



Gefen

DVI 1000 ST Optical Extension

EXT-DVI-1000ST

User Manual



www.gefen.com

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Notice

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INTRODUCTION

Congratulations on your purchase of the DVI•1000ST. 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•1000ST

The Gefen DVI•1000ST extends your DVI display up to 500 meters (1640 ft) from your source. It's equipped with ST fiber optic connectors designed to withstand the extensive use that takes place in rental and staging markets. Like the DVI-1000 HD, this model delivers an easy, reliable and advanced method of high definition video extension while maintaining resolutions up to 1080p or 1920x1200 for computers.

How It Works

The DVI•1000STS sender unit connects to your computer, set-top box or DVD player with the supplied cables. The DVI•1000STR receiver unit connects to your DVI display - up to 500 meters (1640 ft) away. A four strand fiber optic cable and one CAT5 cable connect the sender (source) to the receiver (display).

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE DVI•1000ST

- 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 1000 ST works for all DVI displays and supports resolutions up to 1920x1200
- The DVI 1000 ST 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 DVI compliant device up to 1640 feet/500 meters (330 feet with HDCP) from the computer
- Uses a four strand fiber optic cable and one CAT-5e cable for DDC and control signals
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Supports DDWG standard for DVI compliant monitors
- HDCP compliant

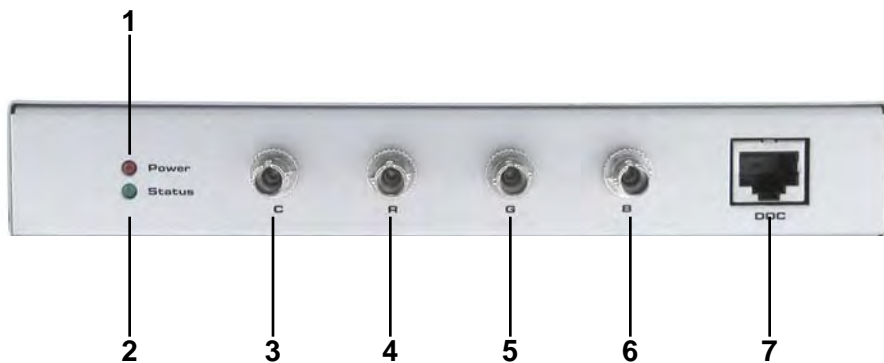
Package Includes

- (1) DVI•1000ST Sender
- (1) DVI•1000ST Receiver
- (1) 6 Foot DVI Cable
- (1) 12V Power Supply
- (1) User's Manual

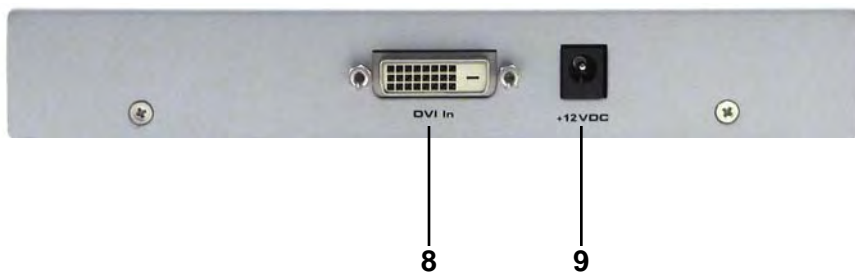


SENDER PANEL LAYOUT

Front Panel



Back Panel

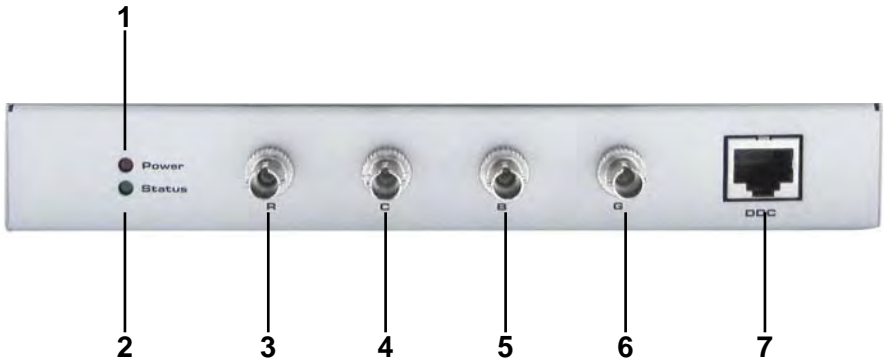


SENDER PANEL DESCRIPTIONS

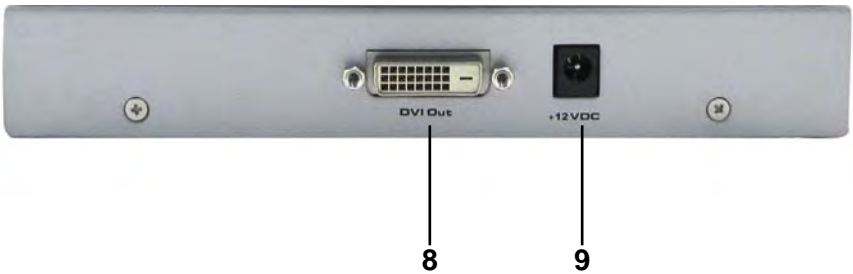
- 1. Power LED**
This LED will be active when the supplied 12V DC power adapter is connected.
- 2. Status LED**
This LED will be active when a solid link has been established between the sender and receiver units.
- 3. Clock ST Fiber Connector**
Connect the Fiber cable that will be used to transmit the Clock signal to this connector.
- 4. Red ST Fiber Connector**
Connect the Fiber cable that will be used to transmit the Red signal to this connector.
- 5. Green ST Fiber Connector**
Connect the Fiber cable that will be used to transmit the Green signal to this connector.
- 6. Blue ST Fiber Connector**
Connect the Fiber cable that will be used to transmit the Blue signal to this connector.
- 7. DDC CAT-5e Connector**
The CAT-5e that will carry the DDC information needs to be connected between the sender and receiver units.
- 8. DVI Input**
Connect the DVI source to this connector. This connector is limited to a digital single link DVI signal only.
- 9. +12V DC Power Connector**
Connect the included 12V DC power adapter to this connector.

RECEIVER PANEL LAYOUT

Front Panel



Back Panel



RECEIVER PANEL DESCRIPTIONS

- 1. Power LED**
This LED will be active when the supplied 12V DC power adapter is connected.
- 2. Status LED**
This LED will be active when a solid link has been established between the sender and receiver units.
- 3. Red ST Fiber Connector**
Connect the Fiber cable that will be used to receive the Red signal to this connector.
- 4. Clock ST Fiber Connector**
Connect the Fiber cable that will be used to receive the Clock signal to this connector.
- 5. Blue ST Fiber Connector**
Connect the Fiber cable that will be used to receive the Blue signal to this connector.
- 6. Green ST Fiber Connector**
Connect the Fiber cable that will be used to receive the Green signal to this connector.
- 7. DDC CAT-5e Connector**
The CAT-5e that will carry the DDC information needs to be connected between the sender and receiver units.
- 8. DVI Output**
Connect the DVI monitor to this connector. This connector is limited to a digital single link DVI signal only.
- 9. +12V DC Power Connector**
Connect the included 12V DC power adapter to this connector.

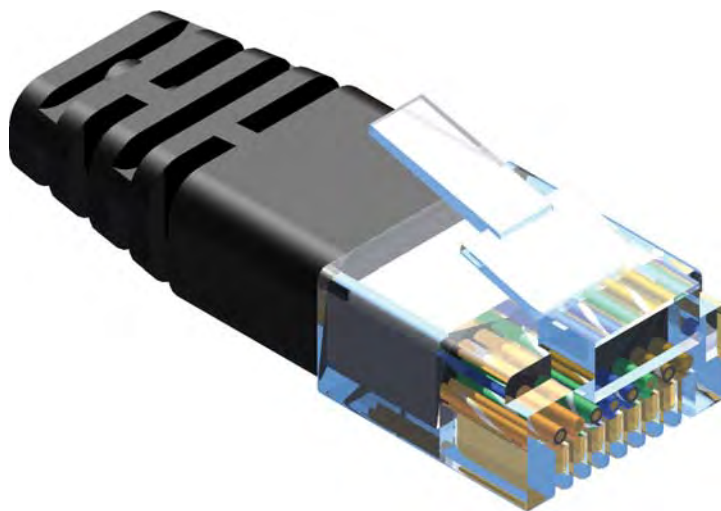
CONNECTING AND OPERATING THE DVI•1000ST

How to Connect the DVI•1000ST

1. Connect the DVI 1000 ST sender unit to the DVI source using the supplied cables.
2. Connect the DVI 1000 ST receiver unit to your DVI display.
3. Connect the four fiber optics and one CAT5 cable between the sender and receiver.
4. Plug the 12VDC power supplies into the DVI 1000 ST receiver.
5. You should see a beautiful picture.

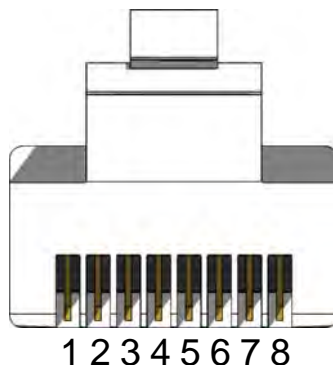
* Cable Requirement - 50 or 62.5 micron multi-mode fiber optics cable

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	165 MHz
Input Video Signal	1.2 Volts p-p
Input DDC Signal	5 Volts p-p (TTL)
Single Link Range	1920 x 1200
DVI Input/Output Connector Type	DVI-D
Link Connector	RJ-45
Power Consumption	15 Watts (max.)
Power Supply	12VDC
Dimensions	8.25"D x 9.125 "W x 1.25"H
Shipping Weight	10 Lbs