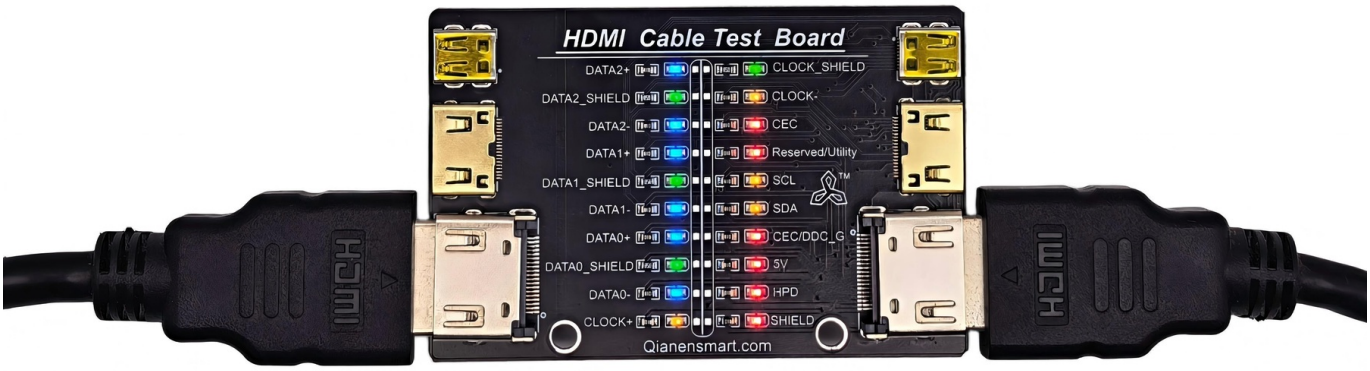
HDMI Cable Continuity Tester

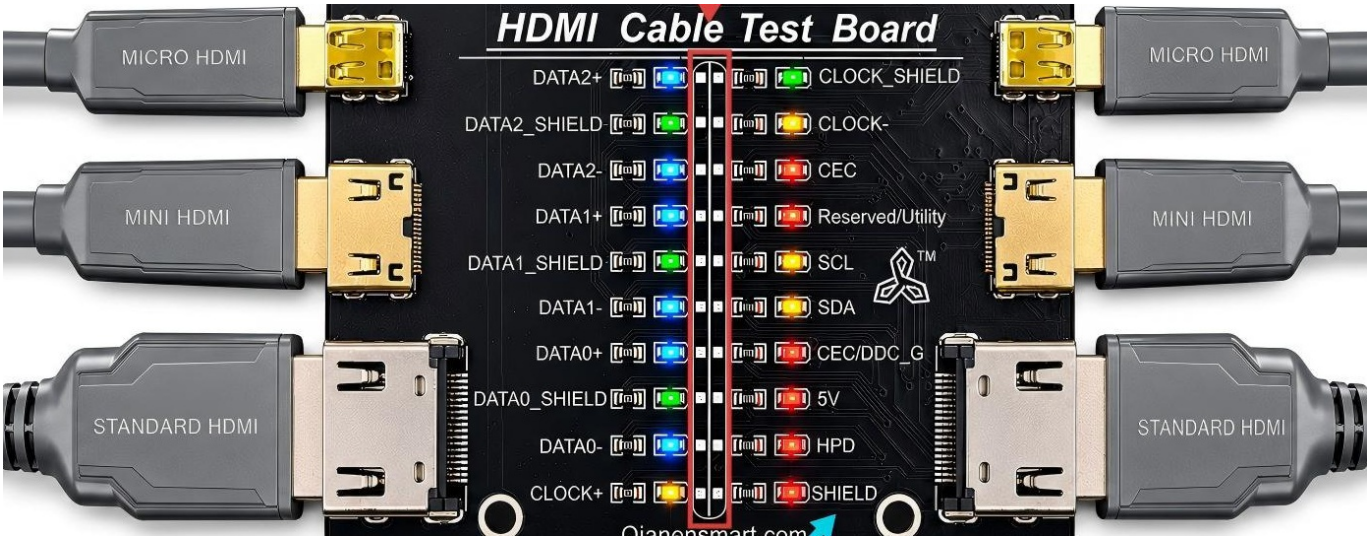
Check individual HDMI cable circuits and shielding through LED indicators, with no computer, software or external power supply required.



- Supports Standard HDMI, Mini HDMI, Micro HDMI and mixed-connector cables
- 19-pin checks for TMDS, clock, CEC, DDC, power and shielding
- Replaceable CR2032 battery; dimensions approx. 6.7 × 4.5 cm

> Package: tester × 1, CR2032 battery × 1, bottom cover × 1. Product appearance and structure are patent protected.

Quick start: connect both ends of one cable



Test only a standalone, unpowered HDMI cable. Disconnect it from the display, computer, player and all other devices first.

- 01 Check the CR2032 battery, connectors and housing.
- 02 Insert both ends of the same cable into the corresponding sockets to form a test loop.
- 03 Read each board label; gently flex the cable and connectors to check for flickering.

> An illuminated LED indicates continuity only. It does not certify resolution, bandwidth, HDCP, EDID communication or signal quality.

Three supported HDMI connector types



Micro HDMI



Mini HDMI



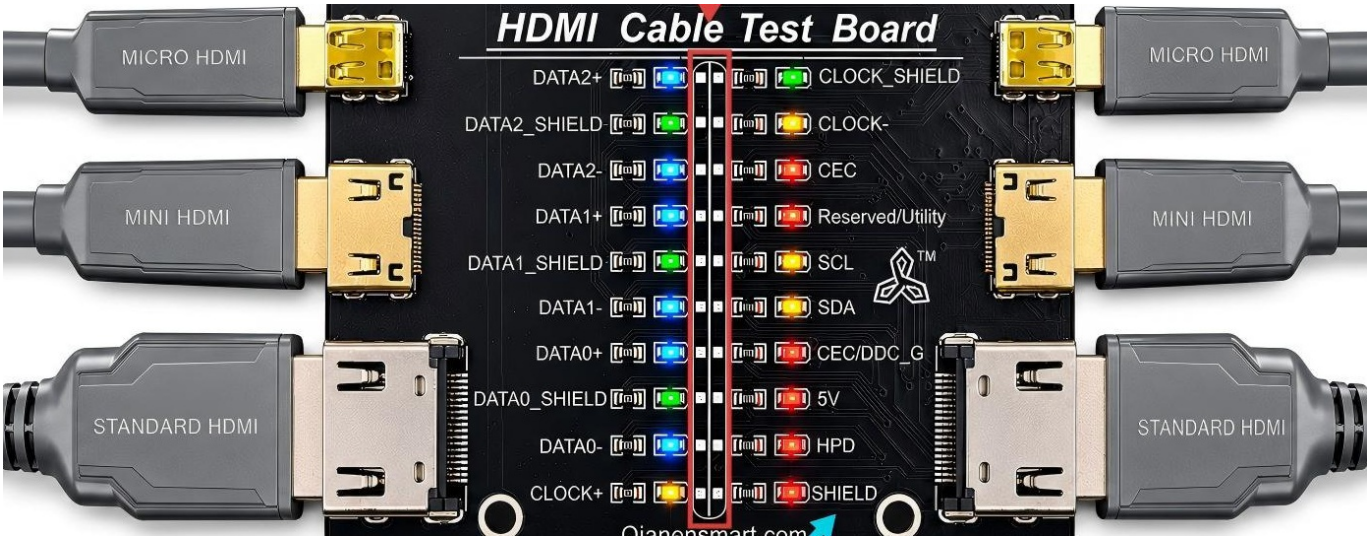
HDMI

Select sockets that match the cable plugs. Cables with identical or different connectors can be tested.

- Micro HDMI: commonly used on compact cameras and portable devices.
- Mini HDMI: commonly used on cameras, tablets and some video equipment.
- Standard HDMI: used on monitors, TVs, computers and media players.

> Insert and remove plugs straight while supporting the connector. Micro and Mini look similar; check the shape before insertion.

Four LED colors and board labels



Colors provide a quick guide to circuit functions; always use the board labels when interpreting results.

- Red: power and functions such as CEC, HPD, +5V and SHIELD.
- Blue: TMDS high-speed differential data signals.
- Green: shield ground for TMDS data pairs.
- Yellow: TMDS clock and IIC / DDC signals.

> SHIELD is the shield circuit. The central Marker test point is for production or service checks, not a user control.

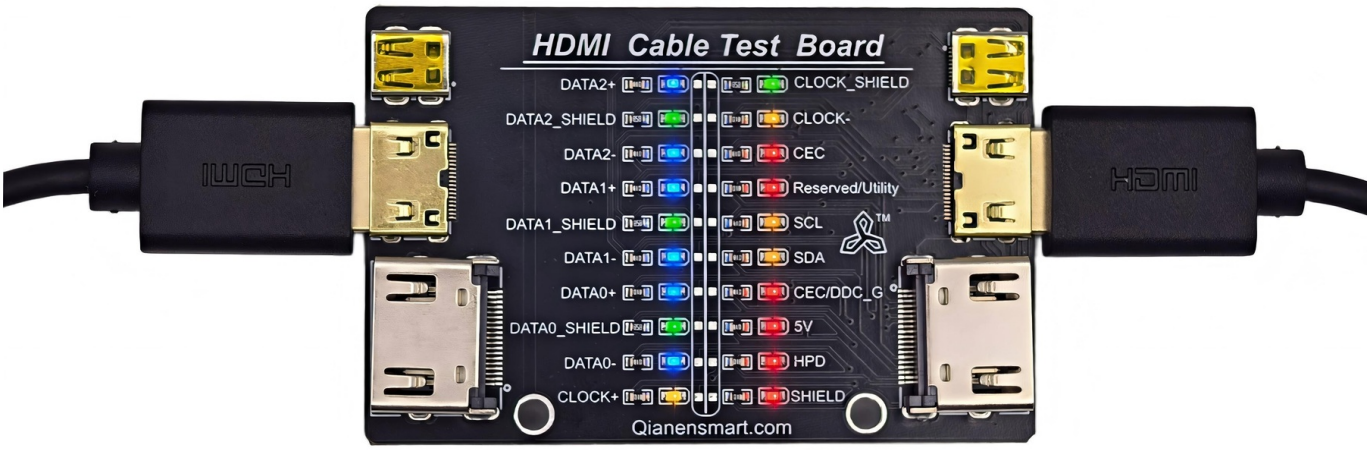
HDMI 19-pin function definitions

The table lists the 19 contacts of standard HDMI. Continuity on some pins depends on cable design and version; not every LED needs to illuminate.

Pin	Signal	Function
1	TMDS Data2+	TMDS differential data
2	TMDS Data2 Shield	Data-pair shield ground
3	TMDS Data2-	TMDS differential data
4	TMDS Data1+	TMDS differential data
5	TMDS Data1 Shield	Data-pair shield ground
6	TMDS Data1-	TMDS differential data
7	TMDS Data0+	TMDS differential data
8	TMDS Data0 Shield	Data-pair shield ground
9	TMDS Data0-	TMDS differential data
10	TMDS Clock+	TMDS differential clock pair
11	TMDS Clock Shield	Clock shield ground
12	TMDS Clock-	TMDS differential clock pair
13	CEC	Consumer Electronics Control
14	Reserved / Utility / HEAC+	Reserved / Utility / HEAC+
15	SCL	DDC I²C clock for EDID / HDCP
16	SDA	DDC I²C data for EDID / HDCP
17	DDC / CEC Ground	DDC / CEC ground
18	+5V Power	+5V power
19	Hot Plug Detect (HPD)	Hot Plug Detect (HPD)

> Reserved / Utility / HEAC+ varies with the HDMI version and device design. The tester checks circuits, not protocol functions.

4K reference LEDs: Mini HDMI

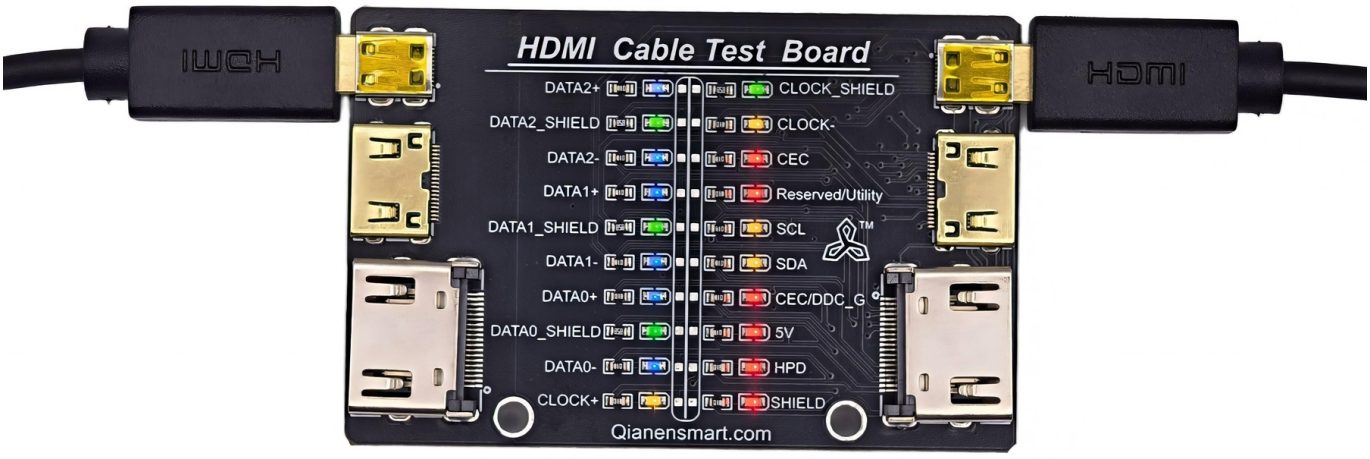


Insert both ends of a Mini HDMI to Mini HDMI cable into the left and right Mini HDMI sockets.

- Original reference pattern: TMDS data, clock and related function LEDs are all illuminated.
- This complete pattern is provided as a typical reference for a 4K 60Hz cable.
- If an expected LED is off, reinsert the plugs and compare with a known-good cable.

> Actual 4K 60Hz capability must be verified with the source, display and cable. Continuity testing is not high-speed signal quality certification.

4K reference LEDs: Micro HDMI

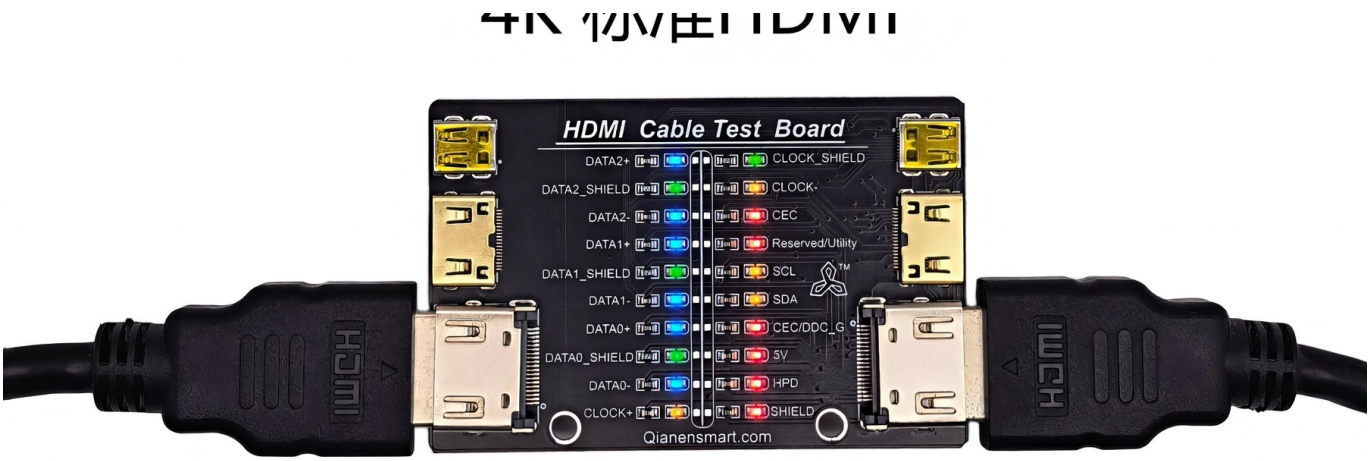


Insert both ends of a Micro HDMI to Micro HDMI cable into the left and right Micro HDMI sockets.

- Original reference pattern: TMDS data, clock and related function LEDs are all illuminated.
- This complete pattern is provided as a typical reference for a 4K 60Hz cable.
- Flickering during flexing may indicate poor contact or an intermittent open circuit.

> Actual resolution, refresh rate and bandwidth must be verified with the devices; all LEDs on does not guarantee 4K 60Hz.

4K reference LEDs: Standard HDMI

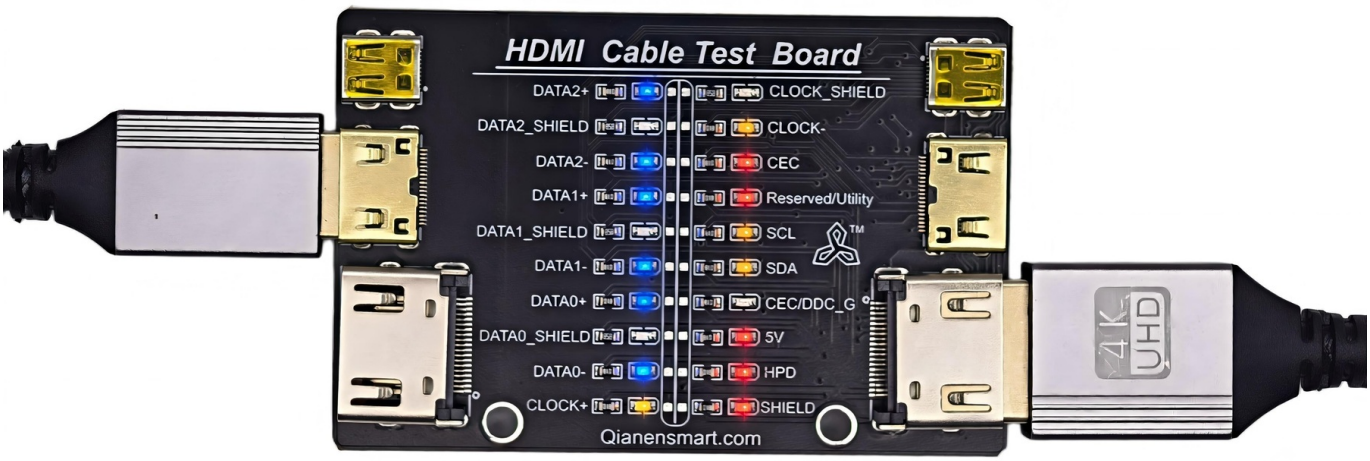


Insert both ends of a Standard HDMI cable into the lower left and right Standard HDMI sockets.

- Original reference pattern: TMDS data, clock and related function LEDs are all illuminated.
- This complete pattern is provided as a typical reference for a 4K 60Hz cable.
- Check each signal group against its label, not just the total number of illuminated LEDs.

> Cable specifications, length and device capability all affect actual video output; verify with the complete system.

Standard HDMI to Mini: shield LEDs off

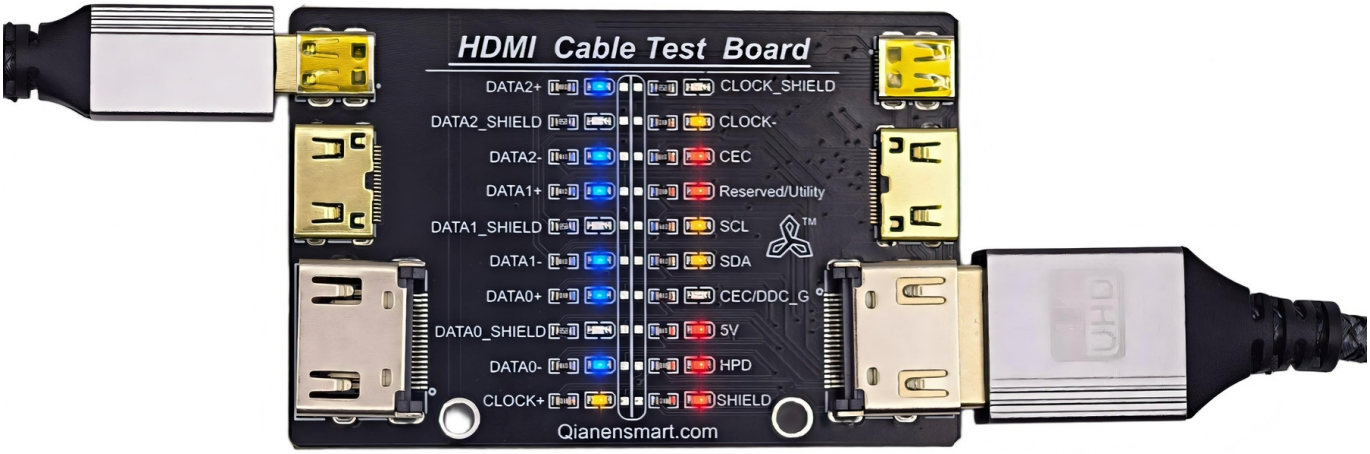


Connect the Standard and Mini plugs to the corresponding sockets, then observe DATA_SHIELD and CLOCK_SHIELD.

- On the illustrated cable, some shield circuits are not continuous, so the related LEDs remain off.
- The original manual presents this as a typical pattern for 1080P or 4K 30Hz cables.
- Missing shielding may reduce interference margin, but the LEDs alone cannot establish a fault.

> This example reflects one cable construction, not every Standard to Mini cable. Verify actual performance with the devices.

Standard HDMI to Micro: shield LEDs off



Connect the Standard and Micro plugs to the corresponding sockets, then check the data and clock shield LEDs.

- On the illustrated cable, some DATA_SHIELD circuits are not continuous, so the related LEDs remain off.
- The original manual presents this as a typical pattern for 1080P or 4K 30Hz cables.
- If full shielding is specified, reinsert the cable and compare with a known-good cable.

> A shield LED being off does not necessarily mean no video; nor is it a certification of high-speed signal quality or interference immunity.

CR2032 battery replacement and safety



The battery is on the rear. Use a CR2032 with the positive "+" side facing upward.

- 01 Disconnect all cables and remove the bottom cover; do not use a connector as a prying point.
- 02 Gently push or lift the battery edge out of the clip; do not short-circuit the contacts.
- 03 Install the new battery, check the clip and retest with a known-good cable.

> Keep button batteries away from children. If swallowed, seek immediate medical attention. Do not recharge, short-circuit, heat or disassemble. Remove the battery for extended storage.