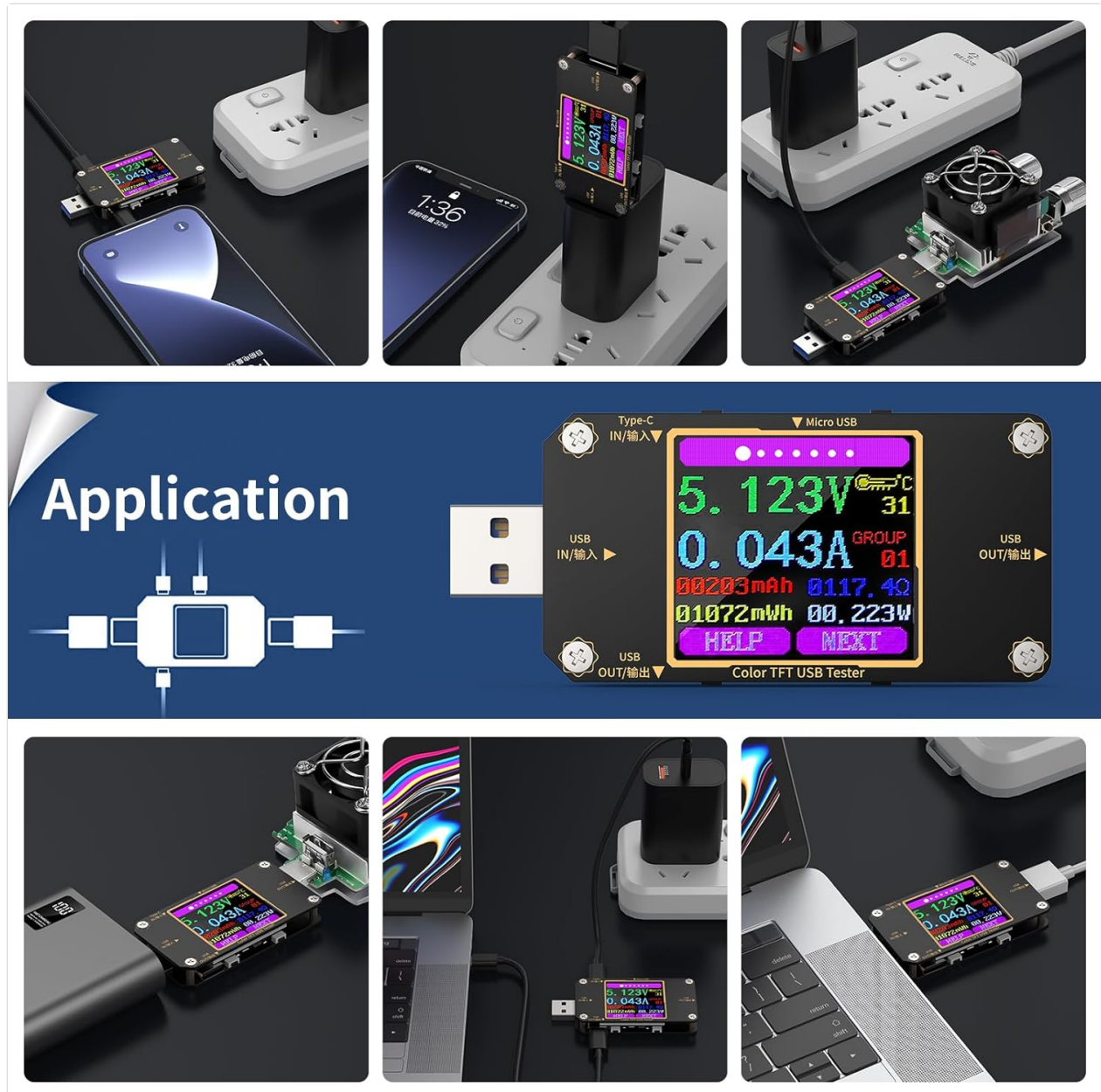

Image 5.1: A collage demonstrating the USB Tester Meter A3 in use with different devices and power sources, including a wall charger, power bank, and laptop, showcasing its versatility.

6. MAINTENANCE

Proper care ensures the longevity and accuracy of your USB Tester Meter A3.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using liquid cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Protection:** The gold-plated USB contacts have a strong coating to prevent scratches and damage. However, avoid unnecessary force when inserting or removing cables.

7. TROUBLESHOOTING

If you encounter issues with your USB Tester Meter A3, refer to the following common solutions.

- **Display Not Lighting Up (Type-C):** If the screen remains blank when connected via Type-C, try flipping the Type-C cable and re-inserting it. Due to the one-sided protocol design, this is a common solution and not indicative of a fault. Ensure both the charger and the device support quick charge if using PD power.
- **Inaccurate Readings:** Ensure all connections are secure and clean. Test with different cables and chargers to isolate the issue.
- **Device Not Charging:** Verify that the power source is active and the charging cable is functional. Check the tester's display for any error messages or unusual readings.

8. SPECIFICATIONS

Feature	Specification
Model Number	FT-A3
Measuring Voltage Range	4.5V - 24.0V
Measuring Current Range	0 - 8.0A
Display	1.44-inch TFT Color LCD Screen
Connectors	USB-A, Type-C, Micro USB
Fast Charge Recognition	QC 2.0/3.0
Dimensions	3.31 x 2.87 x 0.75 inches
Weight	1.41 ounces
Color	Black

9. WARRANTY AND SUPPORT

YOJOCK stands behind its products and offers the following:

- **Warranty:** A hassle-free 18-month warranty is provided in case of product defects.

- **Customer Service:** Friendly customer service is available to assist with any inquiries or issues.

For support, please refer to the contact information provided with your product packaging or visit the official YOJOCK website.

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