

UT681 HDMI

HDMI Cable Tester User Manual

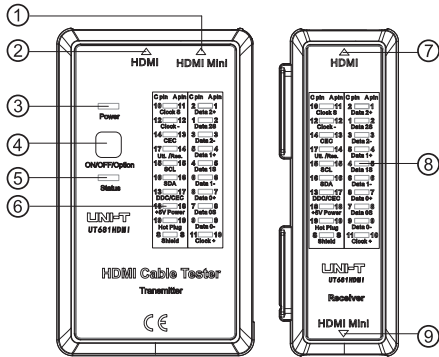
Note: Before using this instrument, please read and understand the instructions

- The instrument can not be used to test the network cable, telephone cable that is in working state . otherwise it will damage the instrument and equipment being connected by the cable
- When low voltage indication appears , please replace the 9V battery. (Note: Power input to the device cannot be greater than 12VDC) .
- If do not use this instrument for a long time, please take out the battery to prevent the leakage of liquid to protect the instrument.
- The meaning of the symbols of this instrument is as follow
CE: Meets the European Community (European Union) standard
- Application standards: EN61326-1: 2013; EN61326-2-2:2013

I. Instrument function introduction

UT681 HDMI is a professional tester for testing HD cable (HDMI 1.2V/ 1.3V/1.4V/2.0V).
It can quickly scan and test up to 19 wires and decide which one is short circuit, open circuit, or in wrong order.

1. Test mode: a) fast scan mode b) full display mode
2. The type of the HD cable to be tested
 - a. Both ends are standard HDMI connectors (Type A - Type A)
 - b. Both ends are HDMI Mini connectors (Type C - Type C)
 - c. One end is HDMI connector, one end is HDMI Mini connector (Type A - Type C)
3. Battery low voltage test: when the battery voltage is lower than about 7.2V, the blue light flashes, prompting to replace the battery
4. Auto shut down function: when no operation during the last 10 minutes, the instrument will automatically shut down.



1	Transmitter HDMI Mini (Type C) interface
2	Transmitter HDMI standard (Type A) interface
3	Transmitter power indicator
4	Transmitter power ON/OFF and Function switch key
5	Transmitter analog status indicator
6	Transmitter alignment indicator
7	Receiver HDMI standard (Type A) interface
8	Receiver alignment indicator
9	Receiver HDMI Mini (Type C) interface

II. Test method of the instrument

1. Method for UT681HDMI to test HD cable:

Firstly install the 9V battery, short press the ON/OFF/Option key for 0.5 seconds to start up, the indicator flashes immediately. Long press ON/OFF/Option key for 2 seconds to shut down .
At the Power ON state, short press the ON/OFF/Option key to switch between scan mode and full display mode. The state indicator flashing style is to identify which mode is chosen.
The scan mode is used for specific defect detection. The full display mode is used for quick alignment detection.

2. Using HDMI standard interface (Type A - A)for example :

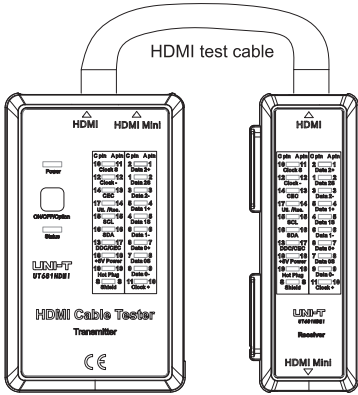
The two terminal heads of the HD data lines to be tested are respectively inserted into the HDMI ends of the transmitter and the receiver.

a. If the cable is error free:

The scan mode: the alignment indicators of the transmitter and receiver will be synchronized from 1 to 19 one by one.

Full display mode: the alignment indicators of the transmitter and receiver light with the same brightness (It is normal that the indicator brightness in scan mode is a little higher than that in the full display).

- b. If a short circuit is detected, the corresponding indicator of the transmitter will light up, the corresponding indicator of the Receiver will not light up.
- c. If an open circuit is detected, both the corresponding indicator of the transmitter and receiver will not light up.
- d. If two or more lines are crossing, in wrong sequence or order, both corresponding indicators of the transmitter and receiver will light up, but they will not be synchronized. Long press the ON/OFF/Option key for 2 seconds to shut down.



III. Product specification

- Working environment: working temperature: 0~40℃
- Storage temperature: -10~50℃
- Working humidity: 20~80% RH
- Storage humidity: 10~90% RH
- Altitude: less than 2000 meters
- Dimensions: Transmitter: 102 mm x 62 mm x 29mm
Receiver: 102 mm x 37 mm x 28mm
- Product weight: Transmitter about 78g (bare metal);
Receiver: about 51g (bare metal)

IV. Packing list

1. Transmitter ----- 1PCS
2. Receiver ----- 1 PCS
3. 9V Battery ----- 1 PCS
4. Manual Book ----- 1 PCS

V. Replace Battery

At the Power Off state :

1. Remove the battery cover and the old battery.
2. Install the new battery with correct polarity.
3. Close the battery cover and tighten with screws.

VI. Maintenance and Clean.

Clean the instrument with a dry soft cloth to avoid moisture. Do not use the agents or other chemicals to clean the unit . This product has passed the strict quality inspection before leaving the factory. If found damages not caused by misuse or vandalism in the course of using , Please contact after-sale service, Do not disassemble to repair it privately .

UNI-T®

UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No6, Gong Ye Bei 1st Road,
Songshan Lake National High-Tech Industrial
Development Zone, Dongguan City,
Guangdong Province, China
Tel: (86-769) 8572 3888
<http://www.uni-trend.com>

Warnings and safety information

For all information on handling and use, please refer to the instruction manual or product label. Before using the products, read its contents and follow the instructions contained therein.

Also read the following information before use:

Safety of use

1. Use measuring tools for their intended purpose. Do not use measuring tools for tasks for which they were not designed to avoid damage or erroneous measurement results.
2. Always make sure a tool is in good working condition before using it. Damaged tools, such as cracked cases or damaged displays, can lead to incorrect measurements or risk of accidents.
3. Calibrate measuring tools regularly to ensure accuracy and reliability of measurements. Incorrectly calibrated devices can lead to erroneous results.

Precautions

1. Use appropriate eye protection, especially when working with measuring tools that may emit radiation.
2. Keep measuring tools away from children and untrained people to prevent accidental damage or misuse.
3. Avoid using measuring tools in extreme conditions of temperature, humidity or in an atmosphere with a high concentration of dust, which can affect their accuracy and functionality.
4. Be careful not to damage delicate measuring components (e.g., sensors, probes) when working with measuring tools.

Safe use

1. Always make sure that the measuring tool is properly aligned and fixed to avoid measurement errors or damage.
2. Use measuring tools only in designated areas that provide adequate stability and minimize the risk of accidents, such as slippery or uneven surfaces.
3. Never take measurements on live components or in conditions that may pose a safety hazard.

Rules for use in appropriate conditions

1. Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which can damage the devices or affect their accuracy.
2. When using measuring tools, make sure they are well seated and will not be subjected to shocks or impacts that can damage them.
3. Avoid using measuring tools in areas with extreme conditions, such as high vibration, hot surfaces, dust, or moisture, unless the tool is rated for this by the manufacturer.

Maintenance instructions

1. Regularly check the condition of measuring tools, especially measuring components (e.g., sensors, probes, displays) and batteries.
2. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g., soft cloths) to avoid damaging delicate components.
3. Calibrate measuring tools regularly, according to the manufacturer's recommendations, to maintain measurement accuracy.

Safe disposal

1. Dispose of used or damaged measuring tools in accordance with current environmental and electronics recycling regulations.
2. Do not dispose of measuring tools in regular waste containers, as they may contain elements harmful to the environment.
3. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Statement of compliance

The products have been designed in accordance with the safety requirements of **Regulation (EU) 2023/988** on general product safety, ensuring their compliance with applicable standards for the safety and health protection of users.

EU REP

UNI-TREND TECHNOLOGY EU GMBH

Affinger Strasse 12 86167 Augsburg,

Germany