

CPHD-V4

4K HDR HDMI Signal Generator & Analyzer



INTRODUCTION

This HDMI Signal Generator & Analyzer is an advanced and handy tool for generating, testing and verifying the signal path within your 18Gbps HDMI ecosystem. With 90 built-in resolutions, 58 test patterns and over a dozen types of A/V analysis functions, this unit provides an enormous range of testing options. HDMI data packet, EDID and HDCP analysis is supported along with EDID upload and emulation. Additionally the Status and Control Data Channel (SCDC) can be monitored, allowing HDMI 18Gbps signal detection and analysis. Up to 8 channels of LPCM audio test tones can be generated with a wide range of frequencies.

This unit also supports the ability to upload up to 2 user-generated graphic files which can be used as additional test patterns. The use of multi-function and multi-color backlit buttons allows for easy operation of the unit's wide variety of functions and a clear OLED display provides a way to quickly view the current signal status information. In addition to the front panel buttons, the unit can also be controlled via RS-232, Telnet, and IR providing a complete range of control options.



FEATURES

- HDMI 2.0 (up to 4K@60Hz 4:4:4) and DVI 1.0 compliant
- HDCP 1.4 and 2.2 compliant
- Analysis of source and sink data paths up to 18Gbps HDMI signals
- Analysis of HDMI data packets
- Analysis and control of HDCP v1.4 and v2.2
- Analysis and emulation of EDID data, including SCDC
- Analysis of input audio signals
- HDR bypass and analysis support
- Generate HDMI timings up to 18Gbps (4096x2160@60Hz 4:4:4, 8-bit)
- Generate HDMI and VGA signal outputs
- 2 custom user test pattern resolutions: 640x480 & 1920x1080
- External stereo audio input and output
- Generation of LPCM sinewave audio on up to 8 channels
- Front-panel, RS-232, Telnet, and IR remote controls
- OLED display with rapid updates of current status information
- Detailed OSD for settings and informational displays
- Supports USB firmware and pattern update
- Small and portable unit



SPECIFICATIONS

CPHD-V4

Input Ports	1xHDMI 1xStereo (3.5mm)
Output Ports	1xHDMI 1xVGA 1xStereo (3.5mm)
Control Ports	1xRS-232 (DE-9) 1xIP Control (RJ-45) 1xUSB (Type-A)
Power Supply	5V/2.6A
Dimensions	120mmx155mmx30mm (WxHxD) [Case Only] 125mmx162mmx30mm (WxHxD) [All Inclusive]
Weight	796g