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diymore U-18

diymore U-18 USB Tester Meter User Manual

Model: U-18

1. Introduction

The diymore U-18 USB Tester Meter is a versatile diagnostic tool designed for monitoring and analyzing USB power delivery. It provides real-time data on voltage, current, power, capacity, and supports various fast charging protocols. This manual provides instructions for the proper setup, operation, and maintenance of your device.

2. Safety Information

- Do not expose the device to moisture or extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the device. Unauthorized modifications may void the warranty and pose safety risks.
- Ensure connections are secure before applying power.
- Operate the device within its specified voltage and current limits to prevent damage.

3. Product Overview

The diymore U-18 features a 1.77-inch TFT color LCD screen for clear data display and multiple input/output ports for broad compatibility.

Figure 3.1: diymore U-18 USB Tester Meter showing its various ports and functionalities.

Figure 3.2: Detailed diagram illustrating the input/output ports and control keys of the U-18 tester.

Key Features:

- **1.77-inch TFT Screen:** High-definition display for real-time monitoring of charging data.
- **Multi-functional Interfaces:** Seven distinct display interfaces for various data presentations.
- **Fast Charging Protocol Support:** Compatible with PD, QC2.0, QC3.0, and other protocols.
- **Comprehensive Data Display:** Shows voltage, current, power, energy, capacity, and fast charging protocol status.
- **Cable Internal Resistance Measurement:** Utilizes the voltage drop method to calculate cable resistance.

4. Setup

4.1 What's in the Box

- diymore U-18 USB Tester Meter

4.2 Initial Connection

To begin using the U-18 USB Tester Meter, connect it inline between your power source (charger, power bank) and the device you wish to test.

1. Connect the USB-A Input (4V-24V) or Type-C Input port of the U-18 to your power source.
2. Connect the USB-A Out (0-6.5A) or Type-C Output port of the U-18 to your device (e.g., smartphone, tablet, laptop).
3. The display will automatically power on and begin showing real-time measurement data.

5. Operating Instructions

5.1 Basic Measurement Display

Upon connection, the tester will display key parameters on its 1.77-inch TFT screen.

Figure 5.1: The tester's display showing voltage, current, power, energy, capacity, and fast charging protocol information.

- **Voltage Display:** Shows the real-time voltage (V).
- **Current Display:** Shows the real-time current (A).
- **Power Display:** Shows the real-time power (W).
- **Energy Statistics:** Accumulates total energy consumed (Wh).
- **Capacity Statistics:** Accumulates total charge capacity (Ah).
- **Fast Charging Protocol Display:** Indicates detected fast charging protocols (e.g., PD, QC2.0, QC3.0).

5.2 Navigating Display Interfaces

The U-18 offers 7 types of display interfaces. Use the**KEY -** and **KEY +** buttons (labeled 2 and 3 in Figure 3.2) to cycle through different display modes and settings.

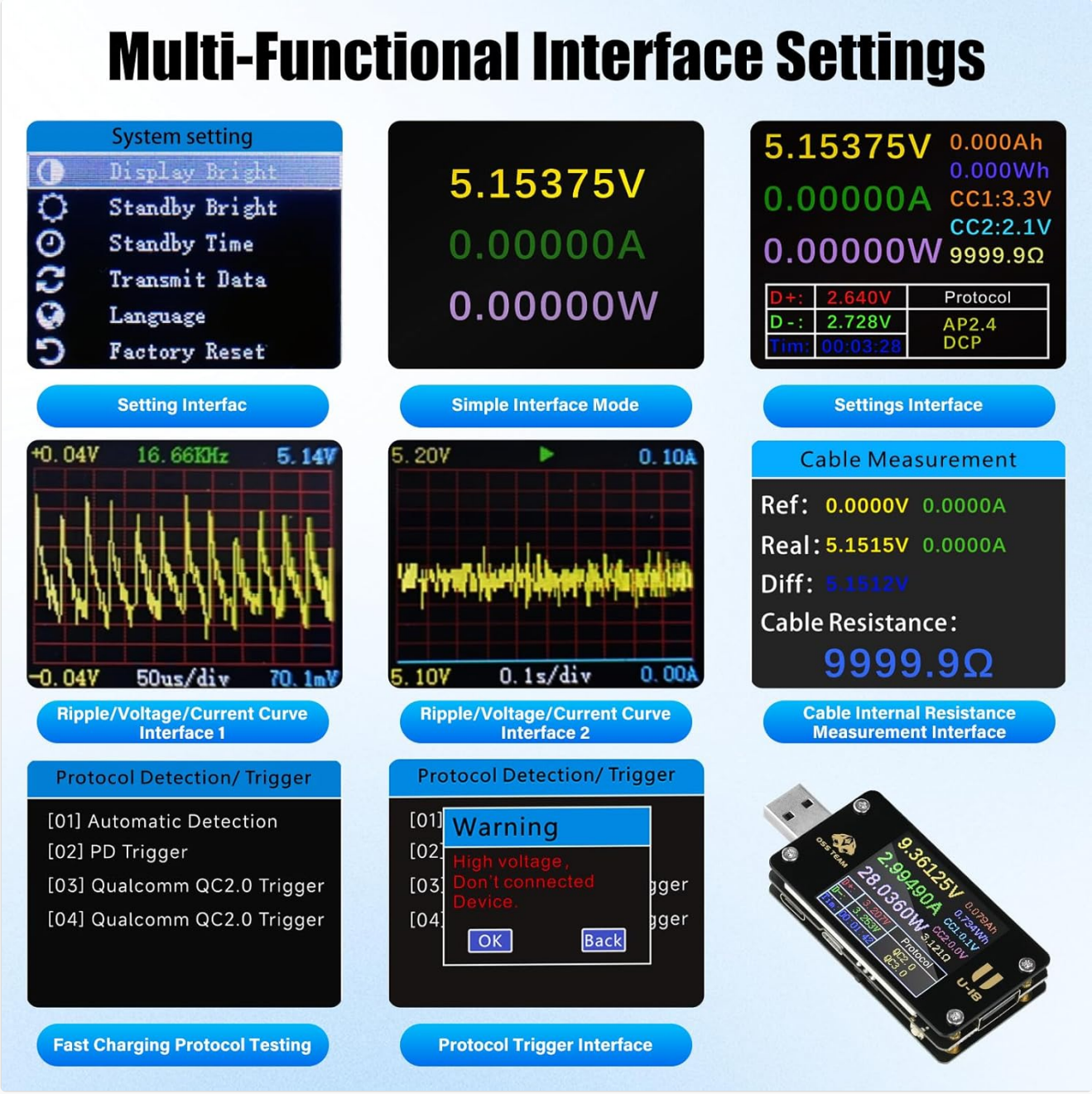

Figure 5.2: Examples of various display interfaces, including system settings, simple measurement, detailed settings, ripple measurement, and protocol detection.

5.3 Cable Internal Resistance Measurement

This feature allows you to assess the quality of your USB cables.

Figure 5.3: The tester connected to a power source and device, displaying cable resistance measurement.

1. Connect the U-18 to a power source.
2. Navigate to the "Cable Measurement" interface (refer to Figure 5.2).
3. Connect the cable you wish to test between the U-18's output and a load (e.g., a device drawing current).
4. The system will automatically calculate and display the cable's internal resistance. A lower resistance indicates a better quality cable.

5.4 Display Orientation

To toggle the display orientation, long-press the **KEY +** button (labeled 3 in Figure 3.2).

6. Maintenance

- Keep the device clean and dry. Use a soft, dry cloth to wipe the screen and casing.
- Avoid using abrasive cleaners or solvents.
- Store the device in a cool, dry place when not in use.

7. Troubleshooting

- **No Display:** Ensure the tester is properly connected to a power source and a load. Check if the power source is active.
- **Inaccurate Readings:** Verify that all connections are secure. Ensure the power source and load are functioning correctly. Readings can be affected by poor quality cables or unstable power sources.
- **Device Not Charging:** Check the connections between the tester, power source, and device. Ensure the power source is providing sufficient power.
- **Cable Resistance Reads 9999.9Ω:** This typically indicates an open circuit or a very poor connection in the cable being tested. Re-check cable connections.

8. Specifications

Product Specifications

Indicators	Mileage	Resolution	Accuracy
Monitor voltage	4~24V	0.00001V	±(0.2‰+2)
Monitor current	0~6.5A	0.00001A	±(0.5‰+2)
Monitor power	0~156W	0.00001W	±(0.5‰+2)
D+/D- Voltage	0~3.3V	0.001V	±(1.0‰+2)
Capacity	0~9999.99Ah	0.00001Ah	—
Electricity consumption	0~9999.99Wh	0.00001Wh	—
Cable internal resistance	0~9999.99Ω	0.0001 Ω	—
Running time of equipment	99 days 23:59:59	1 Second	—
Record time	1900/2/10 15:59:59	1 Second	—

Figure 8.1: Detailed product specifications for the diymore U-18 USB Tester Meter.

diymore U-18 USB Tester Meter Specifications

Parameter	Range	Resolution	Accuracy
Monitoring Voltage	DC 4-24V	0.00001V	± (0.2%+2)
Monitoring Current	0-6.5A	0.00001A	± (0.5%+2)
Monitoring Power	0-156W	0.00001W	± (0.5%+2)
D+/D- Voltage	0-3.3V	0.001V	± (1.0%+2)
Capacity	0-9999.99AH	0.00001Ah	-
Power Consumption	0-9999.99WH	0.00001Wh	-
Cable Internal Resistance	0-9999.9Ω	0.000001Ω	-
Equipment Runtime	99 days 23:59:59 seconds	1 second	-
Recording Time	999:59:59	1 second	-

- **Dimensions:** 2.56 x 1.38 x 0.49 inches
- **Item Weight:** 1.41 ounces (0.04 Kilograms)
- **Power Source:** Battery Powered (internal, charged via USB connection)
- **Measurement Type:** Multimeter

9. Warranty

This product comes with a standard manufacturer's warranty. Please refer to the product packaging or contact diymore customer support for specific warranty terms and conditions.

10. Support

For technical assistance, troubleshooting, or further inquiries, please contact diymore customer support through the retailer's platform or the official diymore website.

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