
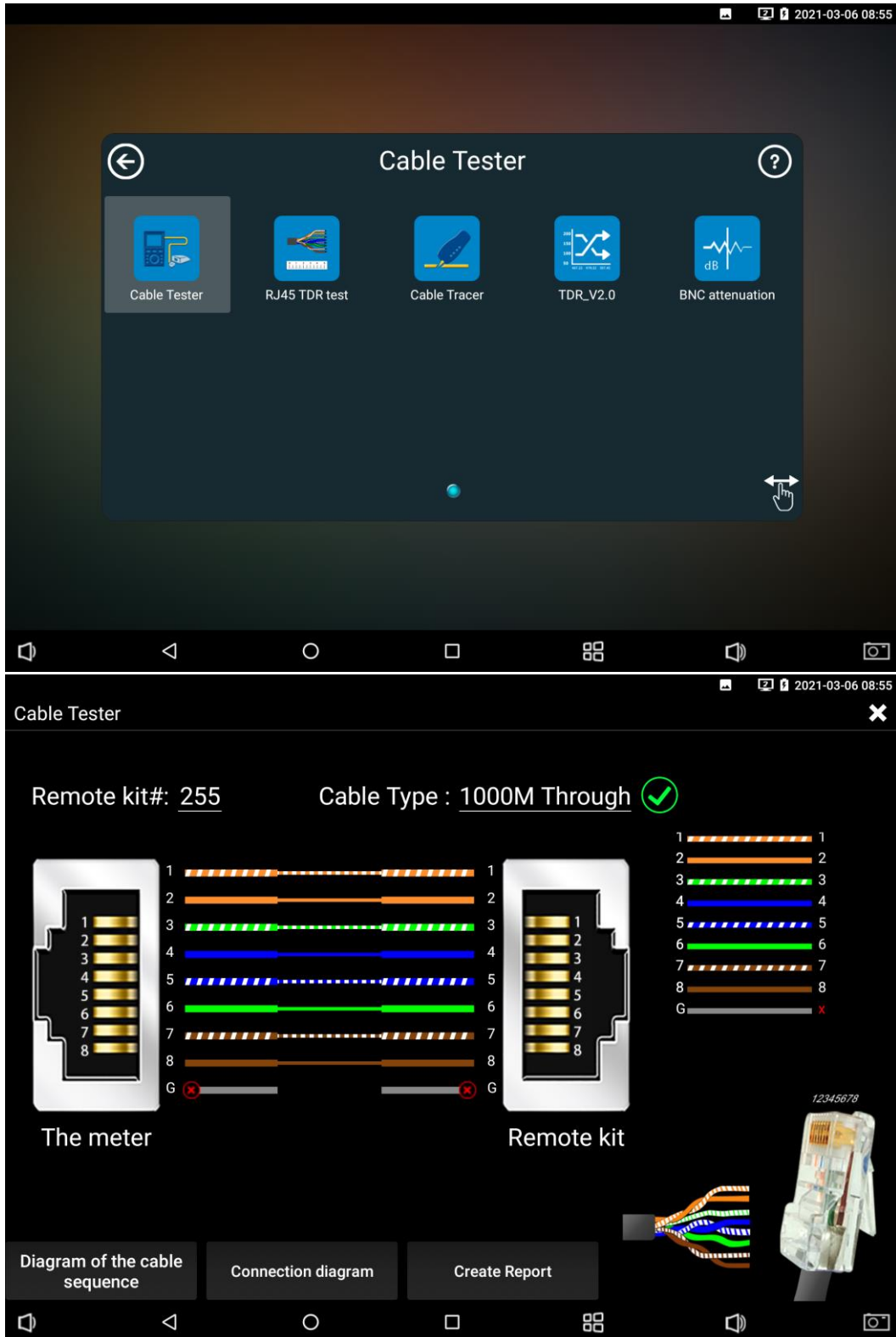


# User manual for Cable tracer




## Cable Test

Click the “Cable Tester” icon  to enter. One end of the RJ45 connector of the network cable is connected to the "UTP/SCAN" port of the instrument (the meter), and the other end is connected to the "UTP" port of the handheld cable tracer or to the small RJ45 test box (the remote kit). It is important to note that if the device is connected to the "UTP" port of the handheld cable tracer for coordination, the handheld cable tracer needs to be turned on.



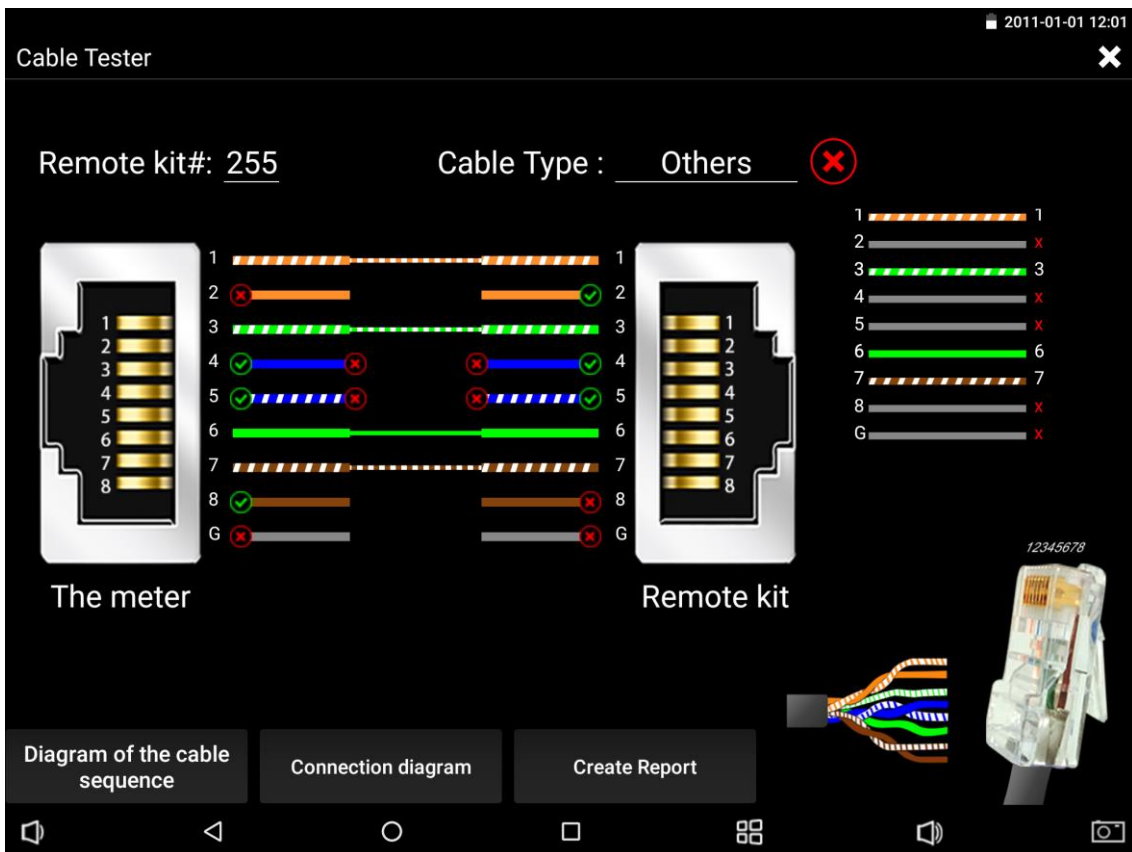
It can be used to test the sequence of network cable connector cores or telephone cable connector and whether the cable cores are disconnected. And it also displays the type of network cable and the number of the test box. The default number for the test box is 255. If you want to change the default test box number or need more than one test box, you need to customize.

**Visual judgment of whether network cable is available:**

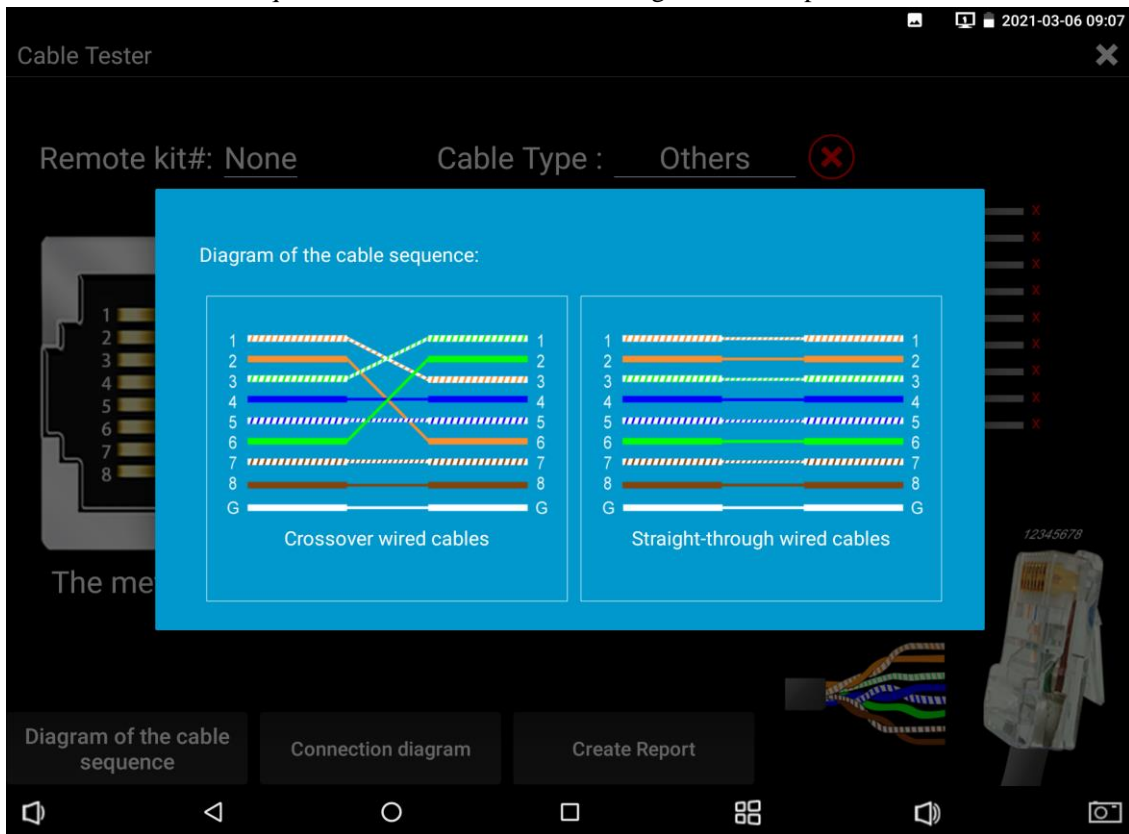
-  The sequence of network cable connector cores is correct, generally corresponding to gigabit direct/cross network cable.
-  The network cable sequence is partially wrong, but the cable is still usable. Generally corresponding to 100 MB straight or 100 MB cross network cable.
-  The network cable sequence is all wrong, the network cable is unavailable.

**Fault location of the host/remote kit:**


1. The symbol of "x" appears at the end of the host/remote kit, indicating that there is a breakpoint fault in the network cable connector at this end or within 1 meter of the connector at this end.
2. The symbol "x" appears in the middle indicates that the connectors at the end of the host and remote kit are normal, and there is a break point beyond the 1 meter range of the connector end.
3. The middle cable is not connected but there is no symbol of "x", indicating that the middle cable is normal, but there is a breakpoint fault in the network cable connector at this end or within 1 meter of the connector at this end.
4. When the remote kit is not connected to the UTP interface of the host, only using the host can also detect whether the cable connector near the host is faulty.

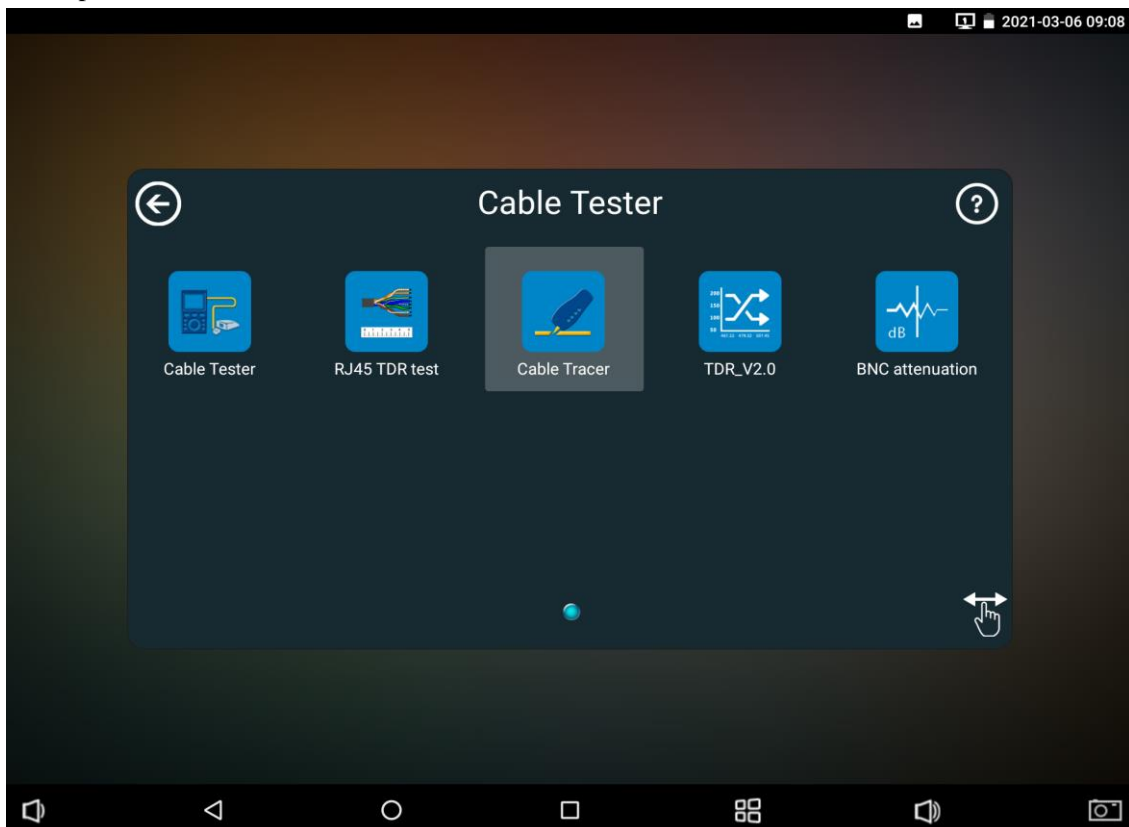


Tap "Diagram of the cable sequence" option, pop up Straight-through cable and crossover cable sketch, it provides a reference for the sequence of cable cores when making the twisted-pair cable connectors.

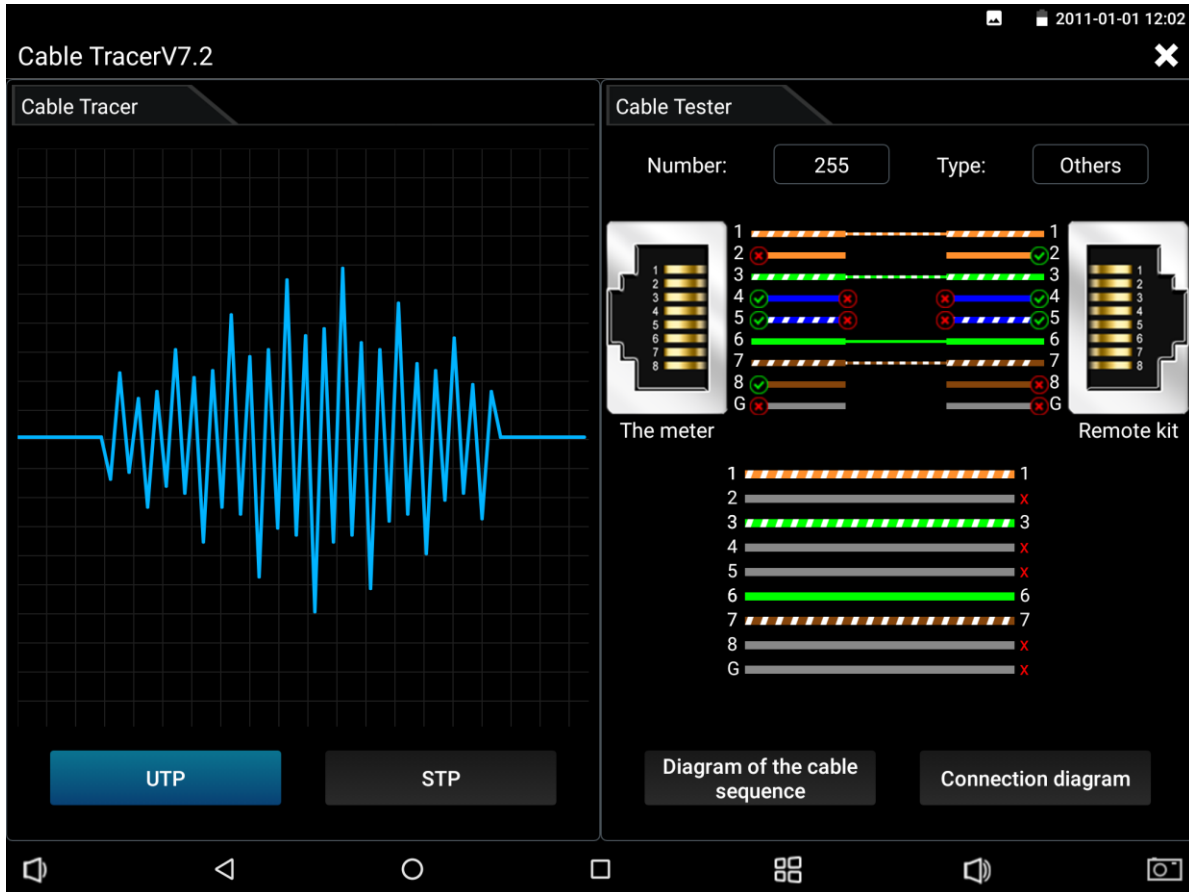


### Cable Tracer

Click the "Cable Search" icon  to enter. When the network cable is tested, it is connected to the "UTP/SCAN" port of the tester. When the BNC cable is tested, it will be connected to the "TV OUT" port (BNC port) at the top of the tester.



UTP mode is used for searching the normal network cable or other cables, such as BNC cable. STP mode is used for searching the shielded network cable. When searching for a network cable at a distance, plug the cable connector into the UTP port of the handheld cable tracer, and you can also test the cable connector sequence. When testing the cable connection sequence, if the cable has a breakpoint, it can indicate on the software interface whether the breakpoint is near the host (the meter) or the handheld cable tracer (remote kit). If the network cable breakpoint position is close to the host end, the host end displays "x", and the handheld cable tracer (remote kit) displays "√".



Rotating the switch of the handheld cable tracer to turn on. Clockwise rotation increases sensitivity, anticlockwise rotation reduce sensitivity. When looking for the cable in the well, touch the surface sheath of the cable with the tip of the cable tracer head. When the cable tracer emits the clearest regular sound, the cable is the one connected to the tester host. When the noise is caused by multiple cables, the head tip of the cable tracer can be used to touch the cable sheath, walk along the sheath for a distance, or reduce the sensitivity of the cable tracer, so as to distinguish which of the multiple cables has the strongest signal and is most likely the target cable.

Connect one end of the network cable being tested to the "UTP" port of the cable tracer and the other end to the "UTP/SCAN" port of the tester host, can test the cable connection sequence, continuity, type.

For example, when the connected network cable connector is Straight-through pressing method., the "DIRECT" light of the handheld cable tracer is on, and the 1, 2, 3...The light of 8 will twinkle in turn. If the light of number 5 does not twinkle, then the fifth pin of the 568B pressing method is not pressed well, and the others are similar. When the connected network cable connector is Crossover pressing method, the "CROSS" light of the line finder will be on, and the 1, 2, 3...The lamp of 8 twinkles according to the order of Crossover pressing method. When the connected network cable connector does not belong to the Straight-through pressing method and the Crossover pressing method, then the "OTHER" light of the handheld cable tracer will light up, then the network cable connectors are likely to be fabricated incorrectly.

"G" light of the handheld cable tracer flashing indicates that the shielding layer of the shielded network cable under test is intact. If it is not shielded network cable, it is normal that the light does not flash.

Insert the cable connector into the PD port of the handheld cable tracer, if the other end of the cable connected to the POE switch, then PD light will light up. When the yellow light is on, it indicates that the 4th, 5th, and 7th, 8th pins of the port of the POE switch are supplying power. When the green light is on, it indicates that the 1th, 2th, and 3th, 6th pins of the port of the POE switch are supplying power


Matching handheld cable tracer with LED light, night or dark places can also be operated. A short press of the "LED" button can turn on the LED light. Another short press of the "LED" button can turn off the LED light.


Long press the MUTE button for 2 seconds or so, you can switch the cable tracer to soundless mode after the "Di" sounds, then the cable tracer will no longer emit sound, just through the first, second, third...The number of lights on G is used to judge the strength of the cable signal. When the number of lights on is greater, the signal in the cable is stronger and the possibility of the target cable is greater. Short press the "MUTE" button again to exit the soundless mode.

## Application

In security maintenance and network engineering, it is easy to find the target cable from the jumbled cable.

When looking for the BNC cable, connect the matching " alligator clip cable" to the "TV OUT" port (BNC port) of the instrument, then clamp the copper core of the BNC cable with one end of the matching cable and the copper mesh (shield) of the BNC cable with the other end. When the cable tracer looks for the cable in the cable well, the target cable will make the clearest sound.

 **Note1:** The battery of the cable tracer must according to corresponding positive pole + and negative pole -, otherwise will damage the tracer. The battery of the instrument is powered by two no.5 batteries, which are not used for a long time. Please remove the battery to avoid battery leakage.

 **Note2:** While the cable tracer tester is receiving the audio signal from the tester, it may be influenced by other signals and make some noise.