

Features

- Supports video resolution outputs up to 4K2K@60 4:4:4 8bit, HDR 10bits, 12bits, 16bits
- Built-in 3 video patterns
- Both HDMI input and output support up to HDMI 2.0 Video bandwidth 18Gbps
- Fundamental HDMI feature analysis up to 4K2K@60 4:4:4 8bit HDMI 2.0 input
- HDCP 1.4 & 2.2 compliant
- Tests cable quality
- Provides statistics analysis for cable quality or connection stability
- Hand-held pocket size
- Battery powered for portability, it can extend operation time with full load up to 3 hours
- Rechargeable battery design with short charging time about 3 hours

Notes

- Not supporting 4K2K60 DVI mode
- 4K60 (YUV 4:2:0) 10bits is common resolution
- Pattern will be different under different resolution
- Before using, please plugging the power adapter to switch off the shipping mode
- Device will automatically enter battery saving mode after 1 minute idle. During battery saving mode, if user would like to get device back to work, please push any button. Notice that when plugging in an active HDMI input, device will NOT enter battery saving mode.

Package contents

- HDMI 2.0 4K HDR Installation Gear
- USB-A to micro B cable
- User Manual

Layout

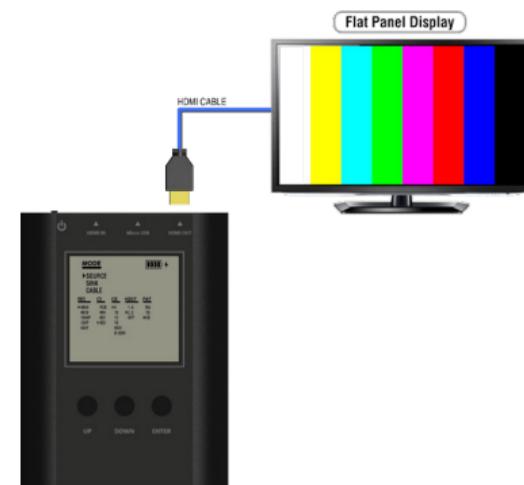


1. Button (ENTER)
2. Button (DOWN)
3. Button (UP)
4. LCD Display
5. OUTPUT: HDMI output
6. Micro-USB: Firmware update / Recharge
7. INPUT: HDMI input
8. Power Switch: Power ON/OFF Switch

Source Mode

When device is treated as a source, it can generate different test patterns to the display under test.

1. Make sure the connection between the device HDMI output port and the display.
2. Use buttons to select MODE category and enter SOURCE mode.
3. Use buttons to set up the output signal format and video testing pattern.



Sink Mode

When device is in sink mode, it can read the HDMI source information and in addition, the input HDMI can be passed through to HDMI capable display if needed

1. Connect the device between HDMI source and HDMI display.
2. Use buttons to select MODE category and enter SINK mode.
3. The process of acquiring HDMI info will take about 3~5 seconds



Sink Mode

In this mode, device offers a link quality estimator following the Character Error Detection mechanism from HDMI 2.0 specification. The estimator can provide a basic link quality evaluation regarding the cable or any other HDMI link connected to device. Please notice that the evaluation result can provide an insight into the link quality under testing, but not always reflects the real robustness of HDMI 2.0 full bandwidth connection. The stability of the full bandwidth HDMI 2.0 connection is affected not only by the cable or link quality but also many other factors, such as, the signal integrity of the source, the ambient temperature, the reception of the display, and so on. Therefore the testing result is just for a reference.

1. Make sure the tight connection between the device and the cable.
2. Use buttons to select MODE category and enter CABLE mode.
3. Keep pressing ENTER button for about 5 seconds to start the link test. The device will evaluate the HDMI signal quality based on HDMI 2.0 specification and provide a result, PASS or NG.



Please notice that during testing, device will NOT take any commands from buttons except ENTER. Pressing ENTER continuously for 5 seconds will terminate the evaluation process.

Performance Criteria:

According to HDMI 2.0 specification, the performance criteria is shown ad the following table.

Result	Requirement
PASS	The error counts of signal are less than signal clock x 10-6
NG	The error counts of signal are more than signal clock x 10-6

Please be advised that the test result is based on the cable connection and the signal integrity of both input and output from device.

The indicator is usually a good reference for cable quality, but any other source or display in consideration plays an important role in the final stability of the HDMI 2.0 connection.

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**HDMI 2.0 4K
Installation Gear**

User Manual

