

Gefen

DVI•2000HD USER MANUAL



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Notice

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INTRODUCTION

Congratulations on your purchase of the DVI•2000HD. Your complete satisfaction is very important to us.

Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

The Gefen DVI•2000HD

The DVI•2000HD extends your dual link DVI display up to 1640 feet away from your source. Dual link DVI describes the use of all 24 pins of the DVI (digital visual interface) connector to achieve super high resolutions.

How It Works

The DVI•2000HDS sender unit sits next to your computer, set-top box or DVD player source. Cables supplied with the DVI•2000HD connect your DVI source to the send unit. The DVI•2000HDR receive unit sits next to your DVI display - up to 1640 feet away. The display plugs into the back of the receiver unit. One CAT-5 cable and multi mode LC fiber optic cable (8 strand) connect the sender and the receiver units to each other.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE DVI•2000HD

- The fiber optics cable must be treated carefully when connectors are exposed. They are susceptible to dust which can contribute to loss of pixels.
- The DVI•2000 works for all DVI displays and supports resolutions up to 3840x2400.
- The DVI•2000 is housed in a metal box for better RF shielding.
- Supports DDWG standard for DVI compliant monitors.
- Uses CAT-5 cable for HDCP/DDC and control signals.

FEATURES

Features

- Extends any dual link DVI compliant device up to 1640 (500 meters) feet from the computer
- Uses an 8 strand multimode LC-LC fiber optic cable
- Uses one CAT-5e cable for DDC and control signals
- Support HDTV resolutions
- Supports up to 3840 x 2400 resolutions
- Supports DDWG standard for DVI compliant monitor

Package Includes

- (1) DVI•2000HDS Sender
- (1) DVI•2000HDR Receiver
- (1) 12v Power Supply
- (1) 6 Foot DVI-DL cable (M-M)
- (1) User's Manual

SENDER PANEL LAYOUT

Front Panel



DVI In

Power Connector

Back Panel

Power LED indicates the unit is powered



Hot Plug Detect

Status LED indicates a link between the sender and receiver

Clock 2 Green 2 Red 1 Blue 1

Clock 1 Red 2 Blue 2 Green 1

HDCP & DDC Signals

RECEIVER PANEL LAYOUT

Front Panel

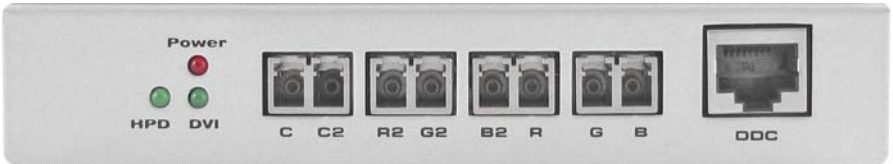


|
DVI Out

|
Power Connector

Back Panel

Power LED indicates the unit is powered



|
Hot Plug Detect
|
Status LED indicates
a link between the
sender and receiver

|
Clock 1
|
Clock 2
|
Red 2
|
Green 2
|
Blue 2
|
Red 1
|
Green 1
|
Blue 1

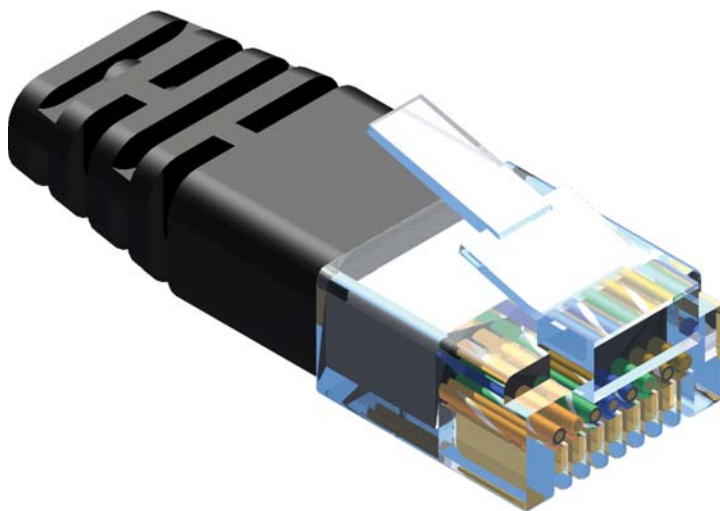
|
HDCP & DDC
Signals

CONNECTING AND OPERATING THE DVI•2000HD

How to Connect the DVI•2000HD

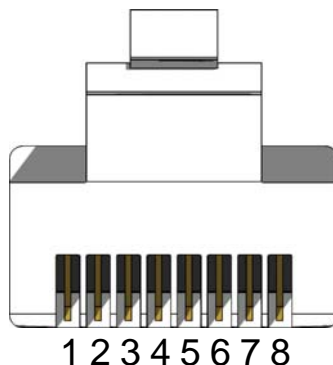
1. Connect the DVI•2000 sender unit to the DVI source using the supplied cables.
2. Connect the DVI•2000 receiver unit to your DVI display.
3. Connect the eight fiber optics and one CAT5 cable between the sender and receiver.
4. Plug the 12VDC power supplies into the DVI•2000 sender.
5. You should now have a video signal.

NETWORK CABLE WIRING DIAGRAM



Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



CAT-5, CAT-5e, and CAT-6 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling. CAT-6 cable is also recommended for best results.

Each cable run must be one continuous run from one end to the other. No splices or use of punch down blocks.

SPECIFICATIONS

Video Amplifier Bandwidth	2x 165 MHz
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
Dual Link Range	3840 x 2400
DVI Input/Output Connector Type	DVI-D
Link Connector	RJ-45
Power Consumption	15 Watts (max.)
Power Supply	12VDC
Dimensions	4"D x 5.5 "W x 1"H
Shipping Weight	5 Lbs