Manuals+ — User Manuals Simplified.

Hangzhou Ruideng Technology UM25 USB Tester with Full Colour Display Instructions
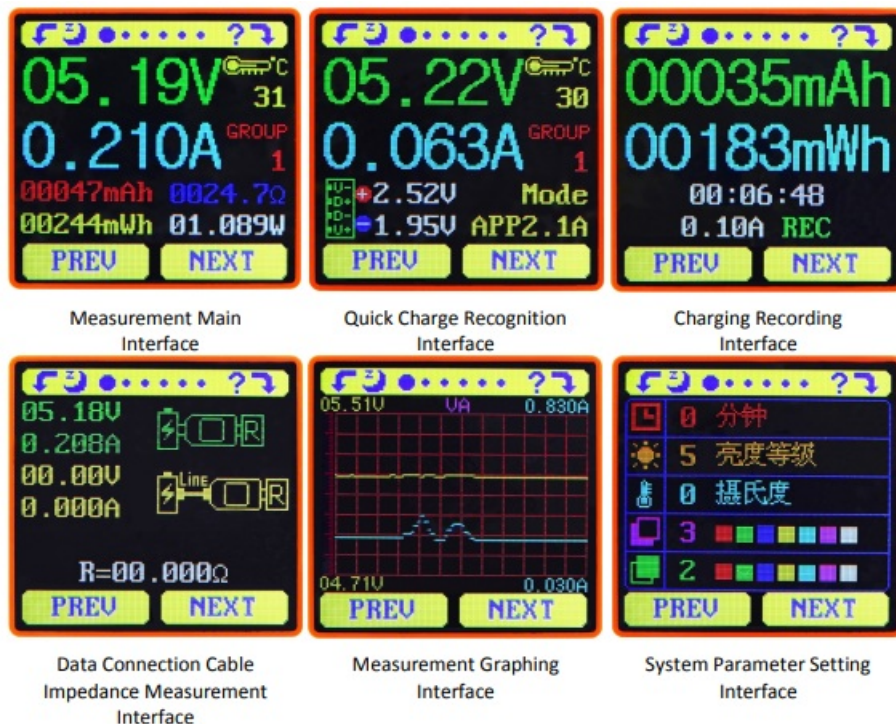
Contents

Hangzhou

Hangzhou Ruideng Technology UM25 USB Tester with Full Colour

Technical Parameters

- Model: UM34/UM34C Display screen 1.44 Inch color LCD display
- Voltage measurement range:4-24.00V Voltage measurement resolution:0.01V
- Current measurement range: 0-4.000A Current measurement resolution: 0.001A
- Capacity accumulation range: 0-99999mAh Voltage measurement accuracy:± 0.2 +1digit
- Energy accumulation
- range:0-99999mWh-999.99Wh
- Current measurement accuracy:± 0.8 +3digits
- Load impedance range: 0.8Ω-9999.9Ω Time measurement range:0-99h59min59s
- Temperature range:-10℃~100℃/0℉~200℉ Temperature measurement error:± 3℃/ ± 6℉
- Screen brightness setting: Levels 0-5 Delay-off the screen time 0-9minutes
- Voltage graphing range: 4-24.00V Current graphing range:0-4.000A
- Product weight:22.87g(UM34C)/18.39g (UM34) Refresh rate: 2Hz
- (No packaging);51.43g(UM34C)/46.95g (UM34)(With packaging)
- Dimensions:71.2mmx30.5mmx12.4mm(UM34C)/71.2mmx30.5mmx11.3mm(UM34)

Function Interfaces

| Measurement Main Interface | Quick Charge Recognition Interface | Charging Recording Interface |

| Data Connection Cable Impedance Measurement Interface | Measurement Graphing Interface | System Parameter Setting Interface |

The Core Function

- USB 3.0 port Quick Charge Recognition
- Android Phone APP Control With Chinese and English help interface
- Data Record and Store Capacity/Energy Detection
- Differential Voltage Method Measurement Data
- Connection Cable Impedance
- Load connecting detection function (screen auto
- off, plug the load, screen auto lighting)

Device Layout

- Micro USB Port
- Multifunction buttons (4)
- Bluetooth Switch
- USB 3.0 A Female Port
- USB 3.0 A Male Port
- Type-C Input Port (Only VBUS GND CC1 CC2 four wires)
- Type-C Input interface (only for measuring the internal resistance of USB-to-TYPE-c line)
- 1.44 Inch Color Screen
- Bluetooth Indicator: When connected to the host computer control software, the Bluetooth indicator changes from flashing to steady-state. When connecting, the Bluetooth icon is displayed on the screen. (Bluetooth communication version only).

Interface Prompt Representing Functions

1. Press and hold the key to rotate the Screen Left
2. Press the key to close the screen
3. Press the key to open the help interface
4. Press and hold the key to rotate the screen right
5. Press PREV to the previous page
6. Press Next to next page

Operating Instructions

When the unit is first powered on the welcome screen is displayed followed shortly by the main interface screen. Hidden interface: Pressing any button whilst powering on the module will display four options. Option 1 selects the Chinese Interface and option 2 selects the English interface. The third option is to reset after reset, system setting data was restored to the factory setting, all the stored data was not reset , The four option is to zero the Current reading (Ensure there is no load connected to the unit). Release the button at the desired selection. Pressing and holding the button after stepping to the four options will exit the hidden interface. Interface 1: Main Measurement Interface. (As shown below)

1. Voltage Measurement
2. Current Measurement
3. Accumulated Capacity
4. Accumulated Energy

5. Temperature Measurement

Welcome Interface   Hidden Interface

6. Number of the Data groups in use
7. Load Equivalent Impedance
8. Power Measurement

Press the ' ? ' button to enter the interface as shown above: Press and hold the 'NEXT' button to switch Data Group. The USB tester can provide a total of 10groups of data to save and view. These are numbered 0-9. With Data Groups 1-9 selected the current mAh and mWh are saved after power off. They will continue accumulating the next time the tester is powered on. When the data group selected is 0 then the current value of mAh and mWh will be temporarily saved at power off. When the device is next powered on these values will be recalled and will begin flashing. When the accumulated mAh exceeds 1 mAh, the previous data will be cleared and accumulation will restart.With a Data Group selected, press and hold the 'PREV' button to clear the mAh and mWh. (As shown) Press 'NEXT' to switch to the Quick Charge Recognition Interface. Interface 2: Quick Charge Recognition Interface

9. D +: (DP) data positive signal level.
10. D-: (DM), data negative signal level.
11. Mode display The product will automatically identify a device with a supported fast charging mode. At this time the device supports the QC2.0 QC3.0 APPLE 2.4A/2.1A/ 1A/0.5A Android DCP SAMSUNG.(Note: This quick charge agreement recognition model is for reference only, because cell phone updated quickly, it can't be absolutely accurate identification Press 'NEXT' to switch to the Charging Recording Interface. Interface 3: Charging Recording Interface

12. Accumulated Capacity
13. Accumulated Energy
14. Time display The total accumulated recording time.
15. Capacity/Energy statistics trigger current
16. REC recording status indicator. 'REC' displayed in red indicates that recording is stopped. 'REC'displayed in green indicates that recording is in progress. After power on, when the current flowing is greater than the Low Current trigger value. Thesystem automatically begins to record the accumulated capacity, energy, and time

elapsed. The 'REC' indicator will change from red to green. To set the Current trigger value, press and hold the "Next" button to highlight the value thenpress the 'PREV' button to adjust the value as required. The value can be set anywhere between 0.01A- and 0.30A. (10mA to 300mA). Press "Next" button to switch to the Data Connection Cable impedance Measurement Interface.


Interface 4: Data Connection Cable Impedance Measurement Interface.

1. USB Tester directly connected to the power supply with Voltage and Current values displayed
2. USB Tester connected via a data connection cable with Voltage and Current values displayed.
3. Data Connection Cable resistance. Measurement procedure: First, connect the USB Tester directly to the power supply and adjust the appropriate load current (recommended value 1A) . Press and hold the 'NEXT' button to begin recording data. The indicator prompt will stop flashing . Second, unplug the USB Tester and then reconnect it to the power supply via the Micro USB/Type-C IN data connection cable and adjust the load current to the same value as in the first step. Press and hold the 'NEXT' button to begin recording data. The indicator prompt stops flashing and the Data Connection Cable resistance measurement test is completed and the value

displayed.Note: If during the second step the screen turns black, this indicates that the voltage difference is too high and the tester will enter the 4V power-down state. The load current needs be reduced. Then re-start the measurement from the first step. After the Data Connection Cable resistance test is completed, the Tester needs to be powered off and then on again to resume measurement. Press the 'NEXT' button to switch to the Measurement Graphing Interface.
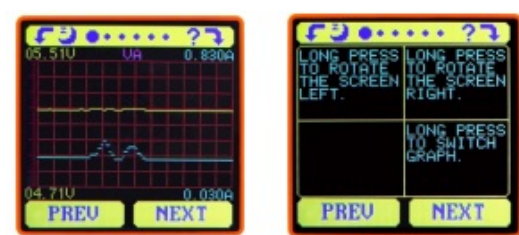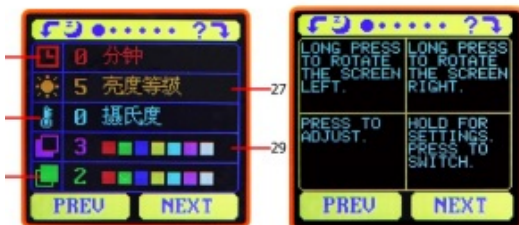

me to account for current fluctuations.

hing, as picture
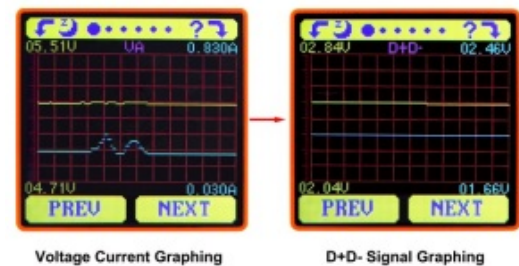
Voltage Current Graphing   D+D- Signal Graphing

Interface 5: Measurement Graphing Interface

This interface displays the voltage measurement over time in the 4-24V range and will automatically adjust the displayed range in real time to account for voltage fluctuations. And the current measurement over time in the 0-5.000A range will automatically adjust the display range in real-time to account for current fluctuations. Press and hold "NEXT" to switch to D+D- graphing, as picture this interface displays the D+ /D- voltage measurement over time in the 0-3.3V range and will automatically adjust the displayed range in real time to account for D+/Dvoltage fluctuations. Press the 'NEXT' button to switch to thesystem parameter setting interface. Interface 6: System Parameter Setting Interface

4. Auto screen off time
5. Screen brightness
6. temperature display C /F
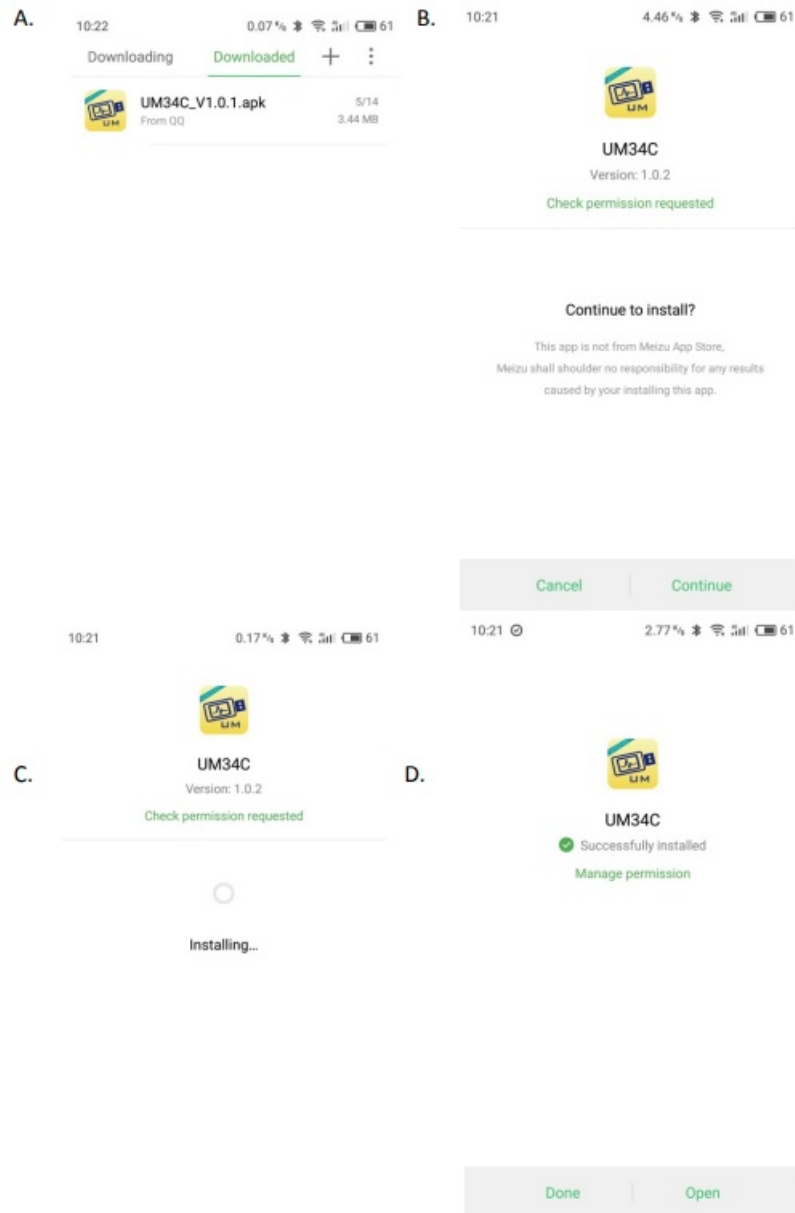7. Theme background-color
8. Theme foreground color

Press and hold the "Next" button to enter into the setting state, press the "NEXT" button to step through the options of auto screen off time, brightness level, temperature display units, themebackground color and theme foreground color. Stop on the value you wish to change then press the "PREV" button to change the setting. For auto screen off time setting press 'PREV' to repeatedly step through the 10 options from 0 to 9 minutes. The default time is 1 minute. For the screen brightness setting, press 'PREV' to repeatedly step though the 6 options from 0 to 5 where 0 is the lowest brightness level and 5 is the highest. The default brightness is 4.For the temperature display units, pressing the 'Next' button toggles the setting between C and F. default temperature unit is C. For the theme background color, press 'PREV' to repeatedly step though the 7 options from 0 to 6 where the color sequence is red, green, blue, yellow, light blue, pink, white and black. Default color is 2, blue.For theme foreground color, press 'PREV' to repeatedly step though the 7 options from 0 to 6 where the color sequence is red, green, blue, yellow, light blue, pink, white and black. Default color is 6, white. At any setting state, press and hold the 'Next' button to exit the settings menu.

Instruction

APP Installation:

UM25C android APP file to download, you can use the computer to download , then sent thephone, or use the phone download directly.
1.2 Open the installation package

A.

10:22   0.07 %₄ ✱ 🛜 📶 ▭ 61

Downloading   **Downloaded**   +   ⋮

🟨 UM34C_V1.0.1.apk   5/14
From QQ   3.44 MB

B.

10:21   4.46 %₄ ✱ 🛜 📶 ▭ 61

🟨

UM34C

Version: 1.0.2

Check permission requested

Continue to install?

This app is not from Meizu App Store,
Meizu shall shoulder no responsibility for any results
caused by your installing this app.

Cancel   │   Continue

C.

10:21   0.17 %₄ ✱ 🛜 📶 ▭ 61

🟨

UM34C

Version: 1.0.2

Check permission requested

◯

Installing...

D.

10:21 ⊘   2.77 %₄ ✱ 🛜 📶 ▭ 61

🟨

UM34C

✅ Successfully installed

Manage permission

Done   │   Open

 After Installation APP icon as the picture

2.1 Click the APP icon. After the APP is started, the system will automatically check whether the APP version is updated in the background. The pop-up box of the new version will remind you of the update.
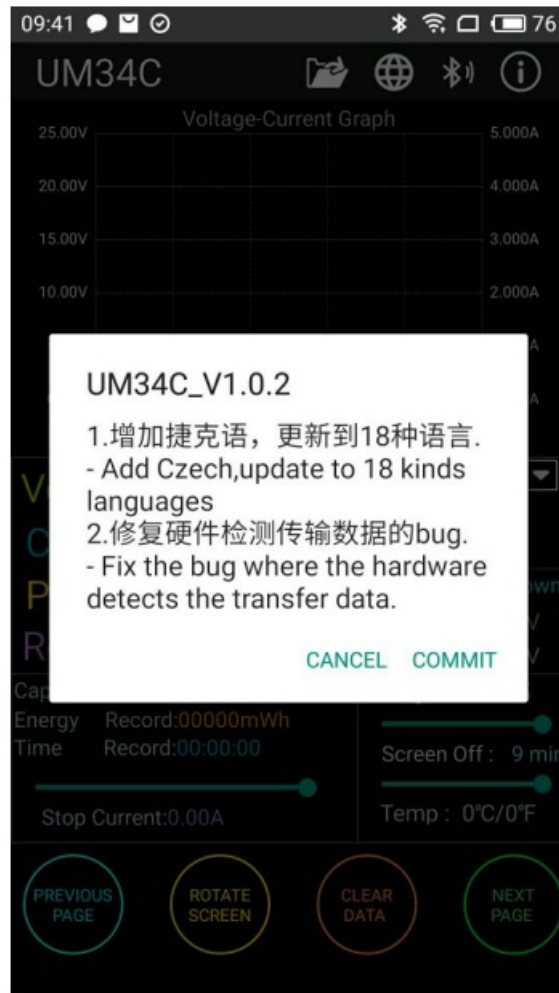
After the update, the main interface of the APP will display as follows:

Label	Content
1	(folder/export icon)
2	En
3	(bluetooth icon)
4	(i)

UM34C

Voltage-Current Graph

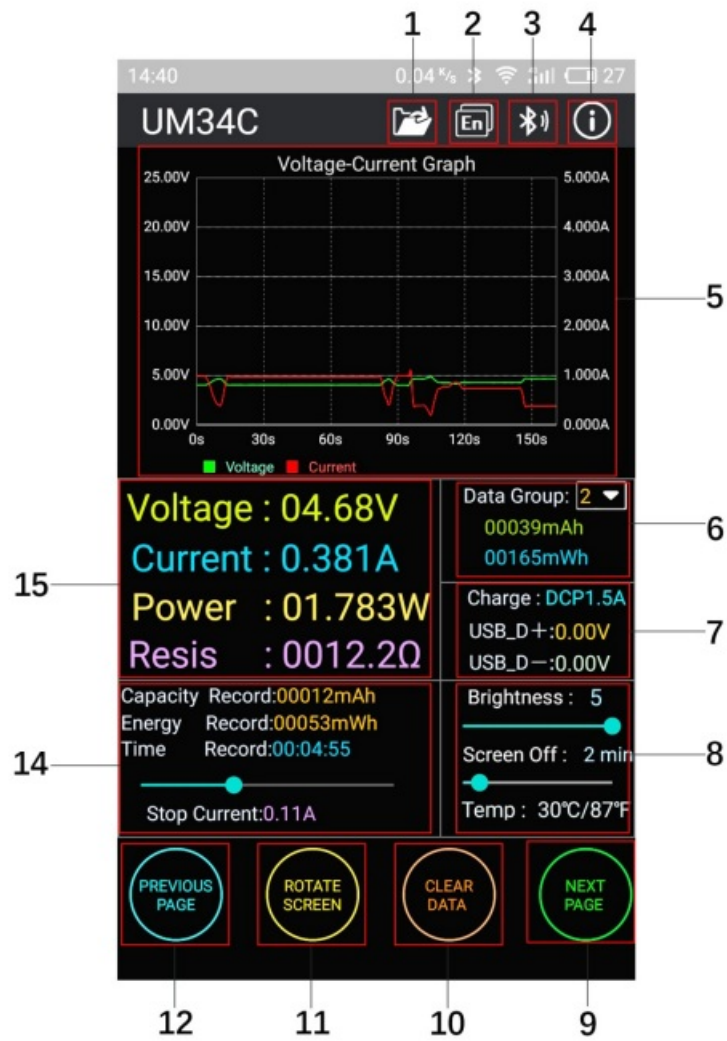|	
25.00V	5.000A
20.00V	4.000A
15.00V	3.000A
10.00V	2.000A
5.00V	1.000A
0.00V	0.000A

0s 30s 60s 90s 120s 150s

■ Voltage ■ Current

5

15

Voltage : 04.68V
Current : 0.381A
Power : 01.783W
Resis   : 0012.2Ω

6
Data Group: 2 ▼
00039mAh
00165mWh

7
Charge : DCP1.5A
USB_D+:0.00V
USB_D—:0.00V

14
Capacity Record:00012mAh
Energy   Record:00053mWh
Time   Record:00:04:55
Stop Current:0.11A

8
Brightness : 5
Screen Off : 2 min
Temp : 30℃/87℉

12 PREVIOUS PAGE
11 ROTATE SCREEN
10 CLEAR DATA
9 NEXT PAGE

Export data to the mobile phone folder   phone SD card root director, repeat to write, generate graph directly in the excel.

UM34C

	A	B	C	D	E	F
1					Voltage-Current	
2	Time	Voltage(V)	Current(A)	D+(V)	D-(V)	Date
3	14:37:54	0.403	0.0986	0	0	2018-05-14
4	14:37:55	0.403	0.0985	0	0	2018-05-14
5	14:37:56	0.403	0.0985	0	0	2018-05-14
6	14:37:57	0.403	0.0982	0	0	2018-05-14
7	14:37:58	0.403	0.0976	0	0	2018-05-14
8	14:37:59	0.411	0.0909	0	0	2018-05-14
9	14:38:00	0.422	0.0802	0	0	2018-05-14
10	14:38:01	0.439	0.065	0	0	2018-05-14
11	14:38:02	0.452	0.0532	0	0	2018-05-14
12	14:38:03	0.462	0.0439	0	0	2018-05-14
13	14:38:04	0.466	0.0401	0	0	2018-05-14
14	14:38:05	0.465	0.0407	0	0	2018-05-14
15	14:38:06	0.445	0.0592	0	0	2018-05-14
16	14:38:07	0.419	0.0831	0	0	2018-05-14
17	14:38:08	0.404	0.0972	0	0	2018-05-14
18	14:38:09	0.403	0.0974	0	0	2018-05-14
19	14:38:10	0.404	0.0973	0	0	2018-05-14
20	14:38:11	0.404	0.0973	0	0	2018-05-14
21	14:38:12	0.404	0.0973	0	0	2018-05-14
22	14:38:13	0.404	0.0973	0	0	2018-05-14
23	14:38:14	0.404	0.0972	0	0	2018-05-14
24	14:38:15	0.403	0.0972	0	0	2018-05-14
25	14:38:16	0.403	0.0972	0	0	2018-05-14
26	14:38:17	0.403	0.0972	0	0	2018-05-14
27	14:38:18	0.404	0.0973	0	0	2018-05-14
28	14:38:19	0.404	0.0972	0	0	2018-05-14
29	14:38:20	0.404	0.0972	0	0	2018-05-14
30	14:38:21	0.403	0.0972	0	0	2018-05-14
31	14:38:22	0.404	0.0973	0	0	2018-05-14
32	14:38:23	0.404	0.0972	0	0	2018-05-14
33	14:38:24	0.404	0.0973	0	0	2018-05-14
34	14:38:25	0.404	0.0972	0	0	2018-05-14
35	14:38:26	0.404	0.0972	0	0	2018-05-14
36	14:38:27	0.404	0.0973	0	0	2018-05-14
37	14:38:28	0.404	0.0973	0	0	2018-05-14
38	14:38:29	0.404	0.0972	0	0	2018-05-14
39	14:38:30	0.404	0.0972	0	0	2018-05-14
40	14:38:31	0.404	0.0972	0	0	2018-05-14
41	14:38:32	0.403	0.0973	0	0	2018-05-14
42	14:38:33	0.404	0.0973	0	0	2018-05-14
43	14:38:34	0.403	0.0972	0	0	2018-05-14
44	14:38:35	0.404	0.0973	0	0	2018-05-14
45	14:38:36	0.404	0.0973	0	0	2018-05-14
46	14:38:37	0.404	0.0973	0	0	2018-05-14

1. Multiple language choice, click this to select language. More languages continue to be updated.
2. Bluetooth connection: click this to select the device, search this device bluetooth name, select it and enter pair code (0000 or 1234), click connection (if you can't search UM24C bluetooth name, ou
3. YOn connect the bluetooth on the phone bluetooth, then open APP to connect directly)
4. Procedural information the version number, the assist personnel information
5. Voltage-current measurement dual graph
6. Corresponding the main display interface 1: accumulated mAh, accumulated mWh.
7. Corresponding the main display interface 2: quick charge recognition, D+ D- data signal wire voltage
8. Corresponding the main display interface 6: Screen brightness adjustment: press and hold the slider to adjust. Off the screen time adjustment: press and hold the slider to adjust Temperature display: Celsius/ Fahrenheit
9. Switch to next page
10. clearing key clear current data group to zero
11. Rotation button: control USB tester display to rotate
12. Switch to previous page
13. Corresponding the main display interface 3, mAh and mWh display , time recording, control the slider to adjust the Low Current trigger value.
14. Corresponding the main display interface 1, voltage measurement value, current measurement value, power measurement value, load equivalent load impedance

Note

1. Because there are too many kinds of android phone, so the UI display interface will be different at some brand phone or different scale screen of one brand phone
2. Application access requirements, allowing the necessary permissions when installing (allows the background running, allows to use bluetooth, allowing folder operation, allowed to read the application list); and also set application permissions at phone after installation: allows the background running , allow to be not cleaned after screen locked, allow auto-start and so on
3. Languages selection memory, only at first time you need to select the language when open APP

FCC Statment

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used inaccordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different

  from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. The device has been evaluated to meet general RF exposure requirements. The device can be u sed in portable exposure conditions without restriction

Documents / Resources

[**Hangzhou Ruideng Technology UM25 USB Tester with Full Colour Display**](#) [pdf] Instructions
UM34C, 2A5Y7-UM34C, 2A5Y7UM34C, UM25 USB Tester with Full Colour Display, UM25, UM25C, USB Tester with Full Colour Display

References

- 🖹 **My Files**