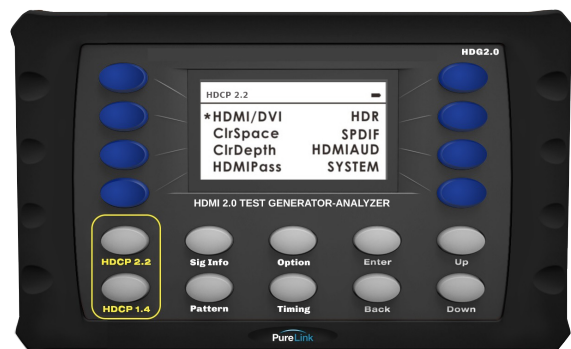# HDG 2.0 4K Test Pattern Generator

The HDTools™ **HDG 2.0** provides a convenient tool for integrators and installers for testing, generating, and verifying A/V signal paths, as well as calibrating existing system devices. The **HDG 2.0** is capable analyzing signal resolutions up to 4K@60Hz (4:4:4) and is fully compliant with HDMI 2.0 and HDCP 2.2 standards. With over 50 built-in timings, 31 test patterns, and multiple data analysis patterns, the **HDG 2.0** provides a large array of testing options with support for EDID and HDCP analysis, along with EDID upload and emulation.

Key Features

- Supports Ultra HD/4K (50/60Hz, 4:4:4 chroma subsampling)
- Full 18G signal path analysis
- HDMI 2.0 compliance
- HDR (High Dynamic Range) testing & analysis
- Multiple HDCP output options – HDCP 2.2, 1.4, and HDCP OFF
- CEC compliance testing
- EDID analysis and emulation
- 55 video resolutions and 31 test patterns
- External digital audio input & output
- User friendly interface - OLED display
- Compact, rugged design - battery-operated for greater portability

Technical Specifications

HDMI COMPLIANCE	HDMI 2.0b
HDCP COMPLIANCE	HDCP 2.2
SUPPORTED BANDWITH	18 Gbps
SUPPORTING RESOLUTIONS	Up to 4K@50/60Hz (YUV 4:4:4)
COLOR SPACE	RGB, YCbCr 4:4:4, YCbCr 4:2:2
COLOR DEPTH	8-bit, 10-bit, 12-bit Internal: LPCM 2CH, 48kHz, 16bits External SPDIF: LPCM 2/5.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD PROTECTION	Human body model - ±8kV (air0gap discharge) & ±4kV (contact discharge)
INPUTS	1 x HDMI Type A [19-pin female] 1 x SPDIF In [Optical] 1 x RS-232 [3.5mm Mini-jack]
OUTPUTS	1 x HDMI Type A [10-pin female] 1 x SPDIF Out [Optical]
DIMENSIONS (WxDxH)	6.5" x 4.1" x 1.5" (165 x 103 x 37.4mm)
WEIGHT	1 Lbs (0.36 Kg)
POWER SUPPLY	Input: AC100 - 240V 50/60Hz
POWER CINSUMPTION	2.5W
OPERATION TEMPERATURE	32 - 104ºF / 0 - 40ºC
STORAGE TEMPERATURE	-4 - 140ºF / -20 - 60ºC
RELATIVE HUMIDITY	20 - 90% RH (no condensation)