



## Extend dual link DVI up to 1640 feet

### Optional Accessories



DVI Cables

### 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.

**The DVI•2000HD is HDCP compatible.**

DVI, HDCP & HDMI Defined

#### 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
- HDCP compliant

#### Specifications:

- Video Amplifier Bandwidth: 2 x 165 MHz
- Input Video Signal: 1.2 volts p-p
- Input DDC Signal: 5 volts p-p (TTL)
- DVI Connector: DVI-D (24 pin) female
- Video Link Connector: LC
- DDC Link Connector: RJ-45 Shielded
- Power Supply: 12V DC
- Power Consumption: 36 watts (max)
- Dimensions: 3.25"D x 4.25"W x 1"H
- Shipping Weight: 5 lbs.

#### Package Includes:

- One DVI•2000HDS
- One DVI•2000HDR
- One 12V Power Supply
- One 6ft DVI-DL cable (M-M)
- One User's Manual



EXT-DVI-2000HD

# Gefen

## DVI•2000HD USER MANUAL



[www.gefen.com](http://www.gefen.com)

## ASKING FOR ASSISTANCE

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### Technical Support:

Telephone (818) 772-9100  
(800) 545-6900

Fax (818) 772-9120

### Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday.

### Write To:

Gefen Inc.  
c/o Customer Service  
20600 Nordhoff St  
Chatsworth, CA 91311

[www.gefen.com](http://www.gefen.com)  
[support@gefen.com](mailto:support@gefen.com)

### Notice

Gefen Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

**The DVI•2000** is a trademark of Gefen Inc.

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# INTRODUCTION

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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**

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### **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

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## 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

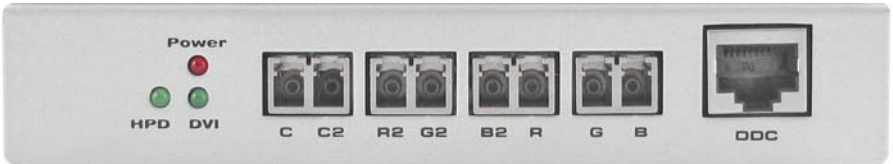


|  
DVI Out

|  
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

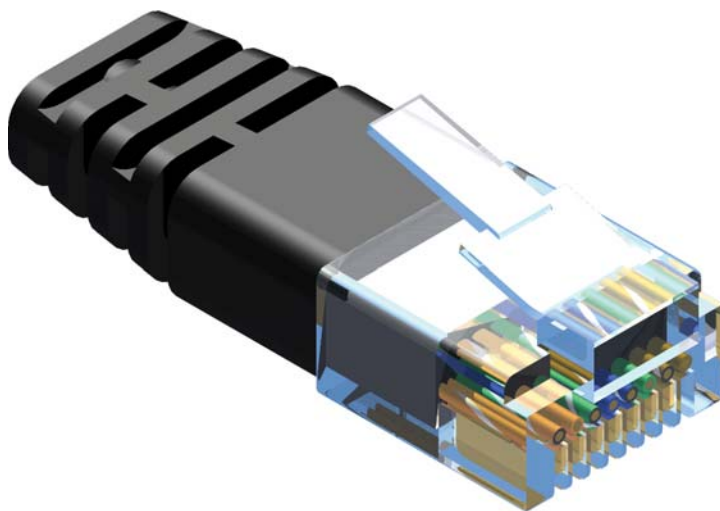
## **CONNECTING AND OPERATING THE DVI•2000HD**

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### **How to Connect the DVI•2000HD**

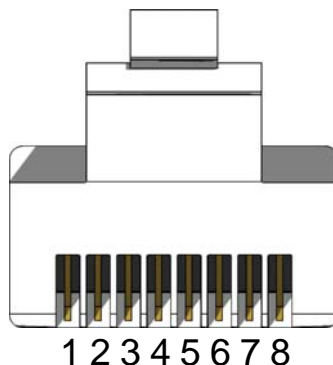
1. Connect the DVI•2000 sender unit to the DVI source using the supplied cables.
2. Connect the DVI•2000 receiver unit to your DVI display.
3. Connect the eight fiber optics and one CAT5 cable between the sender and receiver.
4. Plug the 12VDC power supplies into the DVI•2000 sender.
5. You should now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

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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