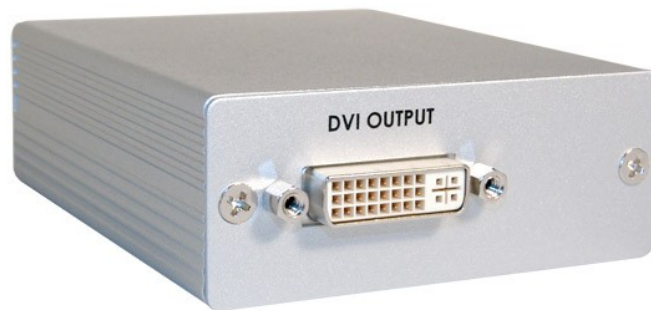


DVI Amplifier Equalizer

ID# 437



Operation Manual

Introduction

Using a copper-based DVI cable to extend a DVI display for a long distance will cause signal degradation. Our DVI Amplifier Equalizer provides 8 dB input equalization to compensate for long DVI cable loss, it will eliminate digital noise (sparkles) to ensure you to receive perfect HD resolutions up to UXGA or 1080p .

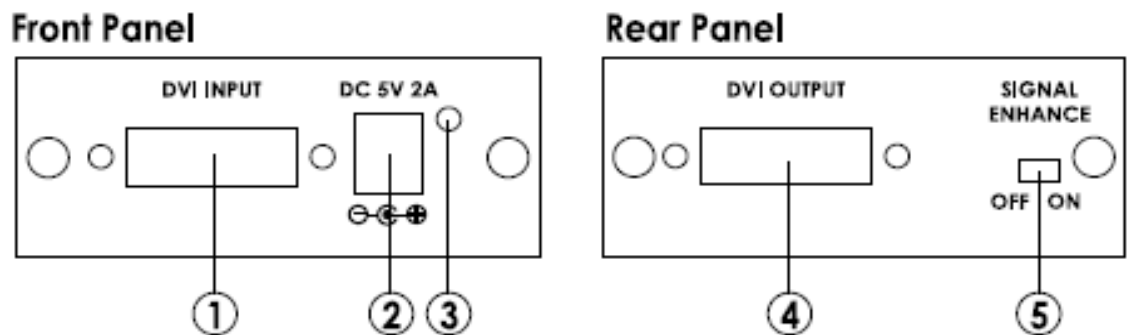
Features

- Provides 8 dB input equalization to compensate for long DVI cable loss.
- Extend cable reach to 40 meters- 20 meters from the source to the equalizer plus 20 meters from the equalizer to the projector, TV/monitor.
- Maintains high DVI single link video resolution up to UXGA/1080p.
- HDCP compliant.
- Plug and play, easy to install.
- Can be powered directly from the cable.

However it is recommended to use external power adaptor for long cable application.

Operating Functions and Controls

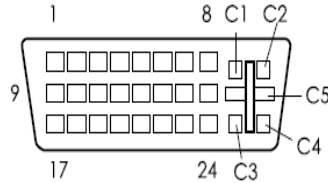
Front Panel



1. **DVI Input:** Connects to the DVI output connector of your source equipment.
2. **DC power plug.**
3. **Power LED.**
4. **DVI output** Connects to the DVI input connector of your display unit.
5. **5. Signal Enhance:** After long distance transmission you can press this button to enhance the signal.

DVI-I Pin Configuration

DVI-Integrated(DVI-I): Supports both analog and digital connections to the display. This 29 - pin connector can carry both single or dual link all-digital video/data signals on 24 pins and uses 5 pins to carry analog video/data signals and ground.



Combined Analog and Digital Connector Pin Assignments					
Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S Data2-	9	T.M.D.S Data1-	17	T.M.D.S Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2/4 Shield	11	T.M.D.S. Data1/3 Shield	19	T.M.D.S. Data0/5 Shield
4	T.M.D.S. Data4-	12	T.M.D.S. Data3-	20	T.M.D.S. Data5-
5	T.M.D.S. Data4+	13	T.M.D.S. Data3+	21	T.M.D.S. Data5+
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (Return for +5V, Hsync, and Vsync)	23	T.M.D.S. Clock+
8	Analog Vertical Sync	16	Hot Plug Detect	24	T.M.D.S. Clock-
C1	N.C.	C2	N.C.	C3	N.C.
C4	N.C.	C5	N.C.		

Specifications

- * Compliant with DVI 1.0
 - * HDCP is compliant with HDCP 1.1 downward compatible HDCP 1.0
 - * HDCP pass through.
 - * Operation frequency: Up to 165 MHz.
 - * DVI data rate: 1.65Gbps (single link)
 - * Input/Output resolutions:
- PC:** VGA, SVGA, XGA, SXGA, UXGA up to 165 MHz.
HD: 480i/576i, 480p/576p, 720p, 1080i, 1080p
Power: 5V 2A Center-positive

Note: Connect the long DVI cable from the source to the input of DVI Amplifier Equalizer and place the box next to your display

Connection and Installation

