

Gefen

DVI FM1000 Extender

EXT-DVI-FM-1000

User Manual



www.gefen.com

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Notice

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

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INTRODUCTION

Congratulations on your purchase of the DVI FM1000 Extender. 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 FM1000 Extender

The DVI-FM1000 Extender extends your DVI display up to 3,280 feet (1km) away from your video source, with only two tiny transceivers required, using a 100% optical SC fiber solution with a single strand of fiber optic cable. It's a great way to extend DVI video easily and unobtrusively.

How It Works

The DVI-FM1000 sender unit plugs into your computer. The DVI FM1000 receiver unit plugs into your DVI display. A single strand of multimode SC fiber optic cable connects the Sender and the Receiver units to each other.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE DVI FM1000 EXTENDER

- DVI FM1000 Extender can only be operated with multi-mode SC terminated fiber optic cable.
- The supplied power adapter must only be used on the receiving unit. Power for the transmitting unit is supplied by the source device. If the LED on the transmitting unit does not activate once the source is connected and powered, please plug the included power adapter into the transmitting unit instead of into the receiving unit.
- The EDID from the display is stored in the transmitting unit but must be recorded from the display first. Please see instructions on page 5 for the proper EDID recording procedure.
- The following are the resolution and maximum distance ratings. Usage that exceeds these limits will produce unexpected results.

1920 x 1200 will be extended up to 300m (990ft)

1600 x 1200 will be extended up to 500m (1,650ft)

1280 x 1024 will be extended up to 1000m (3,280 ft)

FEATURES

Features

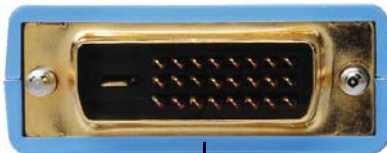
- Extends any DVI (Digital Visual Interface)-compliant device up to 3,280 ft (1km) from the computer
- Supports video resolutions up to 1080p, 2K, and 1920 x 1200
- Uses inexpensive and widely available single-strand multimode SC fiber optic cable
- Automatic EDID Programming feature enables quick and 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 Unit
- (1) DVI FM Receiver Unit
- (1) 5V DC 1A Power Supply
- (1) User's Manual

PANEL LAYOUT

Sender Front Panel



DVI In

Receiver Front Panel



DVI Out

Sender Back Panel



Optical
Cable Input

5V DC
Input

Receiver Back Panel



Optical
Cable Input

5V DC
Input

CONNECTING AND OPERATING THE DVI FM1000 EXTENDER

How to Connect the DVI FM1000 Extender

EDID Recording:

Display information (EDID) contains resolution and timing information for your display. This information is needed by the source for proper video output. Follow these steps to record the EDID of the display into the sending unit. If you know that EDID is not required by the source the followings steps for recording will not be necessary.

1. Connect the DVI FM1000 Extender sending unit (output is marked as COMPUTER) to the display using a user/monitor supplied DVI cable.
2. Power on the display.
3. Insert the included 5V DC power adapter into the sending unit. The LED on the top panel of the unit will begin to flash rapidly. Once the LED stops flashing and is solid, the monitors EDID will have been successfully recorded.
4. Disconnect the power adapter from the DVI FM1000 Extender sending unit, and then disconnect the DVI FM1000 Extender sending unit from the display.

Connecting the DVI FM1000 Extender System:

1. Connect the DVI FM1000 Extender sending unit (Output is marked as COMPUTER) to the DVI source device.
2. Connect DVI FM1000 Extender receiving unit (Output is marked as MONITOR) to the DVI display.
3. Connect the DVI FM1000 Extender sending and receiving units together using a user supplied SC terminated multi-mode fiber optic cable.

NOTE: This unit will only operate with SC terminated multi-mode fiber optic cable.

4. Connect the included 5V DC power adapter to the DVI FM1000 receiving unit.
5. Power on the DVI source.

NOTE: If the source does not supply the required 5V to the DVI FM1000 Extender sending unit, the power supply must be attached to the sending unit and not the receiving unit.

SPECIFICATIONS

Video Amplifier Bandwidth	165 MHz (Single Link)
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
DVI Connector	Type DVI-D (19 pin) male
Link Connector	SC
Power Supply	5V DC
Power Consumption	2.5 Watts (max.)
Dimensions	2.6" D x 0.6" H x 1.6"W per transceiver
Shipping Weight	5 lbs.

WARRANTY

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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