USB Cable Tester User Manual

I. Product Introduction

This product is an upgraded USB cable tester independently developed by Treedix. It integrates the basic function testing of data cables, internal cable testing, internal resistance testing, and Type-C eMarker reading functions into one. It is equipped with a large-sized color display screen. You can use AAA battery or Type C 5V power supply.

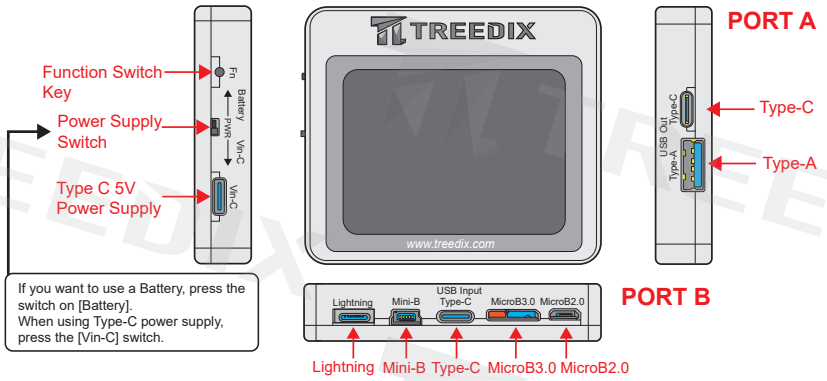
II. Warning

1.Please use the voltage within the range specified in the instruction manual for power supply.
2.Do not place this instrument in places with high humidity, excessive dust,direct sunlight or close to heat sources.
3.If powered by batteries and not used for a long time, please turn it off in time.
4.Do not connect PORTA or PORTB to other devices.
5.Do not test two data cables at the same time.
6.Please replace the batteries in time when the battery power is low.

III. Product Parameter

Display Screen	2.4-inch TFT color screen with LED backlight
Power Supply Method	AAA battery or Type-C 5V
Size	75*65*15mm
Standby Time	The battery can be used for about 8-10 hours

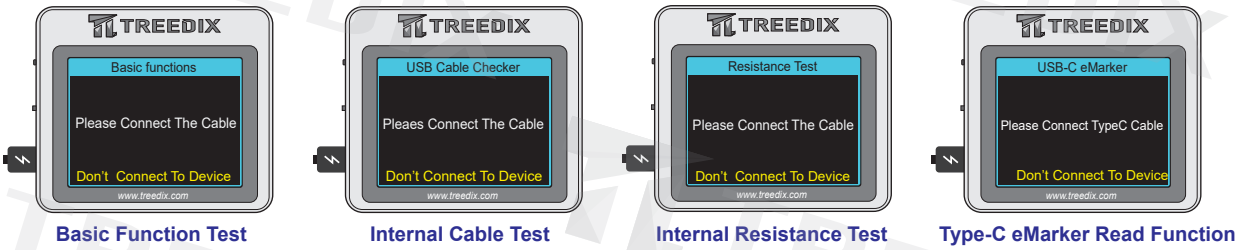
IV. Key Interface Analysis



V. Operation and Page Description

There are four types of functional tests

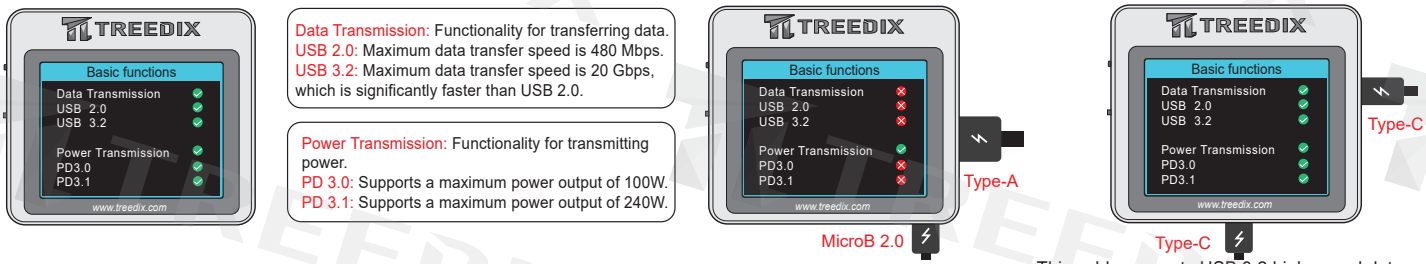
Switch through the function switch key on the left



Basic Function Test | Internal Cable Test | Internal Resistance Test | Type-C eMarker Read Function

1. Basic function test

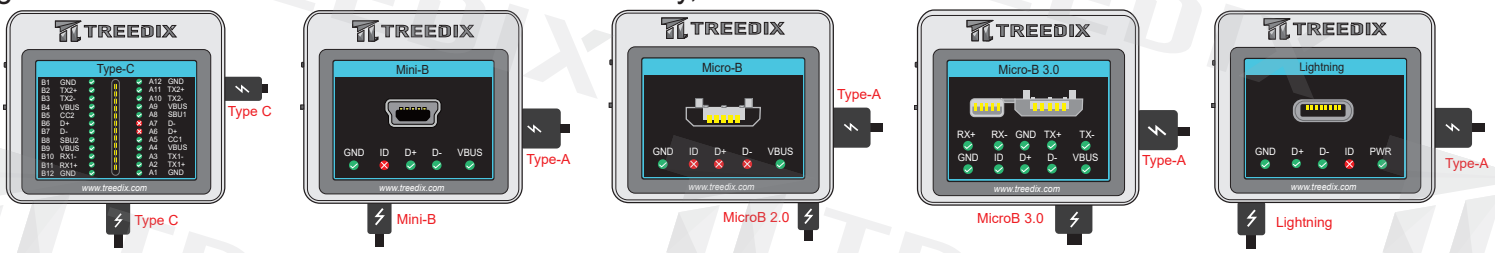
Detect the Data Transmission and Power Transmission functions of the data line, and whether it supports high-speed data transmission functions (USB2.0,USB3.2) and high-speed power transmission functions (PD3.0,PD3.1).



2. Test internal cables

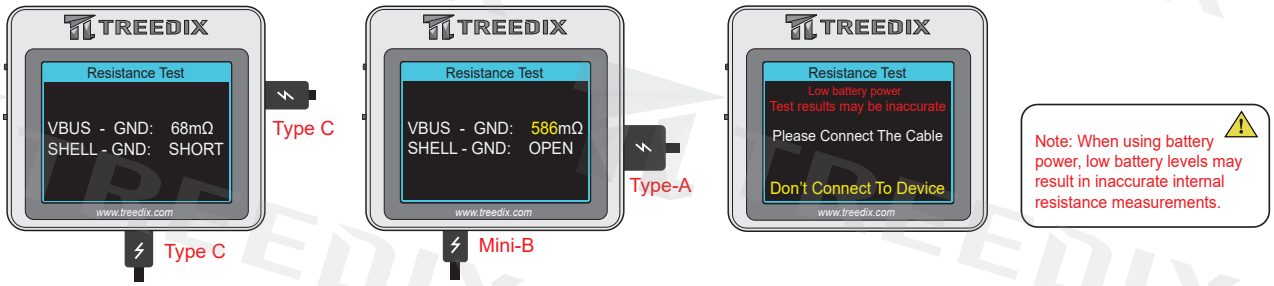
Connect the data line to PORTA and PORTB

The screen shows the corresponding interface of the data cable and the corresponding internal cable. The green indicates cables with this definition internally, red indicates cables without this definition.



3. Internal Resistance Testing

The screen shows the internal resistance of the data cable and whether the data cable housing is grounded.



Note: When using battery power, low battery levels may result in inaccurate internal resistance measurements.

4. Type-C eMarker Read

Detect whether there is an eMarker chip. If present, display the eMarker information. If not, display "No eMarker chip detected".

The eMarker information is as follows:

Wire Type: Active or passive cable, whether TBT3 ,TBT4 or TBT5 is supported.

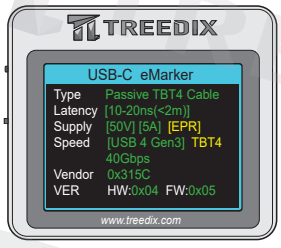
Wire delay: Wire delay and wire length.

Cable support (Supply) : Specifies whether the voltage and current supported by the cable support EPR.

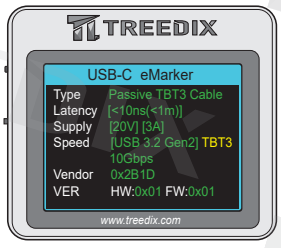
Wire Speed: Whether the cable supports the USB protocol and the transmission speed supports TBT3 ,TBT4 or TBT5.

Cable Vendor: Indicates the number of the cable solution vendor.

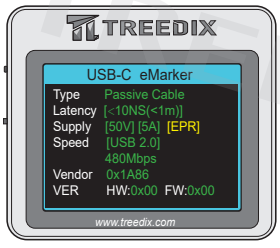
Cable version number (VER) : HW: hardware version FW: software version.



USB4 Thunderbolt 4



USB 4 Thunderbolt 3



USB 2.0

Note: Before using the device for the first time, please be sure to remove the protective film from the battery. This film is for transport protection and must be removed for the device to function properly.

Reference Material:Differences and Development History of USB Versions.

Warning

1.Power Requirements:

This product operates with a DC 5V power supply, connected via a Type-C port. Avoid using high voltage or unstable power sources to prevent damage to the device.

2. Battery use:

Support AAA battery power supply, do not mix different brands or old and new batteries.

3.Operating Environment:

Operating temperature: -10°C ~ 40°C.

Keep the environment dry and avoid exposure to water or other liquids.

4.Prohibited Actions:

This product is only intended for testing USB data cables and should not be used for any other purposes.

5.Disposal:

Please comply with local regulations for the proper disposal of used batteries and electronic devices.

Compliance Declaration:

This product complies with CE (European Union) and FCC (United States) safety standards.