YOJOCK 2303C

YOJOCK 360W USB C Tester Type-C Digital Multimeter User Manual

Model: 2303C

1. PRODUCT OVERVIEW

The YOJOCK 360W USB C Tester is a versatile digital multimeter designed to monitor and test the performance of USB-C power delivery systems. It provides real-time data on voltage, current, power, capacity, energy, temperature, and charging time, making it an essential tool for evaluating chargers, power banks, and various USB-C devices.
Key features include:

- **Comprehensive Measurement:** Detects voltage, current, capacity, electrical quantity, power, temperature, and charging time.
- **Upgraded Curve Function:** Records real-time voltage and current with adjustable display times (5/15/60 minutes, 2 hours).
- **Wide Protocol Recognition:** Supports PD2.0/3.0, QC2.0/3.0, FCP, SCP, AFC, PE, DASH VOOC, and Super VOOC charging protocols.
- **Data Storage:** Power-off memory function saves capacity and energy data.
- **Wide Applicability:** Equipped with a stable 12A high current port, measuring current from 0-12A and voltage from 4V-30V.

2. SETUP AND CONNECTION

To begin using your YOJOCK USB C Tester, follow these simple steps:

1. Identify the USB-C input port (usually marked 'IN' or with an arrow pointing towards the device) and the USB-C output port (usually marked 'OUT' or with an arrow pointing away from the device) on the tester.
2. Connect your power source (e.g., wall charger, power bank) to the USB-C input port of the tester.
3. Connect your device (e.g., smartphone, laptop) to the USB-C output port of the tester using a compatible USB-C cable.
4. Ensure all connections are secure. The tester's screen will illuminate and begin displaying real-time data once power is detected.

パワーバンクの容量テスト

容量の計算：WH/バッテリー電圧、例えば、バッテリー電圧3.7Vとテスト35Whの
ショーは式です。35WH/3.7V = 9.46AH = 9460MAH
注：完全に充電した後、弱い電流が蓄積し続けることができます
したがって、データを良い時間に保存します

Image: The USB C Tester connected between a wall charger and a smartphone, displaying real-time charging data.

12A大電流をサポートします

12Aは最高の電流であり、常にこの状態にとどまることはできないことに注意してください

Image: The USB C Tester's display illuminates when both input and output ports are connected, indicating active measurement. The display remains off if only one port is connected.

3. OPERATING INSTRUCTIONS

The USB C Tester features a clear display and intuitive controls for monitoring various electrical parameters.

3.1. Display Modes

The tester cycles through different display pages, showing various data points. Use the physical button on the device to switch between these pages. Common display pages include:

- **Main Display:** Shows real-time voltage (V), current (A), and power (W).
- **Capacity/Energy Display:** Shows accumulated capacity (mAh) and energy (Wh).
- **Temperature Display:** Shows the internal temperature of the tester.
- **Curve Display:** Visualizes real-time voltage and current changes over time.
- **Protocol Recognition:** Indicates the detected fast charging protocol (e.g., PD, QC).

Image: The USB C Tester displaying detailed real-time data including voltage, current, power, and temperature, with a visual representation of the curve function.

3.2. Using the Curve Function

The upgraded curve function allows for detailed monitoring of voltage and current fluctuations. To access and configure it:

1. Navigate to the curve display page using the button.
2. Long-press the button to enter the curve settings.
3. Select the desired display time for the curve (5 minutes, 15 minutes, 60 minutes, or 2 hours).
4. The tester will then graphically display the real-time voltage and current changes over the selected period.

Image: The USB C Tester actively measuring real-time voltage and current, demonstrating its capability to monitor charging parameters within a 0-12A current and 4-30V voltage range.

3.3. Data Reset

To clear accumulated capacity and energy data, navigate to the capacity/energy display page and long-press the button until the values reset to zero. This is useful for starting new measurements.

4. FEATURES

The YOJOCK USB C Tester is equipped with several advanced features to enhance its utility:

- **Real-time Monitoring:** Continuously displays voltage, current, and power, allowing users to observe charging

performance dynamically.

- **Protocol Detection:** Automatically identifies various fast charging protocols, providing insight into the charging capabilities of connected devices and power sources.

- **Power-off Memory:** Retains the last recorded capacity and energy data even after being disconnected, ensuring data integrity for long-term tests.

- **High Current Support:** Designed to handle up to 12A, accommodating high-power charging scenarios.

- **Bidirectional Current Measurement:** Capable of measuring current flow in both directions, which is normal for self-consumption current when connected in reverse.

Image: The USB C Tester showing support for various charging protocols including Huawei FCP/SCP, QC 2.0/3.0, PD 2.0/3.0, Samsung AFC, PE, PPS, DASH VOOC, and Super VOOC, with a maximum current support of 12A.

Image: The USB C Tester showcasing its broad compatibility with a range of USB-C devices, including laptops, wall chargers, smartphones, and power banks.

双方向電流測定

逆接続を使用する場合、荷重なしで表示される小さな
電流値は、マシンの自己消費電流です。これは正常です

Image: An infographic illustrating the USB C Tester's core functionalities: screen rotation, data storage, precise measurement, capacity and energy detection, wide current range, and temperature measurement, with maximum ratings of 30V, 12A, and 360W.

5. SPECIFICATIONS

Parameter	Value
Brand	YOJOCK
Model Number	2303C
Color	Silver
Measurement Voltage Range	4V - 30V
Measurement Current Range	0 - 12A
Maximum Power	360W
Package Dimensions	8.2 x 7.4 x 1.9 cm
Item Weight	40 g
Batteries Included	No

6. MAINTENANCE

To ensure the longevity and accurate performance of your USB C Tester, please observe the following maintenance guidelines:

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the tester to extreme temperatures or direct sunlight.
- Do not drop or subject the device to strong impacts.
- Store the tester in a safe place when not in use to prevent damage to the ports or screen.

7. TROUBLESHOOTING

If you encounter issues with your YOJOCK USB C Tester, refer to the following common troubleshooting steps:

- **No Display:** Ensure both the input (power source) and output (device) are correctly connected. The tester requires both to be connected to power on.
- **Inaccurate Readings:** Verify that the cables used are in good condition and support the expected power levels. Try using different cables or power sources.
- **Device Not Charging:** Check all connections. Ensure the power source is active and the device is functioning correctly. The tester itself should not prevent charging if properly connected.
- **Screen Frozen:** Disconnect the tester from all power sources and devices, then reconnect it.

If problems persist, please contact customer support.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or contact YOJOCK customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.