

Gefen[®]

®

HDMI[®] CAT5 Extreme

EXT-HDMI-CAT5X
USER MANUAL



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ASKING FOR ASSISTANCE

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Notice

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INTRODUCTION

The HDMI CAT5 Extreme extends your HDTV display up to 200 feet (60m) away from your HDTV source using two CAT-5 cables. It is equipped with HDMI® (high definition multimedia interface) connectors and is capable of supporting DVI (digital visual interface) equipment when used with a HDMI to DVI Adapter, providing greater flexibility and options when integrating several home theater components

How It Works

The HDMI CAT-5 Extender sender unit sits next to your computer, set-top box or DVD player source. Cables supplied with the HDMI CAT5 Extreme connect your DVI or HDMI source to the send unit. The HDMI CAT-5 Extender receive unit sits next to your HDTV display - up to 200 feet (60m) away. The display plugs into the back of the HDMI CAT-5 Extender receiver unit. Two CAT-5 cables the sender and the receiver units to each other.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE HDMI CAT5 EXTREME

- The HDMI CAT5 Extreme is housed in a metal box for better RF shielding
- For 1080i video, your CAT-5, CAT5e or CAT-6 cable should not exceed 200 feet (60m)
- For 1080p video, your CAT-5, CAT5e or CAT-6 cable should not exceed 150 feet (45m)

FEATURES

Features

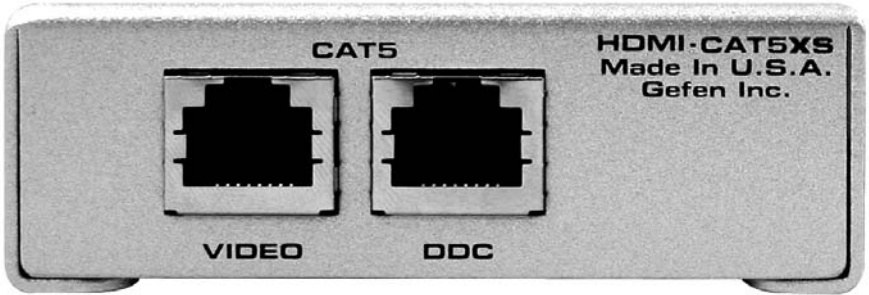
- Extends high definition displays up to 200 feet (60 meters) from the source at 1080i
- Extends high definition displays up to 150 feet (45 meters) from the source at 1080p
- Improved compensation for cable skew
- Eliminates equipment noise in the viewing environment
- Supports resolutions up to 1080p, 2K, and 1920 x 1200
- Audio and video are transmitted digitally over the CAT-5e cable for zero signal loss
- HDMI/HDCP compliant

Includes:

- (1) HDMI CAT5 Extreme Sender
- (1) HDMI CAT5 Extreme Receiver
- (1) 6 ft HDMI to HDMI Cable M-M
- (2) HDMI CAT5 Extreme Wall mounts
- (2) 5V DC power supply

HDMI CAT5 EXTREME SENDER PANEL DESCRIPTIONS

Front Panel



RJ-45 Input
Port - Video

RJ-45 Input
Port - DDC

Back Panel



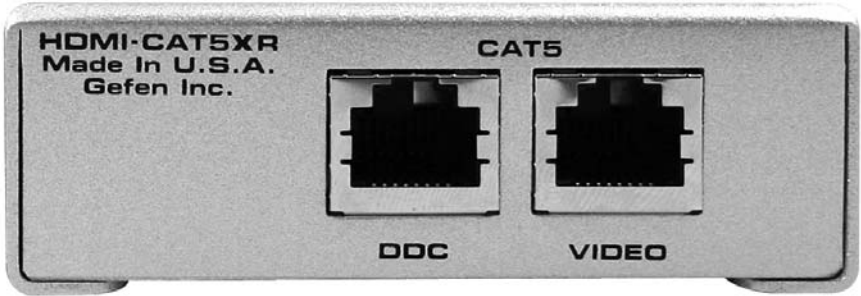
5V DC
Power Input

Power LED
Indicator

HDMI In

HDMI CAT5 EXTREME RECEIVER PANEL DESCRIPTIONS

Front Panel



RJ-45 Input
Port - DDC

RJ-45 Input
Port - Video

Back Panel



HDMI Out

Power LED
Indicator

5V DC
Power Input

CONNECTING AND OPERATING THE HDMI CAT5 EXTREME

How to Connect the HDMI CAT5 Extreme

- 1 Connect your source to the HDMI CAT5 Extreme sender unit using the supplied HDMI cable.
- 2 Connect your display to the HDMI CAT5 Extreme receiver unit using a user supplied HDMI cable.
- 3 Connect the HDMI CAT5 Extreme sender and receiver units together using a user supplied CAT-5e cable.
- 4 Plug the included 5V DC power supplies into the HDMI CAT5 Extreme sender and receiver units.
- 5 If there is no image or video noise on the display, please refer to the DIP SWITCH Usage Guide in the following section to adjust the video signal.

* Please ensure that all cables are properly connected. Gefen recommends TIA/EIA-568-B specifications for all CAT-5, CAT-5e or CAT-6 terminations. Please see page 8 for details.

DIP SWITCH USAGE GUIDE

The sender and receiver of the HDMI CAT5 Extreme both contain a set of DIP SWITCHES located underneath each unit. Peeling back the silver sticker on the bottom of each unit will reveal the DIP SWITCH bank. These service switches are used to boost and equalize the signal to best match the conditions in your setup. (*Note: Adjustments should be done with the source and display on. Switches 3 and 4 on both sender and receiver banks are not used.)

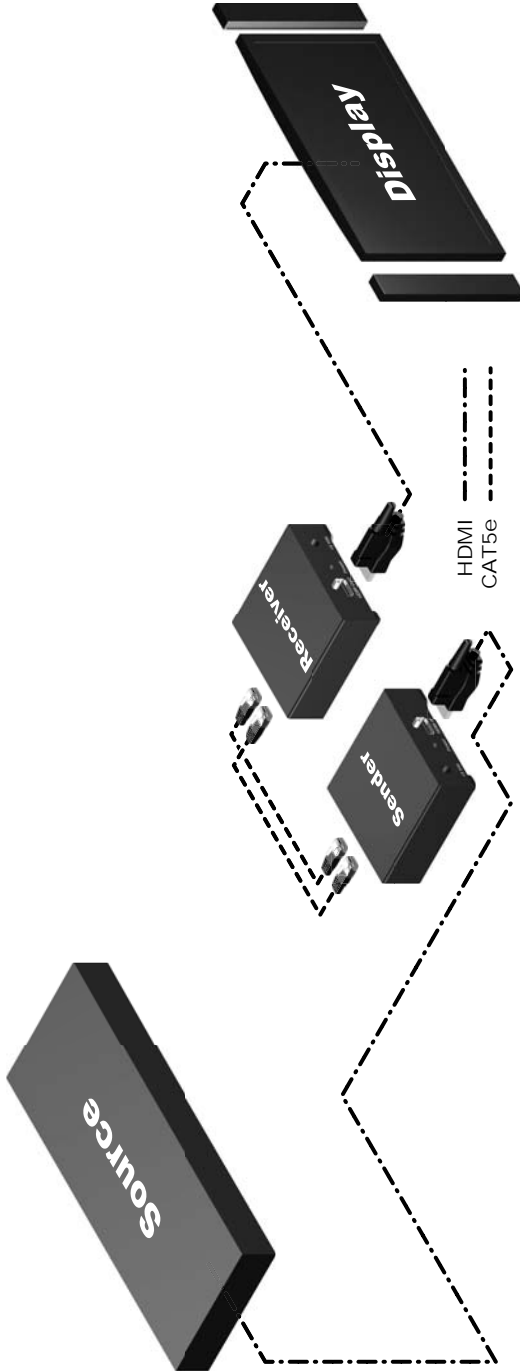
Sender DIP SWITCH Settings		
Setting	Switch 1	Switch 2
No Boost	OFF	ON
Normal Boost (Default)	OFF	OFF
Strong Boost	ON	OFF
Undefined	ON	ON

Receiver DIP SWITCH Settings		
Setting	Switch 1	Switch 2
No EQ (Default)	OFF	OFF
EQ Setting 2	ON	OFF
EQ Setting 3	OFF	ON
Maximum EQ	ON	ON

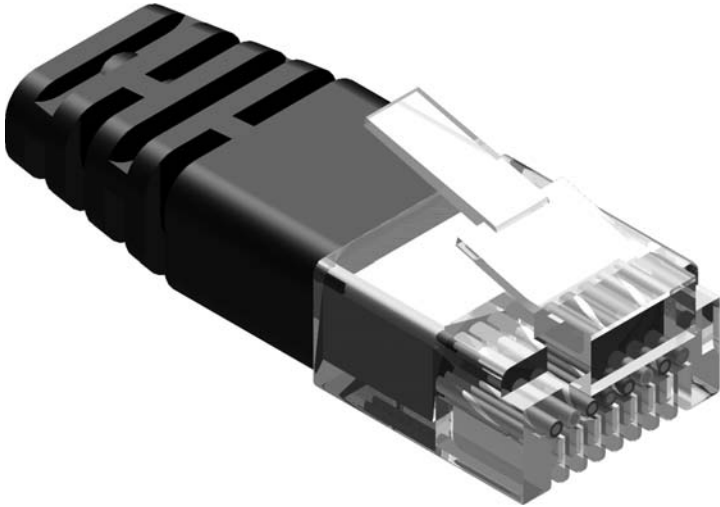
Adjustment Guidelines:

1. Strong boost should not be used on stranded cables. A strong boost will cause pixelation or no picture on these cables.
2. Using the wrong settings will not damage the units; it will either produce no image or a noisy image.
3. To eliminate the possibility of cross talk and interference, cables must be terminated with TIA/EIA-568-B specifications.

WIRING DIAGRAM

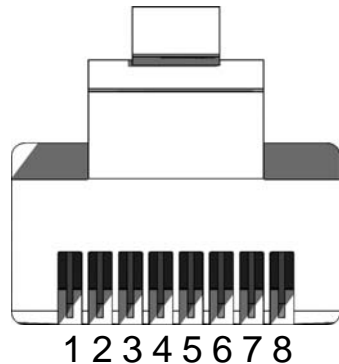


NETWORK CABLE WIRING DIAGRAM



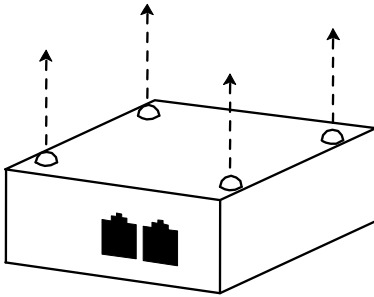
Gefen has specifically engineered their products to work with the TIA/EIA-568-B specification. Please adhere to the table below when field terminating cable for use with Gefen products. Failure to do so may produce unexpected results and reduced performance.

Pin	Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown



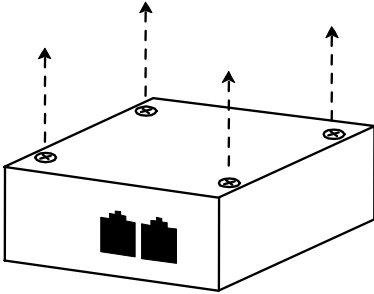
Category 5 cabling comes in stranded and solid core types. Gefen recommends using solid core cabling.

Mounting Plate Installation



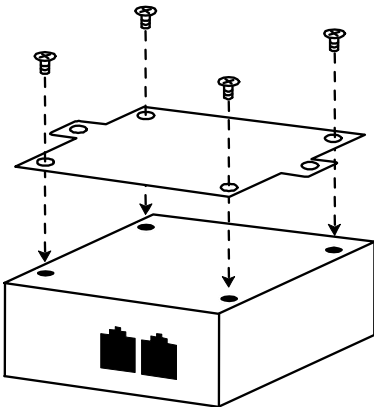
1

Remove the rubber feet covering the screws off the bottom of the unit.



2

Remove the screws.



3

Line up the mounting plates and screw it on to the unit.

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	1080p / 1920 x 1200
HDMI Connector Type	Type A 19 pin female
Link Connector	RJ-45
Power Consumption	20 Watts (max)
Power Supply	5V DC
Dimensions	3.4" W x 1.25" H x 3.25" D
Shipping Weight	3 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. 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.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and 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 web 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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