# **UD24 Tester User Manual**



It can be used as a USB tester or as a DC voltmeter. It is a high-end product created by the wisdom of the industry!

UD24 2.4"inch USB tester DC5.5 Type-C digital voltmeter ammeter power bank voltage detector volt QC PD electric meter for APP

# **Product description**

Voltage measurement range: 5V~32.0V

Current measurement range: 0.00~ 5.10A

Timing time: 999 hours 59 minutes 59 seconds

Input interface: Type-C/Micro USB/USB

Output interface: Type-C/USB

Timing charging reminder setting: countdown 24 hours any set value

USB D+ voltage range: 0V~2.99V

USB D- voltage range: 0V~2.99V

Refresh time:> 500mS/ times> 500mS/ times

Measurement rate: about 0.5 times/sec

Alarm mode: siren sound + display prompt double warning

Display type: large screen with true color digital display with heavy cost 2.4 Chinese and English

measurement interface

Self-consumption current: <0.02A

Working temperature: -10~+60°C -10~+60°C

Working humidity: 10~80 (no doubt) 10~80 (no doubt)

Working pressure: 80~106kPa

#### **UD24 Startup screen and function test interface**

- 1.6-digit high-precision interface
- 2.USB Meter Display
- 3.DC Meter Display
- 4.DC Percentage Display



Qualcomm QC3.0/2.0 Quick charge protocol triggers automatic detection of multiple quick charge protocols

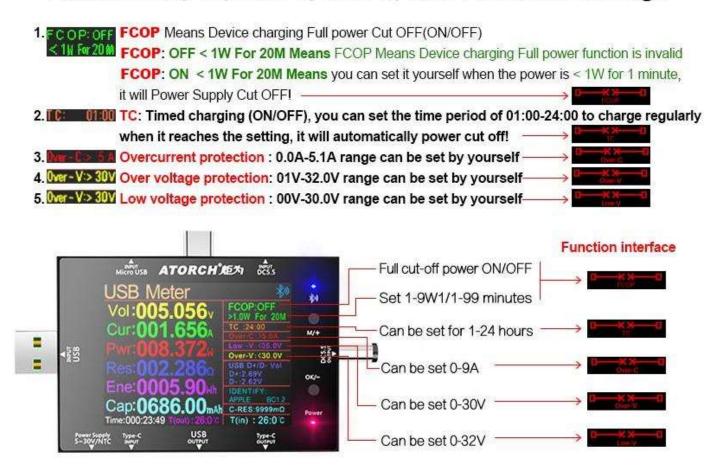


#### Five-fold intelligent protection, safe charging and double safety

According to their actual needs, the user can set the full power-off switch, full power-off parameter conditions, timing charging time, and over-current, over-voltage, low-voltage and other parameters, so that this equipment can be fully automated and unattended according to your needs. The set parameters run automatically, and the real-time monitoring well automatically cuts off the power according to the corresponding settings to protect your charging equipment in all aspects. From then on, your charging becomes more safe, interesting and playable!

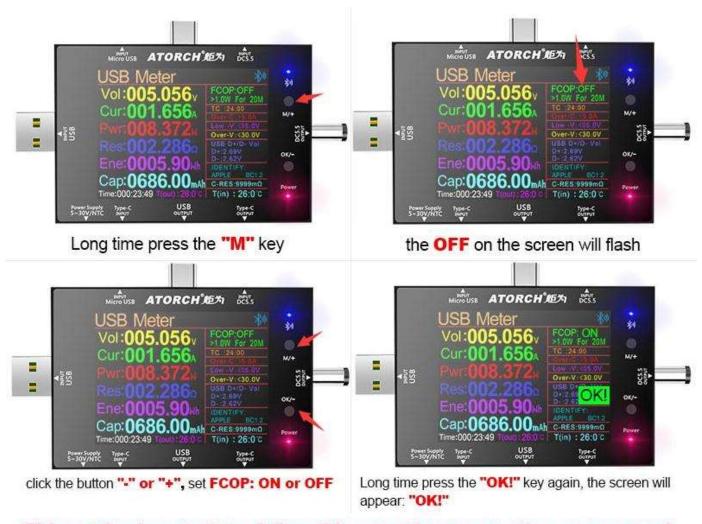
- 1. FCOP: Full power Cut off (ON/OFF), you can set it yourself when the power is < 1W for 1 minute, it will power cut off
- 2. TC: Timed charging (ON/OFF), you can set the time period of 01:00-24:00 to charge regularly, when it reaches the setting, it will automatically power cut off
- 3. Overcurrent protection: you can set the range of 0.0A-5.1A by yourself
- 4. Over voltage protection: 01V-36V range can be set by yourself
- 5. Low voltage protection: 00V-35V range can be set by yourself

# About FCOP, TC, Over-C, Over-V, Low-V Function Settings



# Key button operation

- 1.Long time press the "M" key, the OFF on the screen will flash, click the button "-" or "+", set FCOP: ON or OFF, Long time press the "OK!" key again, the screen will appear: "OK!", the setting is complete!
- 2.Press this operation to set other parameters, wait a few seconds, the screen will appear: "OK!", the setting is complete!
- 3.Or long time press the "M" key, the numbers on the screen will flash, you can freely choose to set the parameters!



This setting is complete, follow this operation to set other parameters!

# 360° rotating screen on all sides satisfies reading at any angle



# **UD24 USB tester use function**





Qualcomm QC3.0/2.0 fast charge protocol trigger Automatic detection off multiple fast charging protocols



# **Support PD fast charge**



# **UD24 line resistance measurement function Support Android/Type-C**

#### cable resistance detection

According to the connection method shown below, first measure the current battery no-load voltage, and then add the output load. At this time, you can read the current battery internal resistance

The internal resistance calculation formula of this table: (no-load voltage-loaded voltage) / current current = battery internal resistance

# **UD24 Line Resistance Measurement Function**

Support Android/Type-C cable resistance detection



# **USB** and Type-C Test Application Range

Connect and test various USB and Type-C interfaces and various battery devicesMulti-port design-multi-use and multi-play!



# **UD24 DC voltmeter use function**





#### **Battery power percentage**

The meter can freely set the battery type according to the user in the background, the corresponding full voltage value and discharge voltage

If there is no low value, the system calculates the percentage according to the threshold set by the user, and then changes the color of the percentage through the battery symbol

Display (more than 30% green, less than 30% yellow, less than 10% red);

When the display range is between 1% and 100%, the POWER red light on the panel lights up, and the relay output interface outputs at this time

The level is used to control the relay to connect the current path. When it exceeds the range of 1%~100%, the red light goes out at the same time

The plug electric appliance outputs a low level to disconnect the current path to ensure the safety protection of the battery for charging and discharging.

People avoid the risk of damaging the battery due to overcharge and overdischarge, and it can also be used for other purposes of overvoltage and low voltage disconnect protection.



# **Battery internal resistance detection function**

According to the connection method shown below, first measure the current battery no-load voltage, and then add the output load. At this time, you can read the current battery internal resistance

The internal resistance calculation formula of this table: (no-load voltage-loaded voltage) / current current = battery internal resistance



# **DC Power Supply Test Application Range**

Connect and test various DC power supplies and equipment Multi-portion design, one thing, multi-use, multiple play



#### 1) Apple Mobile APP:

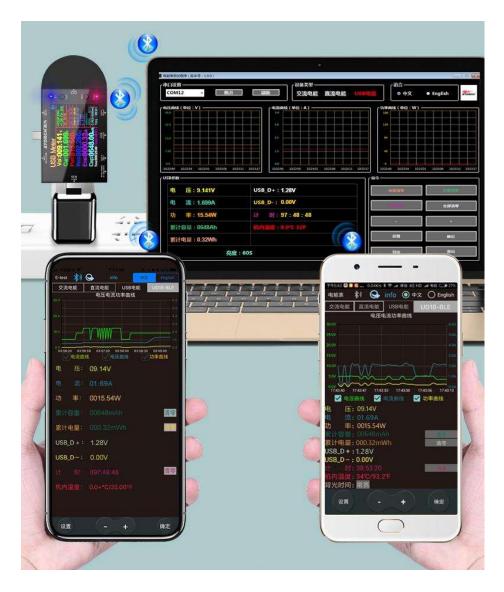
Please search for E\_test in the application store to download and install, then click the Bluetooth APP icon to open the software, and then click the Bluetooth icon above the software to enter the selection DL24-BLE to connect, you can achieve mobile phone remote wireless remote control settings and Measurement function, the discharge status can be viewed at any time on the mobile phone, various data cleaning is visible, the voltage and current power curve of the discharge, etc.

#### 2) Android phone APP:

Scan the QR code on the back of the host to download the corresponding APP software or Android APP: search E-test at Google play to down load. After the installation is complete, open the software and click the Bluetooth icon to enter the direct selection of DL24-BLE to successfully use it online. (No need for Bluetooth pairing, the software Bluetooth icon directly selects DL24. can)

# 3) Computer Bluetooth wireless online APP:

First add the Bluetooth device to the serial port device of DL24-SPP on the computer, then scan the QR code on the back of the host to download the corresponding APP software and store it. Open the software without installing and select the Bluetooth serial port model just added. You can successfully use online



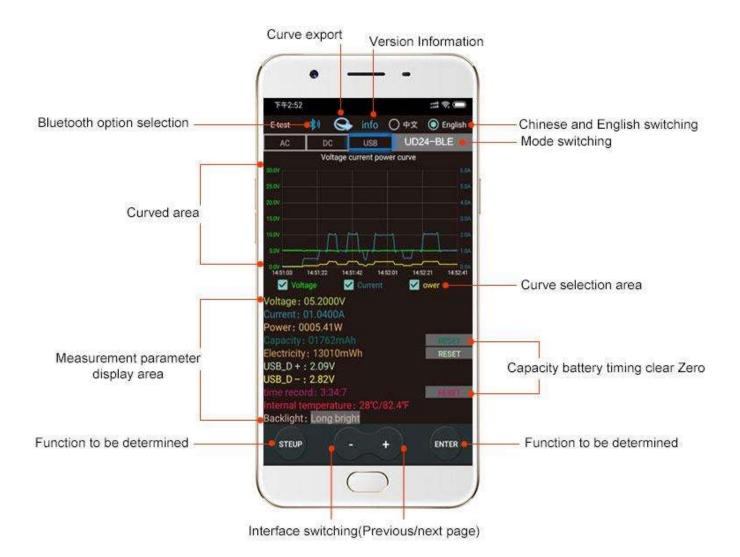
### File Download Way

- 1, User manual, PC software installation instruction and PC software and Android APP download link: http://www.mediafire.com/folder/9r973dly7uvui/UD24
- 2, IOS APP: search E test on iphone APP store to download
- 3. Android APP: search E-test at Google play to down load

#### Mobile APP interface function introduction

Use the mobile phone Bluetooth function to wirelessly connect the product, with the included mobile APP software, Achieve more measurement and control details, leaving measurement technology without boundaries

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# UD24 Tester Bluetooth connection method

1. Please connect the product as shown on the right.



2. Please download the mobile app software, only support Android 5.0 and above.

https://www.mediafire.com/folder/31bc15uhg8odb/E-meter Then install the E-meter APP software on the phone.



3.Bluetooth on the phone needs to be turned on, Then open E-test APP on the phone





When the USB tester is powered on, the Bluetooth indicator is flashing, turn on the allow Bluetooth to turn on.





Click the Bluetooth icon in the upper left corner of the APP to pop up the menu for selecting E-test App softare icon . and the USB tester model, UD24-BLE





During the measurement, the upper right corner shows the model currently online. UD24-BLE The bluetooth icon in the upper return to the main APP interface. left corner turns blue, indicating that the measurement is in online communication.

# How to find the Bluetooth symbol in E-Test APP

This operating instruction applies to all the company's Bluetooth products (UD18/DT24/DL24/AT3010/DPT3010/T18... etc.)

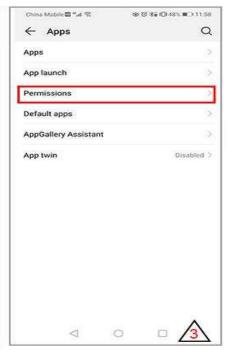
Please open your phone, **Setting**>>find the **Apps**>>manage the **Permissions**>>**Location**>>find our **E-test app**>>find the **storage information** and **location information**>>open the permissions **allow**, you can find us bluetooth symbol in the E-test list.

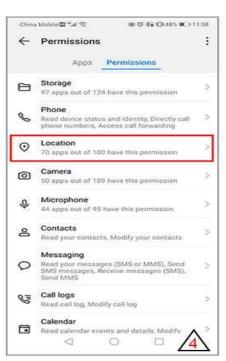


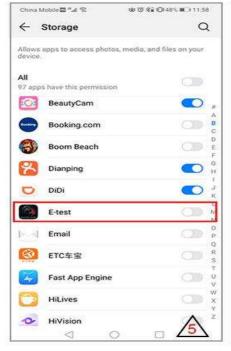
# \Lambda Please open your phone settings

Click settings

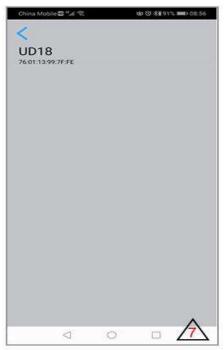






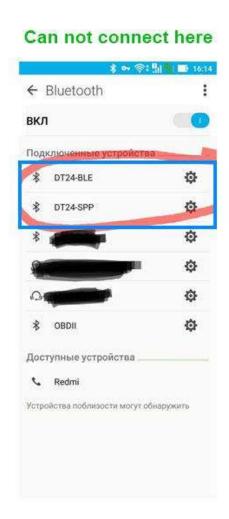






### Warm tips:

Please pay attention to this detail. Do not connect in Bluetooth mode. Do not need password pairing. Please connect in our E-test app.





# Product background parameter setting

UD 24 Menu V5.7

01:Chinese English

02:Clear cumulative data

03: Voltage calbration:005,110V

04: Current calibration: 000.000A

05: Display Brightness:9

06: Standby Brightness:9

07: Enter Standby Time: 60S

08: Temp Correction ([n) 026.9

09: Temp Correction ou):035.6C

10: BAT Vol percentage (Low): 08.00V

11: BAT Yol percentage (Ful): 16.60V

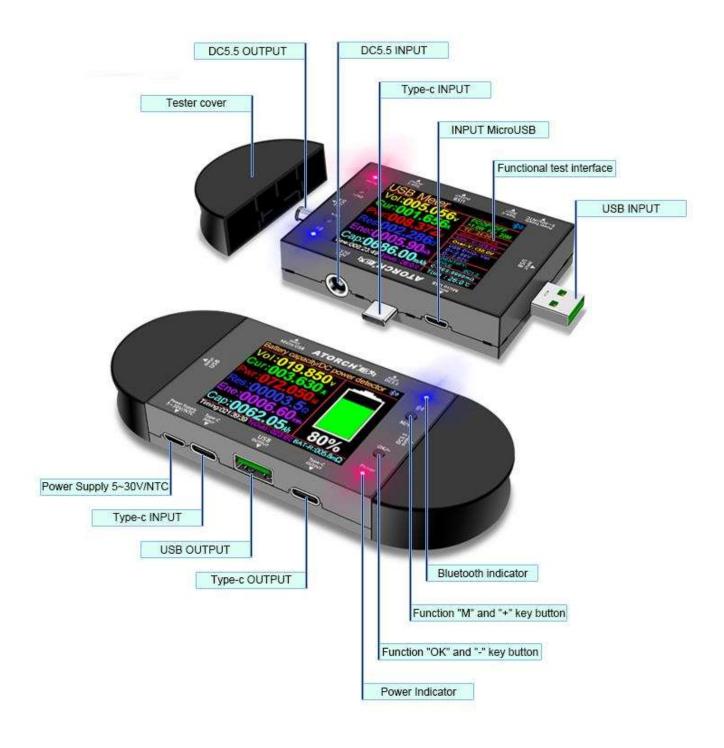
12: Over-Power: 100W

13: Default Seltings

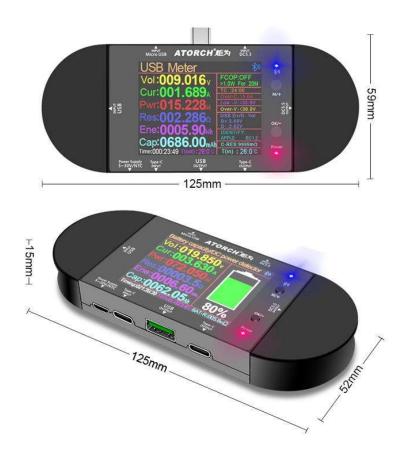
14: Exit

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UD 24 Menu V5.7
02: Clear cumulative data
03: Voltage calibration: 005.110V
04: Current calibration: 000.000A
05: Display Brightness: 9
06: Standby Brightness: 9
07: Enter Standby Time: 60S
08: Temp Correction (In): 026.9°C
    : Temp Correction (Out):035.6°C
    :BAT Vol percentage (Low):08.00V
    :BAT Vol percentage (Full): 16.60V
12: Over - Power : 100W
 13: Default Settings
14: Exit
```

# Introduction to each part of the product



# **Product Size**



# Product packaging

