

UM24C

Ruideng UM24C USB 2.0 Color Screen Tester User Manual

Model: UM24C

INTRODUCTION

The Ruideng UM24C is a versatile USB 2.0 color screen tester designed for monitoring voltage, current, power, and battery capacity. Equipped with Bluetooth connectivity, it allows for real-time data viewing and analysis via an Android application, making it an essential tool for electronics enthusiasts, technicians, and anyone needing precise USB power measurements.

SAFETY INFORMATION

- Do not exceed the maximum voltage and current ratings specified for the device.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Keep the device away from liquids and corrosive materials.
- Do not attempt to disassemble or modify the device, as this may void the warranty and pose safety risks.
- Ensure proper ventilation when in use to prevent overheating.

PRODUCT OVERVIEW

The UM24C features a vibrant color LCD screen for clear data display and intuitive navigation buttons. It includes standard USB-A input and output ports for easy connection to various devices.

Components

- **USB Input Port:** Connects to the power source (e.g., charger, power bank).
- **USB Output Port:** Connects to the device being charged or tested.
- **Color LCD Screen:** Displays real-time measurement data.
- **Navigation Buttons:** Used to cycle through display modes and settings.
- **Bluetooth Module:** For wireless connection to the Android APP.



Figure 1: Front view of the Ruideng UM24C USB Tester, displaying real-time voltage (05.09V) and current (0.000A) measurements, along with temperature and accumulated capacity (mAh, mWh) on its color screen. The USB input and output ports are visible.



Figure 2: Rear view of the Ruideng UM24C USB Tester, showing the green casing and the "USB Meter" branding. This view highlights the compact design of the device.

SETUP

1. Initial Connection:

Connect the USB input port of the UM24C tester to a USB power source (e.g., wall charger, power bank, computer USB port).

2. **Connect Device:**

Connect the device you wish to test or charge (e.g., smartphone, tablet, USB fan) to the USB output port of the UM24C tester.

3. **Power On:**

The UM24C will automatically power on and display real-time data on its color screen once connected to a power source.

4. **Android APP Setup (for Bluetooth models):**

- Download the official Ruideng APP from the manufacturer's website or a trusted app store.
- Enable Bluetooth on your Android device.
- Open the Ruideng APP and search for the UM24C device. Pair with the device (default PIN is usually 1234 or 0000 if prompted).
- Once connected, you can view and log data remotely.

OPERATING INSTRUCTIONS

Screen Navigation

Use the navigation buttons on the device to cycle through different display screens, which may include:

- Real-time Voltage (V), Current (A), Power (W)
- Accumulated Capacity (mAh, mWh)
- Temperature (°C)
- Data Grouping and Storage
- Resistance (Ω) Calculation
- Voltage Graphing

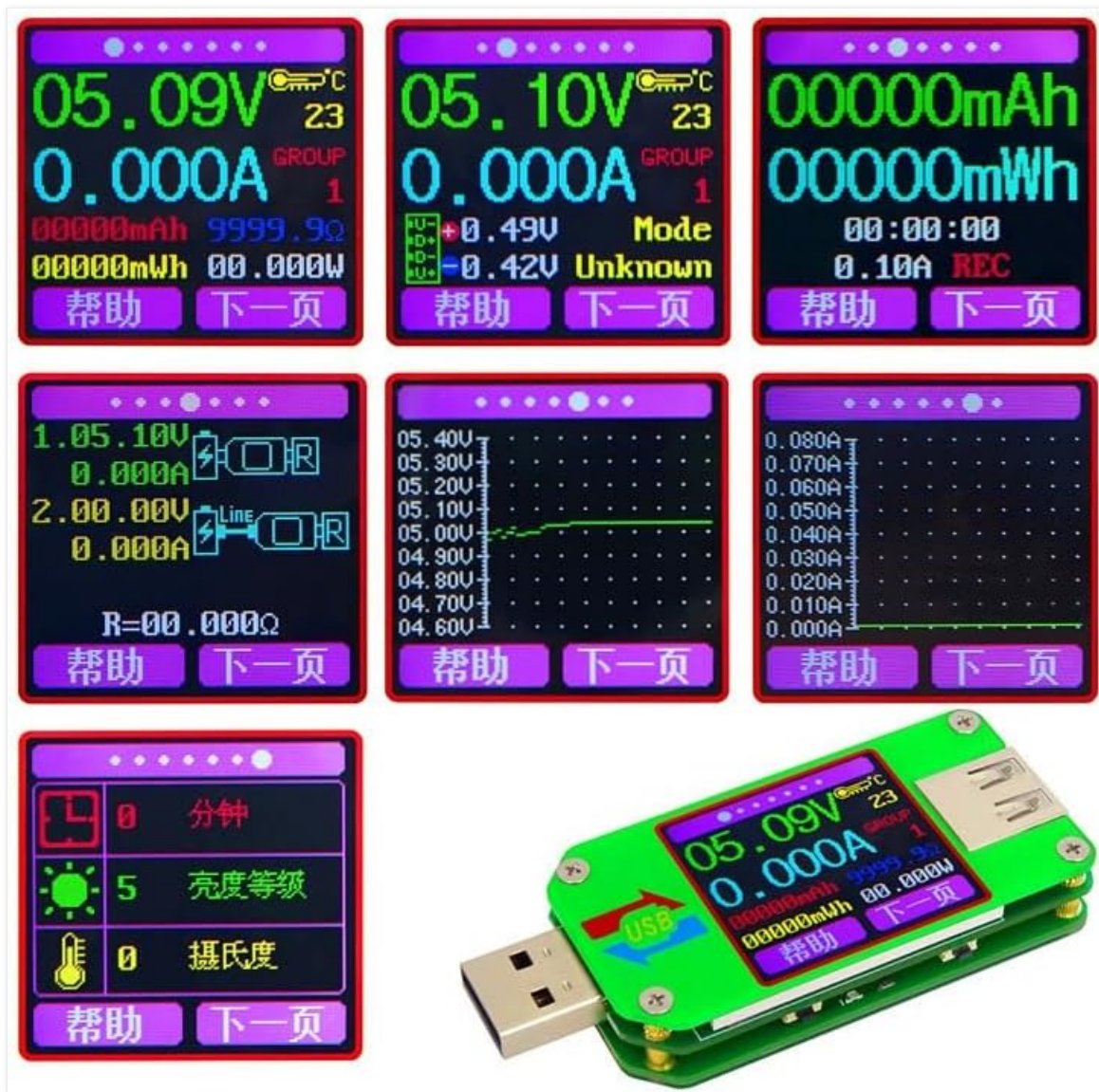


Figure 3: A collage of various screen displays from the Ruideng UM24C, illustrating its multi-functional capabilities including real-time measurements, accumulated capacity, voltage graphing, and resistance calculation. Each screen provides detailed data for comprehensive analysis.

Data Reset

To reset accumulated capacity (mAh/mWh) or other stored data, refer to the specific instructions within the device's menu or the Android APP. Typically, this involves pressing and holding a navigation button or selecting a reset option in the software.

Using the Android APP

The Android APP provides enhanced functionality:

- **Real-time Monitoring:** View all parameters on your phone screen.
- **Data Logging:** Record measurement data over time for analysis.
- **Firmware Updates:** Check for and install firmware updates (if available).
- **Settings Configuration:** Adjust device settings, such as screen brightness or auto-off timer.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Port Care:** Keep the USB ports free of dust and debris.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on.	No power input or faulty connection.	Ensure the USB input is securely connected to a working power source. Try a different power source or cable.
No readings displayed.	No load connected or device not drawing current.	Connect a device that draws power to the output port. Ensure the connected device is powered on.
Bluetooth connection issues.	Bluetooth off, incorrect pairing, or APP issues.	Ensure Bluetooth is enabled on your Android device. Restart the APP and the UM24C. Forget and re-pair the device in Bluetooth settings. Check APP permissions.
Inaccurate readings.	Faulty cable, unstable power source, or device malfunction.	Try different USB cables. Ensure the power source is stable. If issues persist, contact support.

SPECIFICATIONS

Parameter	Detail
Model	UM24C
Connectivity	USB 2.0, Bluetooth (for Android APP)
Display	Color LCD Screen
Measurement Capabilities	Voltage, Current, Power, Battery Capacity (mAh/mWh), Temperature, Resistance
Manufacturer	NUCCON (as per product data)
Part Number	NUCED5C5745E68C90BE96709496AFE323614
Dimensions (Approximate)	Length: 71.2mm, Width: 31.8mm, Height: 11.3mm



Figure 4: Dimensional drawing of the Ruideng UM24C USB Tester, indicating its approximate length (71.2mm), width (31.8mm), and height (11.3mm). This provides a clear understanding of the device's physical size.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product packaging or visit the manufacturer's official website. Warranty terms and conditions may vary depending on your region and point of purchase.

If you encounter issues not covered in this manual, please contact the seller or manufacturer for assistance. Provide your product model (UM24C) and part number (NUCED5C5745E68C90BE96709496AFE323614) when seeking support.