

HD 4K 101 Plus

HDMI CABLE EQUALIZER FOR 4K/60 SOURCES

- ▶ Extends 4K video signals up to 75 feet (23 meters) and HD signals up to 175 feet (53 meters) when used with Extron HDMI Pro Series cable
- ▶ Supports computer and video resolutions up to 4096x2160 @ 60 Hz with 4:4:4 chroma sampling
- ▶ Supported HDMI 2.0b specification features include data rates up to 18 Gbps, HDR, Deep Color up to 12 bit, 3D, Lip Sync, HD lossless audio formats, and CEC
- ▶ HDCP 2.2 compliant
- ▶ Automatic input cable equalization
- ▶ Can be powered directly from the HDMI source device
- ▶ LED indicator for source signal presence and power
- ▶ Facilitates EDID communication and HDCP key exchange between devices
- ▶ 1" (2.5 cm) high, one eighth rack width metal enclosure



The Extron HD 4K 101 Plus is a compact, high-performance cable equalizer for HD and 4K video signals. Supporting HDMI 2.0b specification features including data rates up to 18 Gbps and HDR, this HDCP 2.2 compliant equalizer reliably extends video signals at resolutions up to 4K/60 with full 4:4:4 color sampling. The HD 4K 101 Plus provides optimal image quality in a small form factor, making it ideal for permanent installations as well as temporary applications.



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

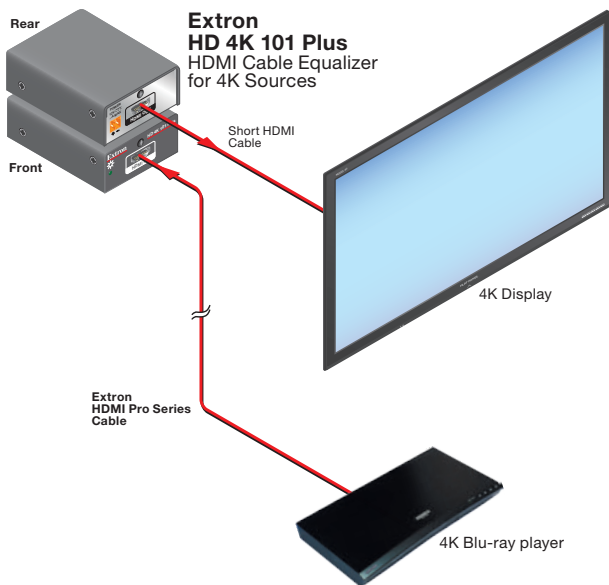
DESCRIPTION

The Extron **HD 4K 101 Plus** is an HDMI cable equalizer supporting video signals at resolutions up to 4K/60 with 4:4:4 chroma sampling. Used at the destination end of a long cable run, the HD 4K 101 Plus actively equalizes poor or marginal source signals, reduces jitter and skew, and adds output pre-emphasis to reliably extend the HDMI signal. The HDCP 2.2-compliant equalizer supports HDMI 2.0b specification features, including data rates up to 18 Gbps, HDR, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC. To streamline integration, the 1/8 rack wide unit can be powered by the connected HDMI source or an optional external power supply. The compact design and built-in capabilities of the HD 4K 101 Plus make it ideal for discreet mounting in a wide variety of permanent installations and temporary applications.

KEY FEATURES

- ▶ Extends 4K video signals up to 75 feet (23 meters) and HD signals up to 175 feet (53 meters) when used with Extron HDMI Pro Series cable
- ▶ Supports computer and video resolutions up to 4096x2160 @ 60 Hz with 4:4:4 chroma sampling
- ▶ Supported HDMI 2.0b specification features include data rates up to 18 Gbps, HDR, Deep Color up to 12-bit, 3D, Lip Sync, HD lossless audio formats, and CEC
- ▶ HDCP 2.2 compliant
- ▶ Automatic input cable equalization
- ▶ Can be powered directly from the HDMI source device

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		

Frame rate ¹	24, 25, 30, 50, or 60 fps
Chroma sampling ¹	4:4:4, 4:2:2, or 4:2:0
Color bit depth ¹	8, 10, or 12 bits per color
Signal type	HDMI 2.0b, HDCP 1.4 and 2.2
Max. video data rate	18.0 Gbps (6.0 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (<http://www.extron.com/product/videotools.aspx>) to determine video parameters supported by this data rate.

VIDEO

Maximum data rate	18 Gbps (6.0 Gbps per color)
Maximum pixel clock	600 MHz
Resolution range	Up to 4096x2160 @ 60 Hz (4K), 3840x2160 @ 60 Hz (UHD), 1920x1200 or 1080p @ 60 Hz

VIDEO INPUT

Input cable length	
4096x2160 @ 60 Hz	35' (10 m)
3840x2160 @ 60 Hz	50' (15 m)
4K/UHD @ 30 Hz	75' (23 m)
1080p, 1080i, 1920x1200, 1600x1200,	
1280x1024 @ 60 Hz	125' (38 m)
1080p, 1920x1080 @ 24/30 Hz	150' (46 m)
1080i, 720p, 1280x1024, 1024x768 @ 60 Hz	150' (46 m)
720p @ 30 Hz	175' (53 m)

VIDEO OUTPUT

Number/signal type	1 single link HDMI (or DVI*)
Output cable length	Up to 12' (3.6 m)

GENERAL

Power supply	External (optional); product can be powered by source via pin 18 Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device	0.8 W
Device and power supply	1.4 W
Mounting	Yes, with optional mounting brackets
Enclosure type	Metal
Enclosure dimensions	1.0" H x 2.2" W x 3.0" D (1/8 rack wide) (2.5 cm H x 5.6 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight	0.1 lbs (<0.1 kg)

Model	Version Description	Part number
HD 4K 101 Plus	HDMI Cable Equalizer for 4K/60 Sources	60-1621-01

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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