

# HDMI 101 Plus

## HDMI CABLE EQUALIZER

- ▶ Extends HDMI signals over HDMI cable up to 200 feet (60 meters)
- ▶ Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, HD lossless audio formats, and CEC
- ▶ Supports HDTV 1080p/60 and PC resolutions up to 1920x1200
- ▶ HDCP compliant
- ▶ Automatic input cable equalization
- ▶ LED indicator for source signal presence and power
- ▶ Powered by source device at distances up to 125 feet (38 meters)



The Extron HDMI 101 Plus is an equalizer that offers a convenient, economical solution for extending HDMI signals up to 200 feet using Extron HDMI Pro Series cables. It automatically provides the necessary active equalization to ensure optimal image quality with HDTV signals up to 1080p/60 with 12-bit color. The HDMI 101 Plus is ideal for permanent installations as well as temporary applications with long HDMI cable runs.



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INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **HDMI 101 Plus** is an HDMI equalizer that offers a convenient, economical solution for extending HDMI signals beyond the suggested 15 meter (45 foot) distance limit for HDMI cables. The HDMI 101 Plus attaches to the end of a long HDMI cable run of up to 200 feet at 1080p/60 with 8-bit color and 150 feet at 1080p/60 with 12-bit color when used with Extron HDMI Pro Series cables. It automatically provides the necessary active equalization to ensure optimal image quality with HDTV signals up to 1080p/60 and high resolution computer-video signals up to 1920x1200. The HDCP-compliant HDMI 101 Plus is ideal for permanent installations as well as temporary applications with long HDMI cable runs.

The HDMI 101 Plus compensates for poor source signals or low-quality cabling, providing a cost effective means for extending digital video, multi-channel audio, and control signals from HDMI-equipped devices. HDCP compliance ensures the long distance extension of HDCP-encrypted content from Blu-ray Disc players, DTV and cable tuners, DVRs, laptop computers, and other HDCP-enabled sources.

The equalizer can be powered by the attached source device for up to 125 feet (38 meters). This capability eliminates the need for an external power supply although an energy-efficient universal power supply ships with the unit. Use of the included power supply is recommended for optimal signal integrity and longer cable runs. An LED indicator provides a quick means of verifying power and signal presence from the source.

## FEATURES

- ▶ **Extends HDMI signals over HDMI cable up to 200 feet (60 meters)** – Supports up to 200 feet at 1080p/60 with 8-bit color and 150 feet at 1080p/60 with 12-bit color.
- ▶ **Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, HD lossless audio formats, and CEC**
- ▶ **HDCP compliant**
- ▶ **Automatic input cable equalization** – Actively conditions incoming HDMI signals to compensate for signal loss when using long HDMI cables, low quality HDMI cables, and source devices with poor HDMI signal output.
- ▶ **Supports DDC transmission** – Facilitates EDID communication and HDCP key exchange between the display and source.
- ▶ **LED indicator for source signal presence and power**
- ▶ **1" (2.5 cm) high, one-eighth rack width metal enclosure**
- ▶ **Powered by source device at distances up to 125 feet (38 meters)**
- ▶ **Energy-efficient external universal power supply included, replacement part # 70-775-01**

## SPECIFICATIONS

<b>NOTE:</b> *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.		
<b>VIDEO</b>		
Maximum data rate	6.75 Gbps (2.25 Gbps per color)	
Maximum pixel clock	225 MHz	
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz	
Formats	RGB and YCbCr digital video	
Standards	DVI 1.0, HDMI 1.3	
Impedance	100 ohms	
Input video signal	1.2 Vp-p (TMDS)	
ID bits	5 Vp-p (TTL)	
<b>VIDEO INPUT</b>		
Number/signal type	1 single link HDMI (or DVI-D*)	
Connectors	1 female HDMI type A	
Equalization	Automatic for up to -40 dB of cable loss	
Input cable length	Up to 150' (46 m) at 1080p / 12 bit @ 60 Hz Up to 175' (53 m) at 1080p / 10 bit @ 60 Hz Up to 200' (61 m) at 1920x1200, 1600x1200, or 1080p / 8 bit @ 60 Hz Up to 250' (76 m) at 720p, 1080i, 1024x768, or 1280x1024 @ 60 Hz Longer distances are possible with lower rates and/or high quality cable.	
<b>NOTE:</b> The transmission distance varies greatly depending on the signal resolution and on the type of cable, source, and display used in the system.		
<b>VIDEO OUTPUT</b>		
Number/signal type	1 single link HDMI (or DVI-D*)	
Connectors	1 female HDMI type A	
Output cable length	Up to 15' (5 m)	
<b>GENERAL</b>		
Power	Supplied by an external power supply or by the 5 V signal from an HDMI source (pin 18) or a DVI source (pin 14)	
External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A, regulated	
Power input requirements	12 VDC, 0.2 A from an external power supply or 5 VDC, 0.05 A from an HDMI or DVI source	
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing	
Cooling	Convection, no vents	
Mounting	Rack mountable with optional rack shelf kit	
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	0.4 lbs (0.2 kg)	
Shipping weight	2 lbs (1 kg)	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Regulatory compliance		
Safety	CE, CUL, UL	
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI	
MTBF	30,000 hours	
Warranty	3 years parts and labor	
<b>NOTE:</b> All nominal levels are at ±10%.		
Model	Version Description	Part number
HDMI 101 Plus	HDMI Cable Equalizer	60-872-02

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.



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