



**Gefen**

# **DVI Fiber Optic Extender**

**EXT-DVI-FMP**

**User Manual**



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

# ASKING FOR ASSISTANCE

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## Notice

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

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# INTRODUCTION

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Congratulations on your purchase of the DVI FMP. 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 FMP**

The DVI-FMP Extender extends your DVI display up to 2000 feet away from your source, with only two tiny transmitters and receivers required, using a 100% optical fiber solution. It's a great way to extend DVI video easily and unobtrusively.

## **How It Works**

The DVI FM sender unit plugs into your computer. The DVI FM receiver unit plugs into your DVI display - up to 2000 feet away. Multi mode LC fiber optic cable (4 strand) connect the DVI FMP and the DVI FMR units to each other.

Breakthrough Auto-EDID programming technology quickly and easily collects and preserves monitor resolution/capability information inside the DVI-FMP Sender, so that the computer properly syncs up with the display at all times and "knows what it is connecting to" -- eliminating the necessity of an add-on device such as Gefen's DVI Detective.

All-fiber signal transmission media insures that the video signal possesses complete EMI (electromagnetic interference) invulnerability.

# OPERATION NOTES

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## READ THESE NOTES BEFORE INSTALLING OR OPERATING THE DVI FMP

- The fiber optics cable must be treated carefully when connectors are exposed. They are susceptible to dust which can contribute to loss of pixels.
- DVI FM Plus Extender works for all DVI displays and supports resolutions up to 1920x1200
- Supports DDWG standard for DVI compliant monitors

# FEATURES

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## Features

- Extends any DVI (Digital Visual Interface) - compliant device up to 2000 ft (600 m) from the computer
- Supports video resolutions up to 1080p, 2K, and 1920 x 1200
- Uses inexpensive and widely available four-strand multimode LC fiber optic cable
- Automatic EDID Programming feature enables quick and correct sync of source to display
- Invulnerability to electromagnetic influences (EMI), thanks to all-fiber construction.
- Saves space on your desktop and Increases Productivity
- Eliminates computer noise where you work
- Supports DDWG standard for DVI compliant monitors

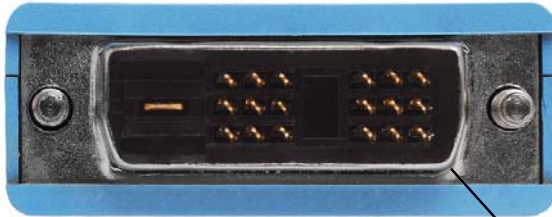
## Package Includes

- (1) DVI FM Sender (Computer (Tx)) Unit
- (1) DVI FM Monitor (Monitor (Rx)) Unit
- (2) 5V Power supply for the DVI FM Receiver Unit
- (1) User's Manual

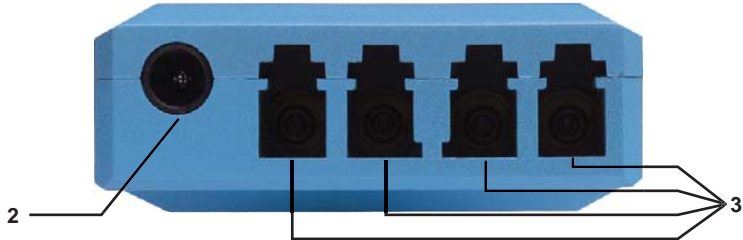
# SENDER/ RECEIVER PANEL LAYOUT

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*Front Panel*



*Back Panel*



## PANEL DESCRIPTIONS

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### **1** *DVI Input/Output*

The sending unit will connect to the DVI output of the source, and the receiving unit will connect to the DVI input of the display.

### **2** *5V DC Power Supply Input*

While both the sending and receiving units have the power supply input, only the sending unit should have the included power supply attached.

### **3** *Fiber Optic Cable Inputs*

Connect the 4 LC terminated fiber optic cables between the sending and receiving units. Ensure that each cable is connected to the same numbered output on both units. These cables will transmit the red, green, blue, and clock signals used for the DVI extension.



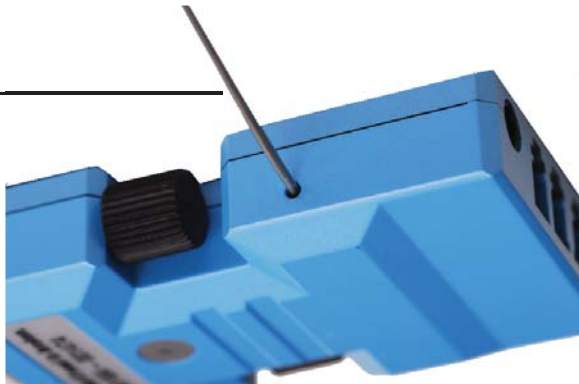
## SENDER UNIT EDID BUTTON LOCATION

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EDID Button Hole



Insert a small pin  
into the EDID  
button hole to  
program the  
display's EDID



# CONNECTING AND OPERATING THE DVI FMP

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## How to Connect the DVI FMP

1. Plug the 5V power supply to the power input of the sender, and connect the power supply to the nearest power outlet. Ensure that the blue LED is ON.
2. How to program the sender with the displays EDID:
  - A. Push the EDID button on the sender unit. The blue LED light will blink twice and then turn off.
  - B. Connect the powered sender to the display while turned on, and not to the PC. The LED will blink several time to indicate that it is reading and recording the display's EDID. The LED will turn OFF after it blinks several time to indicate that the EDID has been programmed.
  - C. Disconnect the sender from the display and the LED should turn ON again.

**Note:** If you want to change the display, you will have to repeat step 2. The default EDID that is programmed in the sender is the VESA standard of UXGA (1600x1200) 60Hz.

3. Plug the sender to the DVI input of the PC and confirm that the blue LED is ON. If it is not ON, then connect 5V power supply to the power input of the sender.

**Note:** Be sure to NOT to use any other cable or adapter between them to avoid undesirable performance and/or degradation.

**Note:** If you are using a laptop or Desktop PC with PCI Express graphic card, we recommend that you power the sender by inserting the power supply on the sender.

# SPECIFICATIONS

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Video Amplifier Bandwidth .....	165 MHz
Input Video Signal .....	1.2 Volts p-p
Input DDC Signal .....	5 Volts p-p (TTL)
Maximum Single Link Range .....	1920 x 1200
DVI Input/Output Connector Type .....	DVI-D (19 pin) male
Fiber Requirement .....	50 or 62.5 micron multimode fiber
Link Connector .....	LC
Power Consumption .....	2.5 Watts (max.)
Power Supply .....	5V DC
Dimensions .....	1.5"W x 0.75"H x 3.25"D
Shipping Weight .....	1 Lb.

# WARRANTY

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Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. The two year warranty is only valid on new products purchased as of January 2007. All products purchased before this date still retain their 1 year warranty. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed. Please note that if a product is returned for repair, proof of sale may be required in order to claim the warranty. Customers returning products for repair from locations outside the USA are responsible for shipping charges to and from Gefen. The warranty for copper cables is limited to 30 days and returned cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty page at <http://www.gefen.com/kvm/aboutus/warranty.jsp>

## PRODUCT REGISTRATION

Please register your product online by visiting Gefen's web site at <http://www.gefen.com/kvm/Registry/Registration.jsp>



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Rev X1

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