

# DVI 101

## DVI CABLE EQUALIZER

- Extends DVI-D/HDMI signals over DVI cable up to 200 feet (60 meters) at resolutions up to 1080p HDTV and 1920x1200
- Automatic active input equalization
- Supports DDC and HDCP copy protection transmission
- LED indicator for source signal presence and power
- Self-powering at shorter distances



The Extron DVI 101 is a DVI equalizer that offers a convenient, economical solution for extending single link DVI signals up to 200 feet using DVI cable assemblies. It automatically provides the necessary active equalization to ensure optimal image quality with HDTV 1080p and high resolution computer-video signals up to 1920x1200. The DVI 101 is ideal for temporary applications as well as permanent installations with long DVI cable runs.



**Extron® Electronics**  
[www.extron.com](http://www.extron.com)

## DESCRIPTION

The Extron DVI 101 is a DVI equalizer that offers a convenient, economical solution for extending single link DVI - Digital Visual Interface signals beyond the specified 5 meter (15 foot) limitation with standard DVI cables. The DVI 101 attaches to the end of a long DVI cable run of up to 200 feet (60 meters). It automatically provides the necessary active equalization to ensure optimal image quality with HDTV 1080p and high resolution computer-video signals up to 1920x1200. The DVI 101 is ideal for temporary applications as well as permanent installations with long DVI cable runs.

The DVI 101 passes EDID - Extended Display Identification Data information and supports the long distance transmission of HDTV signals with HDCP High-bandwidth Digital Content Protection for copy protection of digital television broadcasts and high resolution digital video output from DVD, HD DVD, and Blu-ray Disc players. With the appropriate adapters from Extron, the DVI 101 is fully compatible with HDMI, a digital video, audio, and control standard for consumer A/V products.

At shorter distances, the DVI 101 can be self-powered by the source device via the DVI cable. An LED indicator provides a quick means of verifying power and signal presence from the source. Part of the VersaTools® line of small, economical, integrator-friendly products, the DVI 101 is housed in a compact 1" (2.5 cm) high, one-eighth rack width enclosure for easy placement and concealment.

## FEATURES

- **Extends DVI-D/HDMI signals over DVI cable up to 200 feet (60 meters) at resolutions up to 1080p HDTV and 1920x1200** – The DVI 101 provides automatic equalization to ensure optimized image quality while enabling the use of DVI cables beyond the standard 5 meter (15 foot) limitation.
- **Extends HDMI signals when used with optional Extron HDMI-DVI adapters**
- **Supports DDC and HDCP copy protection transmission** – The DVI 101 fully supports long distance transmission of the DDC and HDCP signals.
- **LED indicator for source signal presence and power**
- **Self-powering at shorter distances** – The DVI 101 is capable of receiving power from an attached source device, replacing the need for power supply installation.
- **1" (2.5 cm) high, one-eighth rack width metal enclosure** – Housed in a compact, durable metal enclosure, the DVI 101 is small enough to fit anywhere and can be mounted in a rack.
- **External international power supply included**

## SPECIFICATIONS

**NOTE:** Appropriate HDMI-to DVI-D cables or adapters are required for HDMI signal input/output.

### VIDEO

Maximum data rate ..... 1.65 Gbps  
Pixel clock frequency ..... 165 MHz (max.)

### VIDEO INPUT

Number/signal type ..... 1 single link DVI-D (HDMI if using an adapter)  
Connectors ..... 1 female DVI D  
Nominal level ..... 1.2 Vp-p (for TMDS)  
5 Vp-p (TTL, for DDC)  
Resolution range ..... Up to 1920x1200 @ 60 Hz or 1080p  
Input cable length ..... >200' (61 m) at 1920x1200 @ 60 Hz or 1080p  
Longer distances are possible with lower rates and/or high quality cable.  
Equalization ..... Automatic for up to -40 dB of cable loss

### VIDEO OUTPUT

Number/signal type ..... 1 single link DVI-D (HDMI if using an adapter)  
Connectors ..... 1 female DVI D  
Resolution range ..... Up to 1920x1200 @ 60 Hz or 1080p  
Output cable length ..... 16' (5 m)

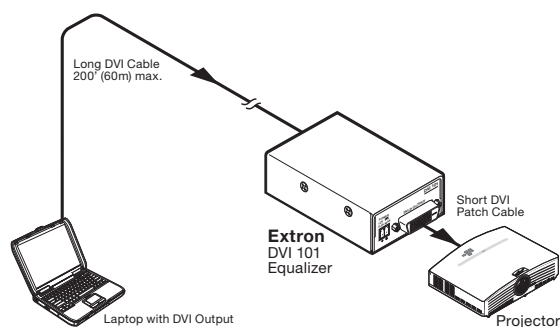
### GENERAL

Power ..... Supplied by an external power supply or by the 5 V signal from a DVI source (pin 14) or an HDMI source (pin 18)  
External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; 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 SDI source or an HDMI source  
Cooling ..... Convection, unvented  
Rack mount ..... Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); or 3" deep VersaTools® rack shelf, part #60-190-20 (RSF 123) or 60-604-20 (RSB 123); or 6" deep rack shelf, part #60-190-10 (RSU 126) or 60-604-10 (RSB 126).  
Enclosure type ..... Metal  
Enclosure dimensions ..... 1.0" H x 2.2" W x 3.0" D (one eighth rack wide)  
2.5 cm H x 5.6 cm W x 7.6 cm D  
Product weight ..... 0.4 lbs (0.2 kg)  
Shipping weight ..... 2 lbs (1 kg)  
Listings ..... UL, CUL  
Compliances ..... CE, FCC Class A, VCCI, AS/NZS, ICES  
MTBF ..... 30,000 hours  
Warranty ..... 3 years parts and labor  
**NOTE:** All nominal levels are at ±10%.

Model	Version Description	Part Number
DVI 101	DVI Equalizer.....	60-873-01

Specifications are subject to change without notice.

## APPLICATION DIAGRAM



**Extron Electronics, USA**  
1230 South Lewis Street  
Anaheim, CA 92805  
800.633.9876 714.491.1500  
FAX 714.491.1517

**Extron Electronics, Europe**  
Beeldschermweg 6C, 3821 AH Amersfoort  
The Netherlands  
+800.3987.6673 +31.33.453.4040  
FAX +31.33.453.4050

**Extron Electronics, Asia**  
135 Joo Seng Rd. #04-01  
PM Industrial Bldg.  
Singapore 368363  
+65.6383.4400 FAX +65.6383.4664

**Extron Electronics, Japan**  
Kyodo Building, 16 Ichibancho  
Chiyoda-ku, Tokyo 102-0082  
Japan  
+81.3.3511.7655 FAX +81.3.3511.7656