

HD-1000 Extender

Model # EXT-HD-1000 USER MANUAL



www.gefen.com

1080P HOMI

(IDT/

HD DVD



ASKING FOR ASSISTANCE

Technical Support:

Telephone (818) 772-9100

(800) 545-6900

Fax (818) 772-9120

Technical Support Hours:

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

Write To:

Gefen Inc. c/o Customer Service 20600 Nordhoff Street

Chatsworth, CA 91311

www.gefen.com support@gefen.com

Notice

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

HD-1000 is a trademark of Gefen Inc. **HDMI** is a trademark of HDMI.org

TABLE OF CONTENTS

- 1. Introduction / Operation Notes
- 2. Features
- 3. Sender Panel Descriptions
- 4. Receiver Panel Descriptions
- 5. Connecting and Operating the HD-1000
- 6. Network Cable Wiring Diagram
- 7. Specifications
- 8. Warranty

INTRODUCTION

The Gefen HD-1000 allows an HDMI video signal to be extended up to 330 feet (1640 w/o HDCP) using multi-mode LC-LC fiber optic cable. Fiber Optics technology allows the HD-1000 to carry video signals over long distances that are not possible with other technologies. Fiber Optic cables are immune to video signal corruption from electromagnetic interference (EMI), ensuring a crystal clear picture.

How It Works

The HD•1000S sender unit sits next to your set-top box or DVD player source. Cables supplied with the HD•1000 connect your HDMI™ 1.3 source to the sender unit. The display plugs into the back of the receiver unit. One CAT-5 cable and a multi mode LC fiber optic cable connect the Sender and the Receiver units to each other.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE HD-1000

- 50 or 62.5 micron multi-mode fiber optic cable is required for operation of the HD-1000.
- Maximum extension range of 330 feet (100 meters) when the source requires HDCP. One CAT-5, CAT-5e or CAT6 cable is used to transmit DDC and HDCP data back to the source.
- Maximum range of 1640 feet (500 meters) when the source does not require HDCP. This scenario does not require the CAT-5, CAT5e or CAT-6 cable if the source does not require DDC information. If DDC is required, the use of an EDID storage device (part# EXT-DVI-EDIDN, EXT-DVI-EDIDP) can be used to transmit DDC information back to the source.
- HDMI 1.3 compliant (please see FEATURES section on page 2 for supported HDMI 1.3 features).
- HDCP compliant
- Compatible with all HDMI and DVI* displays.

NOTE: *When used with a DVI to HDMI adapter

FEATURES

Features

- Extends high definition HDMI compliant devices up to 330 feet (100 meters)
- Uses a 4 strand multi mode LC-LC fiber optic cable for HDMI and a CAT5e cable for DDC/control signals
- Extends range of HDMI by equalizing signals
- HDCP and HDMI compliant with HDMI 1.3 Features
- Supports resolutions up to 1080p, 2K, and 1920 x 1200

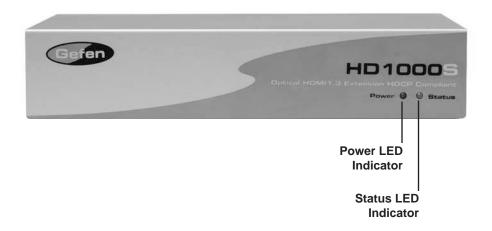
HDMI 1.3 Supported Features

- 12-bit/channel RGB Deep Color support
- CEC protocol support
- Lip-Sync pass-through
- Dolby TrueHD, DTS-HD pass-through
- xvYCC pass-through

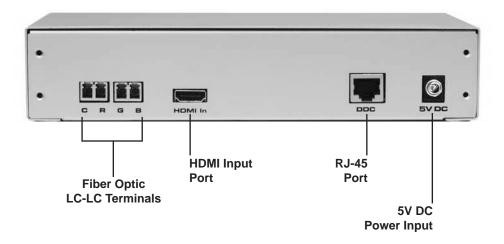
Includes:

- (1) HD-1000S Sender unit
- (1) HD-1000R Receiver unit
- (2) 5V DC Power Supply
- (1) 6 ft HDMI cable (M-M)
- (1) User's Manual

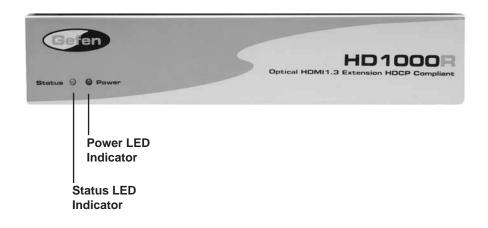
Front Panel



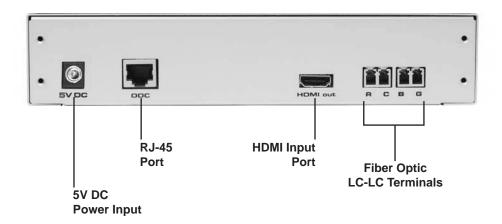
Back Panel



Front Panel



Back Panel



CONNECTING AND OPERATING THE HD-1000

How To Connect The HD-1000

- Connect the HDMI source to the HD-1000 sender unit using the supplied HDMI cable.
- 2. Connect a user supplied CAT-5, CAT-5e or CAT-6 cable to the sender unit.
- Connect four user supplied multi-mode LC terminated fiber optic cables into HD-1000 sender unit.

NOTE: 50 or 62.5 micron multi-mode fiber optic cable is required for operation of the HD-1000.

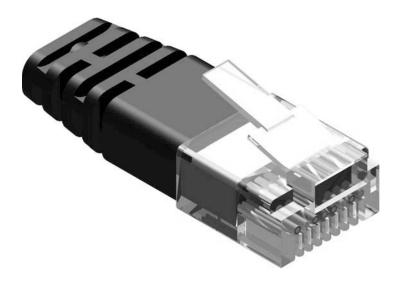
- Connect the other end of the CAT-5, CAT-5e or CAT-6 cable into the HD-1000 receiver unit.
- Connect the other ends of all four multi-mode LC terminated fiber optic cables into the HD-1000 receiver unit.

NOTE: Please take careful note of the labeling above each fiber optic port on both the sending and receiving HD-1000 units. The most common user error is to mis-match the fiber optic cable connections on each end, which results in no video being transmitted.

- Connect the display to the HD-1000 receiver unit using a user supplied HDMI cable.
- 7. Connect the included 5V DC power supplies into both the HD-1000 sending unit and receiving units.
- 8. Power on the display, followed by the source.

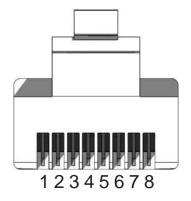
No further adjustments are necessary to operate the HD-1000.

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.