DVI Equalizer

Operation Manual



Using a copper-based DVI cable to extend a DVI display for a long distance will cause signal degradation.

Our CP-269D 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.

This package includes

- The DVI equalizer box.
- 5V DC power adaptor.
- User manual.

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.

Operation Controls and Functions



- 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. Signal Enhance: After long distance transmission you can press this button to enhance the signal.

DVI OUTPUT

(4)

SIGNAL ENHANCE

OFF ON

5

DVI-I Pin Configuration

DVI-Integrated(DVI-I): Supports both analog and digital connections to the display. This 29-pin connector can carry 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 CP-269D and place the box next to your display.

Installation

