



HDMI Cable Test Set



Overview

The Tenma **Model 72-847 HDMI Cable Test Set** is designed to provide fast convenient verification of proper pin connections of HDMI cables and wall plates. The set includes a **Main Test Unit**, and **Remote Test Receiver**. The main unit will work as a stand alone tester, with **INPUT** and **OUTPUT** connections for both ends of an HDMI cable. It is ideal for testing most any interconnect cable prior to installation on equipment. The remote receiver includes an **INPUT** connection only, and is used in conjunction with the main unit, when the ends of the cable not near each other.

This set sequentially tests continuity of each signal path present on an HDMI cable. In automatic mode, the set will test Path #1 ~ #9, one at a time, with LED indication of continuity on each path. The tester may also be placed in manual mode, allowing the installer to individually select each path at the desired pace.

Operation

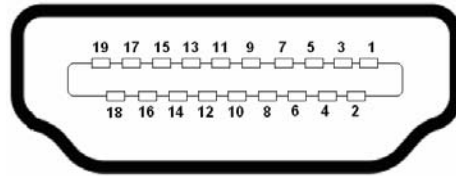
The HDMI connector contains a total of 19 pins, as illustrated below. This test set will test all pins, except for Pin #14, which is not used, and Pin #17 which is tied to ground. Pins 1~3 are used for red data, and this tester places each conductor in series and tests as one path. If any of these conductors are open, the RED Data LED (LED 1) will not light. The same holds true with Pin 4~6 (LED 2) for Green data, Pin 7~9 (LED 3) for blue data, and 10~12 (LED 4) for clock. Pins 13, 15, 16, 18 and 19 are all tested independently.

Directions

- Verify that a fresh 9V battery is installed in the **Main Test Unit**
- Make certain the HDMI cable is not connected to equipment at either end
- Verify that the power switch in the **Main Test Unit** is in the **OFF** position (fully left)
- Plug one end of the HDMI cable into the **OUTPUT** connector on the **Main Test Unit**
- Plug the remaining end of the HDMI connector into either
The **INPUT** connector on the **Main Test Unit**
or
The **INPUT** connector on the **Remote Test Receiver**
- Slide the power switch to the **AUTO** position, the unit will now sequence through each of the nine signal paths
- The LED sequence on the top and bottom displays of the **Main Test Unit** should light the same
- A non matching sequence between the top and bottom displays illustrates crossed or jumped conductors
- The absence of an LED illuminating indicates an open conductor
- If the **Remote Test Receiver** is used, LED #1 ~ #9 should light sequentially
- If an LED on the **Remote Test Receiver** fails to light, that particular signal path is open
- If the LED's on the **Remote Test Receiver** do not light sequentially, there are crossed or jumped conductors
- To manually test each signal path, slide the power switch to the **MANUAL** position
- Press the **TEST** button to select the desired signal path
- Be sure to slide the power switch to the **OFF** position when testing is completed

Cable Pin-out

(viewed from female receptacle)



LED

1

Red Data

- Pin 1 TMDS Data2+
- Pin 2 TMDS Data2 Shield
- Pin 3 TMDS Data2-

2

Green Data

- Pin 4 TMDS Data1+
- Pin 5 TMDS Data1 Shield
- Pin 6 TMDS Data1-

3

Blue Data

- Pin 7 TMDS Data0+
- Pin 8 TMDS Data0 Shield
- Pin 9 TMDS Data0-

4

Clock Data

- Pin 10 TMDS Clock+
- Pin 11 TMDS Clock Shield
- Pin 12 TMDS Clock-

Remaining Pins

5

- Pin 13 CEC
- Pin 14 Reserved (not tested)

6

- Pin 15 SCL

7

- Pin 16 SDA
- Pin 17 Ground (not tested)

8

- Pin 18 +5 V Power

9

- Pin 19 Hot Plug Detect

Model #72-847

Tenma Test Equipment

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