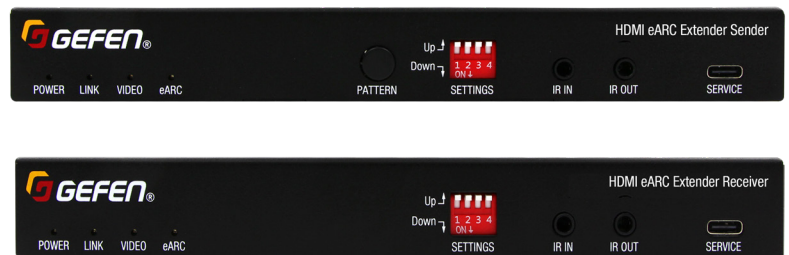


GF-EXT-HDe-HBT3



HDMI eARC HDBT 3.0 Extender

User Manual

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Important Safety Instructions

GENERAL SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

Contacting Gefen Technical Support

Technical Support

1-760-438-7000

Monday - Friday, 5:00 a.m. to 4:00 p.m. PST

Email

support@gefen.com

Web

<http://www.niceforyou.com>

Mailing Address

Nice North America LLC

c/o Customer Service

5919 Sea Otter Place, Suite 100

Carlsbad, CA 92010 USA

Warranty Information

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Warranty section of the Nice website at <http://www.niceforyou.com/na/warranty-and-returns>.

This product uses software that is subject to open source licenses, including one or more of the General Public License Version 2 and Version 2.1, Lesser General Public License Version 2.1 and Version 3, BSD, and BSD-style licenses. Distribution and use of this product is subject to the license terms and limitations of liability provided in those licenses. Specific license terms and Copyright Notifications are provided in the source code.

For three years from date of activation of this product, any party may request, and we will supply, for software covered by an applicable license (e.g. GPL or LGPL), a complete machine-readable copy of the corresponding open source code on a medium customarily used for software interchange. The following software and libraries are included with this product and subject to their respective open source licenses:

- lwIP
- jQuery

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Features & Specifications

GF-EXT-HDe-HBT3

- HDMI 2.0b, HDCP 2.3 compliant
- Built-in HDBT 3.0 technology supports transmission of 4K@60Hz 4:4:4 8-bit, RS-232, IR, Ethernet, optical audio and eARC/ARC audio up to 330ft/100m
- Additional HDMI loop-out on the transmitter with simple 4K-to-1080P scaler built-in
- Supports HDR formats up to 4K@60Hz, including HLG, HDR10, HDR10+, and Dolby Vision
- Supports eARC audio formats, including Dolby Atmos and DTS:X
- Supports two bandwidth modes according to different cable setup. This can be configured via extender front panel:
 - In high-bandwidth mode, it allows use of CAT6a (foiled twisted pair) cable up to 330ft/100m
 - In low-bandwidth mode, it allows use of lower spec CAT5e or CAT6 cable up to 230ft/70m
- Supports generation of both non-HDCP and HDCP 2.3 encrypted pattern to test setup before use
- Supports eARC and ARC audio return
 - If both source and sink TV support eARC, it would transmit eARC audio
 - If both source and sink TV support ARC, or one supports ARC and the other supports eARC, it would transmit ARC audio
 - If neither source nor sink TV supports ARC, it would not transmit returned audio
- Optionally, supports OPTICAL audio return up to 5.1ch
- Optionally, supports HDMI audio de-embedding in the transmitter side, via both 3.5 mm analog out and Toslink digital audio output
- Supports bi-directional control, including IR, RS-232, CEC, and Ethernet pass-through
- Supports bi-directional PoC, power supply could be connected at either end
- Firmware upgrades
- Plug and play

Features & Specifications

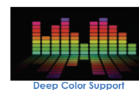
Specifications

Specification	Description
Input/Output Port	Transmitter: 1x HDMI IN, 1x HDMI OUT, 1x HDBT OUT, 1x OPTICAL OUT, 1x AUDIO OUT, 1x IR IN, 1x IR OUT, 1x RS-232, 1x ETHERNET, 1x FW (USB-C), 1x DC 12V IN Receiver: 1x HDMI OUT, 1x HDBT IN, 1x OPTICAL IN, 1x IR IN, 1x IR OUT, 1x RS-232, 1x ETHERNET, 1x FW (USB-C), 1x DC 12V IN
Input/Output Signal Type	HDMI with 4K@60Hz 4:4:4 8-bit, HDCP 2.3 compatibility
Input/Output Resolution Supported	VESA: 800 x 600 ⁸ , 1024 x 768 ⁸ , 1280 x 768 ⁸ , 1280 x 800 ⁸ , 1280 x 960 ⁸ , 1280 x 1024 ⁸ , 1360 x 768 ⁸ , 1366 x 768 ⁸ , 1440 x 900 ⁸ , 1600 x 900 ⁸ , 1600 x 1200 ⁸ , 1680 x 1050 ⁸ , 1920 x 1200 ⁸ , 2048 x 1152 ⁸ SMPTE: 1280 x 720P ^{6,7,8} , 1920 x 1080P ^{6,7,8} , 3840 x 2160 ^{2,3,5,6,8} , 4096 x 2160 ^{2,3,5,6,8} 1 = at 23.98Hz, 2 = at 24Hz, 3 = at 25Hz, 4 = at 29.97Hz, 5 = at 30Hz, 6 = at 50Hz, 7 = at 59.94Hz, 8 = at 60Hz
HDR	HDR10, HDR10+, HLG, and Dolby Vision (low-latency mode)
Maximum Data Rate	18Gbps
Maximum Pixel Clock	600MHz
Audio Format Supported	HDMI: Supports all HDMI 2.0 formats including multi-channel PCM, Dolby True-HD and DTS-HD master audio; ARC Mode: Supports 5.1-ch compressed audio (such as Dolby Digital, DTS 5.1, and Dolby Digital Plus), and 2.0-ch uncompressed PCM audio; eARC Mode: Up to 8-ch L-PCM of 24 bit, 192kHz audio; Supports encoded audio formats, such as Dolby Atmos and DTS-X; OPTICAL Audio Return Mode: Supports 5.1-ch compressed audio, such as Dolby Digital, DTS 5.1, and Dolby Digital Plus, and 2.0-ch uncompressed PCM audio; OPTICAL De-embed Mode: Supports 2.0-ch uncompressed PCM audio; AUDIO OUT: PCM 2.0
Measurements	TX/RX Dimensions W x D x H: 190mm x 115mm x 23mm (7.5in x 4.5in x 0.91in)
Product Weight	TX/RX: 0.59kg (1.30lbs)
Power Supply	DC 12V/2A
Power Consumption (Max.)	20.04 watts
Operating Temperature	0° C – 45° C / 32° F – 113° F
Storage Temperature	-20° C – 70° C / -4° F – 158° F
Relative Humidity	10% – 90% RH (no condensation)
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) ±4kV (Contact discharge)

Package Contents

The GF-EXT-HDe-HBT3 HDMI eARC HDBT 3.0 Extender ships with the items listed below. If any of these items are not present in the box when opened, immediately contact your dealer or Gefen.

- 1x GF-EXT-HDe-HBT3-TX Sender
- 1x GF-EXT-HDe-HBT3-RX Receiver
- 1x DC 12V/2A Power Supply with US, EU, UK, AU Power Plugs
- 2x Phoenix Terminal 3-pin, 3.5 mm
- 8x Screw (KM3*4)



Introduction - GF-EXT-HDe-HBT3

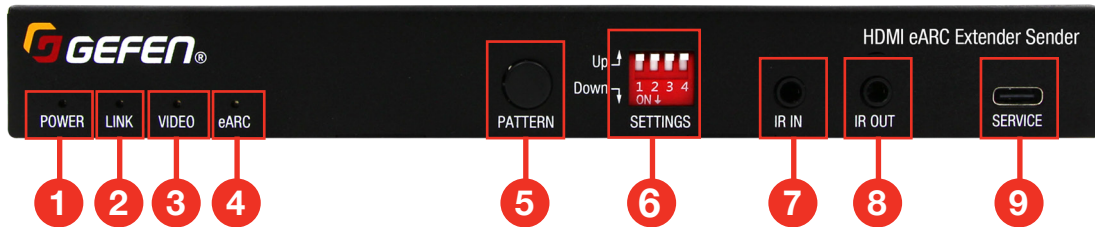
When picture and sound quality truly matter, the Gefen GF-EXT-HDe-HBT3 delivers uncompromised clarity and control across long runs. Powered by HDBaseT 3.0 technology, it extends 4K @ 60 Hz 4:4:4 video, eARC/ARC audio, and Ethernet up to 100 meters (330 feet) over a single CAT6a cable.

With full HDR10+, Dolby Vision, and HLG support, plus flexible analog and optical audio outputs, it maintains studio-quality color and sound from source to display. EDID management, signal diagnostics, and a built-in pattern generator streamline setup for integrators.

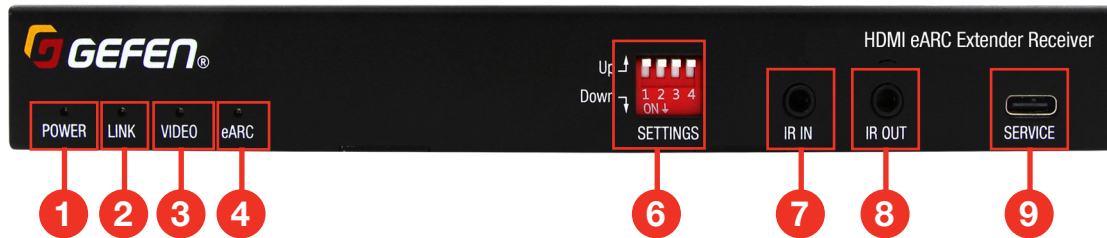
Whether in a home theater, boardroom, or broadcast suite, the GF-EXT-HDe-HBT3 is built to perform with precision; preserving every detail, frame, and frequency along the way.

GF-EXT-HDe-HBT3 Sender and Receiver Front Panel

Sender



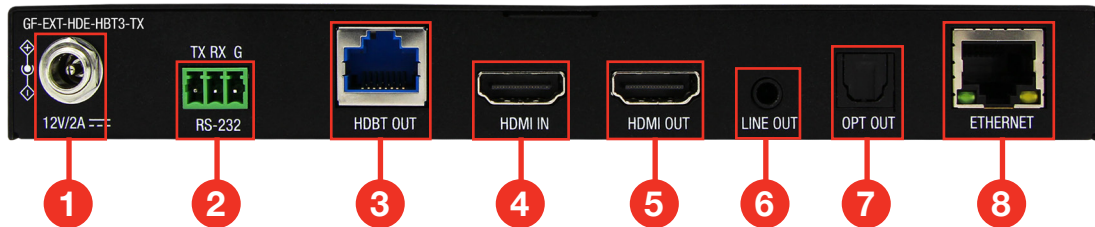
Receiver



ID	Name	Description
1	POWER LED	Illuminates blue when the device is powered ON.
2	LINK LED	ON: Link between sender and receiver is working properly. OFF/Blinking: Link error or no link.
3	VIDEO LED	GREEN: Source video is being transmitted. RED: Pattern video with HDCP is being transmitted. BLUE: Pattern video without HDCP is being transmitted. OFF: No video is being transmitted.
4	eARC LED	ON: The eARC audio is being transmitted. OFF: No eARC audio is being transmitted.
5	PATTERN Button (TX only)	The default mode is Source video mode. • Hold the button for about 3 seconds to enter/exit Pattern video mode. • Short press the button to switch between HDCP-encrypted and no HDCP-encrypted signals in Pattern mode. Pattern video mode is usually used for testing video transmission of the extender. See "Test Pattern Generation" on page 20 for more information.
6	Service	USB Type-C port. Connect to a PC for firmware updates and EDID management.
7	IR IN	Connect to the optional IR receiver.
8	IR OUT	Connect to the optional sender.
9	Service	USB Type-C port. Connect to a PC for firmware upgrade.

GF-EXT-HDe-HBT3 Sender and Receiver Rear Panel

Sender



Receiver



ID	Name	Description
1	12V/2A	Connect to the included DC 12V/2A power adapter.
2	RS-232	Connect 3.5 mm Phoenix Terminal male and RS-232 communication interface.
3	HDBT OUT	Connect to the HDBT IN port on the receiver.
4	HDMI IN	Connect to an HDMI source device.
5	HDMI OUT	Connect to an HDMI display device.
6	LINE OUT	Connect to an audio receiver. When set the extender to OPTICAL audio return mode, this port will output the audio coming from OPTICAL IN. When set the extender to OPTICAL de-embedded mode, this port will output the de-embedded audio from HDMI IN.
7	OPT OUT	Connect to the OPT IN port on an audio receiver.
8	ETHERNET	Connect to a PC/local area network for Ethernet pass-through.
9	HDBT IN	Connect to the HDBT OUT port on the sender.
10	OPT IN	Connect to the OPT OUT port on a display.

GF-EXT-HDe-HBT3 DIP Switch Configurations

The 4-pin SETTINGS switch on the front panel of the sender and receiver configures input HDCP, RS-232 mode, and input EDID. By default, pins 1 to 4 are set to the "Off" or "Up" position.

All switches in the
"Off" or "Up" position



All switches in the "On"
or "Down" position



Sender:

Function	Dip Switch Position			
	1	2	3	4
eARC/ARC audio return	Up	Up	—	—
OPTICAL audio return	Down	Up	—	—
OPTICAL audio de-embed	Down	Down	—	—
Upgrade Valens	—	—	Up	—
Upgrade MCU	—	—	Down	—
High-bandwidth mode	—	—	—	Up
Low-bandwidth mode	—	—	—	Down

Receiver:

Function	Dip Switch Position			
	1	2	3	4
eARC/ARC audio return	Up	Up	—	—
OPTICAL audio return	Down	Up	—	—
OPTICAL/LINE audio de-embed	Down	Down	—	—
Upgrade Valens	—	—	Up	—
Upgrade MCU	—	—	Down	—

GF-EXT-HDe-HBT3 Connections

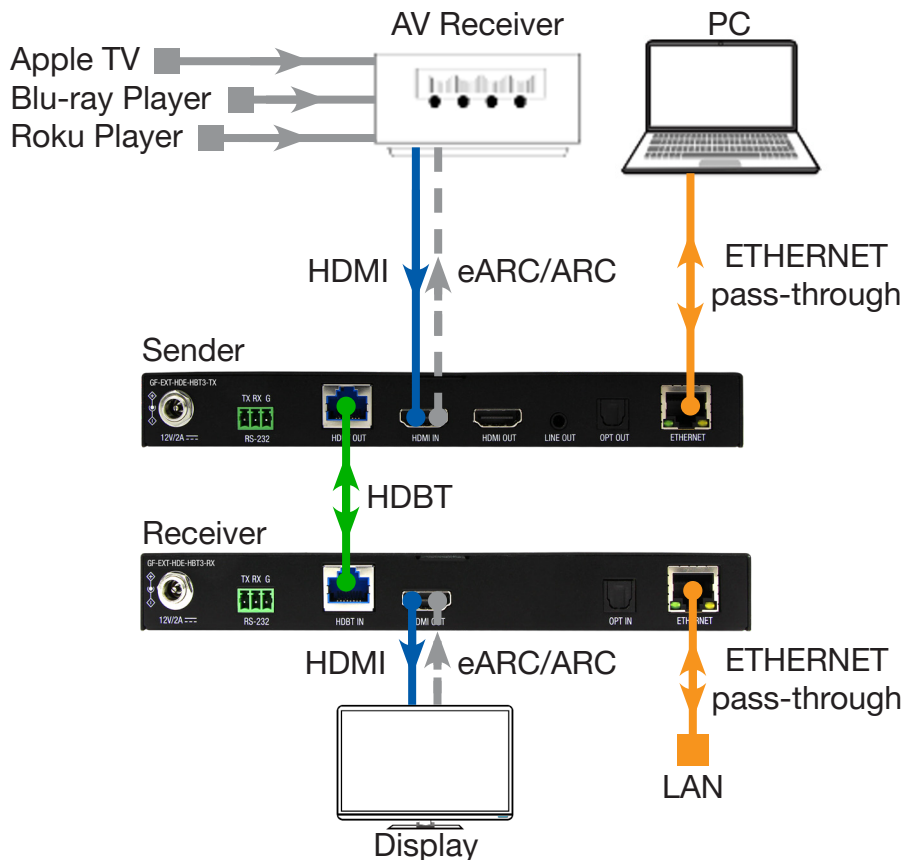
The GF-EXT-HDe-HBT3 can be configured for three different modes:

- eARC/ARC mode
- OPTICAL audio return mode
- OPTICAL audio-de-embedded mode

Follow the steps below to configure the GF-EXT-HDe-HBT3 for eARC/ARC mode:

When configuring eARC/ARC channel feed by TV, make sure the AV System and TV support eARC/ARC function, and that the function is set to "enable." CEC should also be set to "enable."

1. Set the DIP switch settings on both the sender and the receiver to enable eARC/ARC audio return (see "GF-EXT-HDe-HBT3 DIP Switch Configurations").
2. Connect the AV System and TV through eARC/ARC-enabled HDMI ports on sender and receiver respectively.
3. Connect the HDBT OUT port on the sender to the HDBT IN port on the receiver using CAT6a or better cabling.
4. Set CEC function on TV to ON.
5. Switch the AV System to eARC/ARC channel.
6. Connect the HDMI IN port on the sender to the HDMI OUT port on the TV.

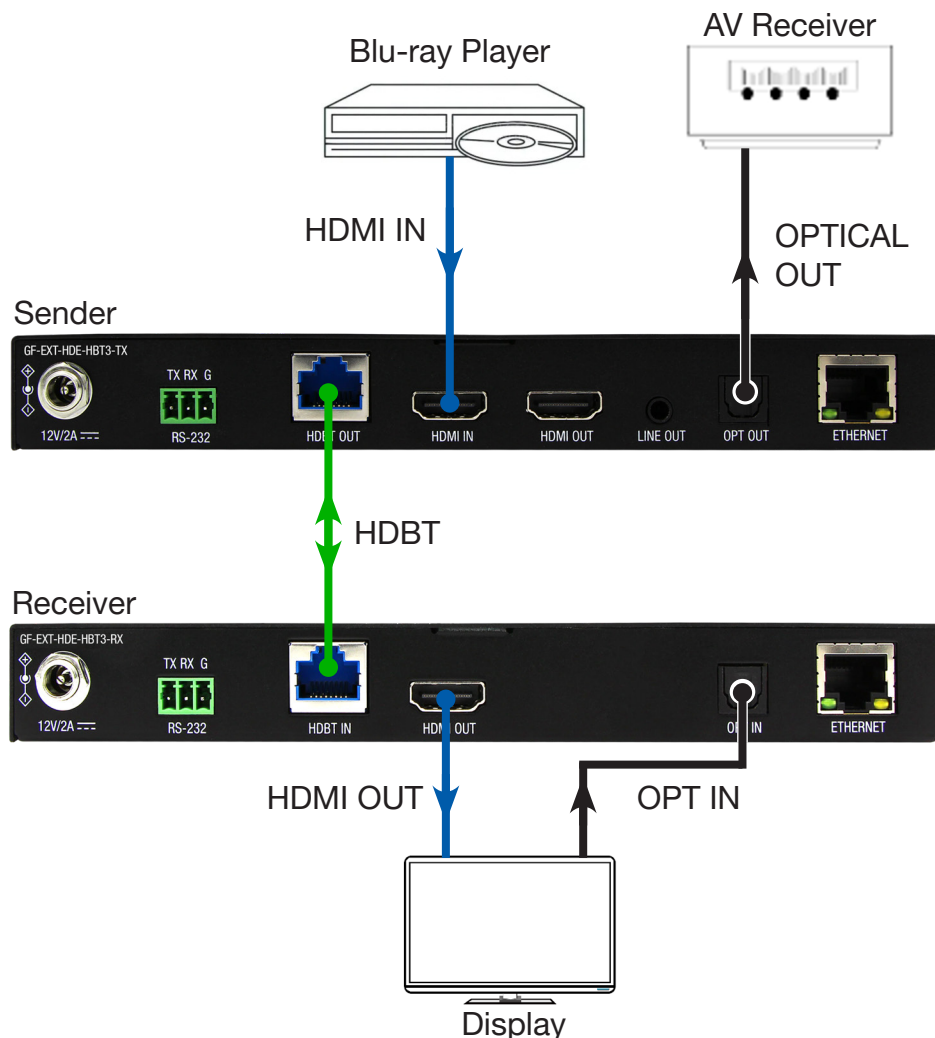


GF-EXT-HDe-HBT3 Connections

Follow the steps below to configure the GF-EXT-HDe-HBT3 for **OPTICAL Audio Return mode**:

NOTE: In this mode, audio signal from OPTICAL IN port will also be transmitted to AUDIO OUT port, and output analog audio signal. If audio signal is compressed audio, AUDIO OUT port will be muted. EDID and HPD is pass-through in this mode.

1. Set the DIP switch settings on both the sender and the receiver to OPTICAL audio return mode (see "GF-EXT-HDe-HBT3 DIP Switch Configurations").
2. Connect an audio receiver to the OPTICAL OUT port on the sender.
3. Connect an audio source to the OPTICAL IN port on the receiver.
4. Connect a CAT6a cable from the HDBT OUT port on the sender to the HDBT IN port on the receiver.
5. Connect the power adapter to the sender or the receiver.
6. Power ON all attached devices. Audio signal from OPTICAL IN port will be transmitted to OPTICAL OUT port.

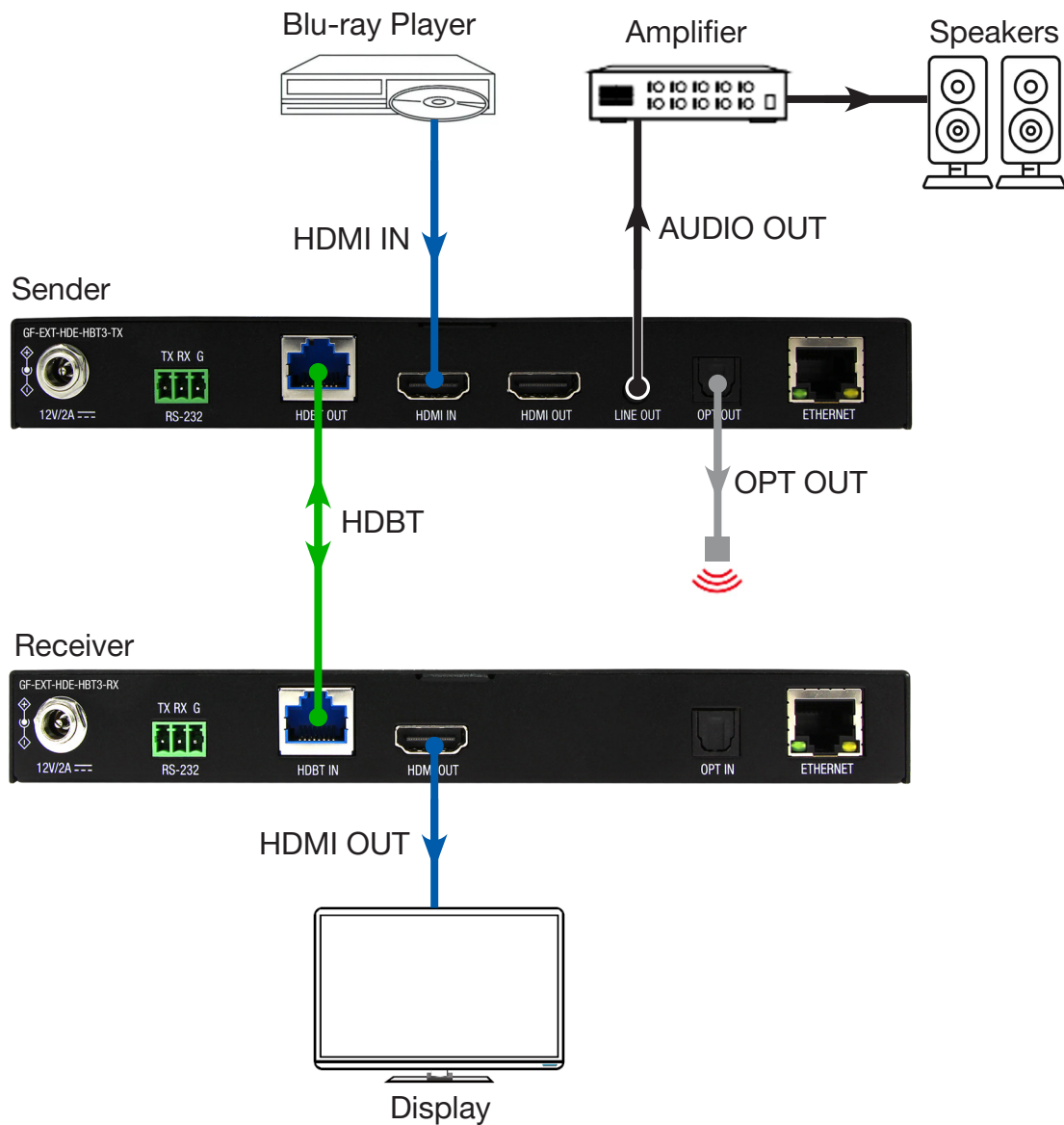


GF-EXT-HDe-HBT3 Connections

Follow the steps below to configure the GF-EXT-HDe-HBT3 for **OPTICAL Audio De-embedded mode**:

When the DIP switches are set to OPTICAL audio de-embedding mode, the audio receiver connected to OPTICAL OUT port and AUDIO OUT port will output the de-embedding audio from HDMI IN.

NOTE: In this mode, the extender will automatically utilize a Gefen internal EDID and will only support PCM 2.0CH. It will also keep a source signal always active by keeping HPD high.



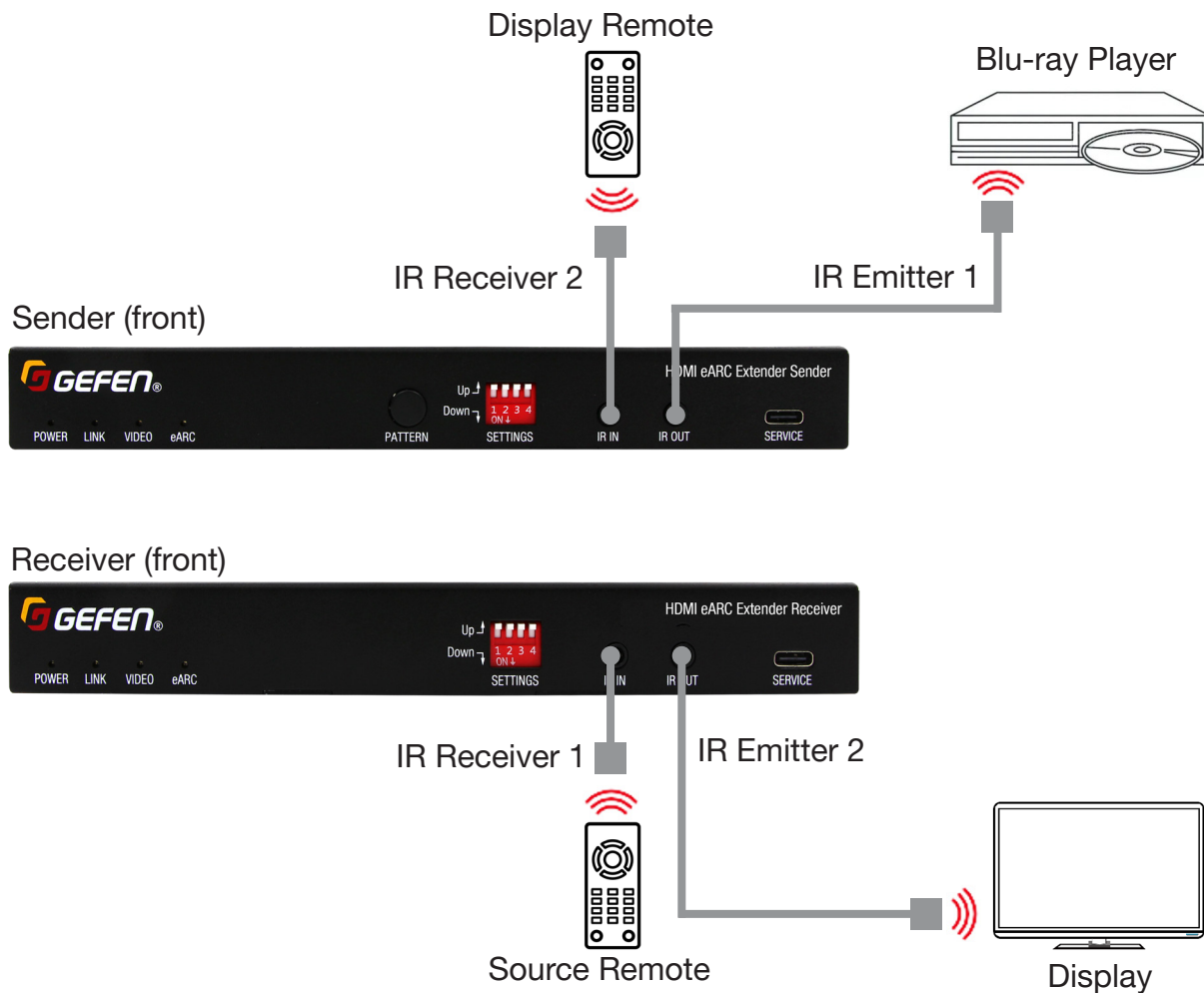
GF-EXT-HDe-HBT3 Connections

IR Control

Follow the steps below to connect the IR emitter(s) and receiver(s):

NOTE: The IR Emmitter (EXT-IREMIT) and IR Receiver (EXT-RMT-EXTIRN) are not included with this product. These options are available for purchase from your Gefen distributor.

1. Connect IR Emitter 1 to the IR OUT port on the sender.
2. Connect IR Emitter 2 to the IR OUT port on the receiver.
3. Connect IR Receiver 1 to IR IN port on the receiver.
4. Connect IR Receiver 2 to the IR IN port on the sender.



GF-EXT-HDe-HBT3 Connections

Transmission Distance

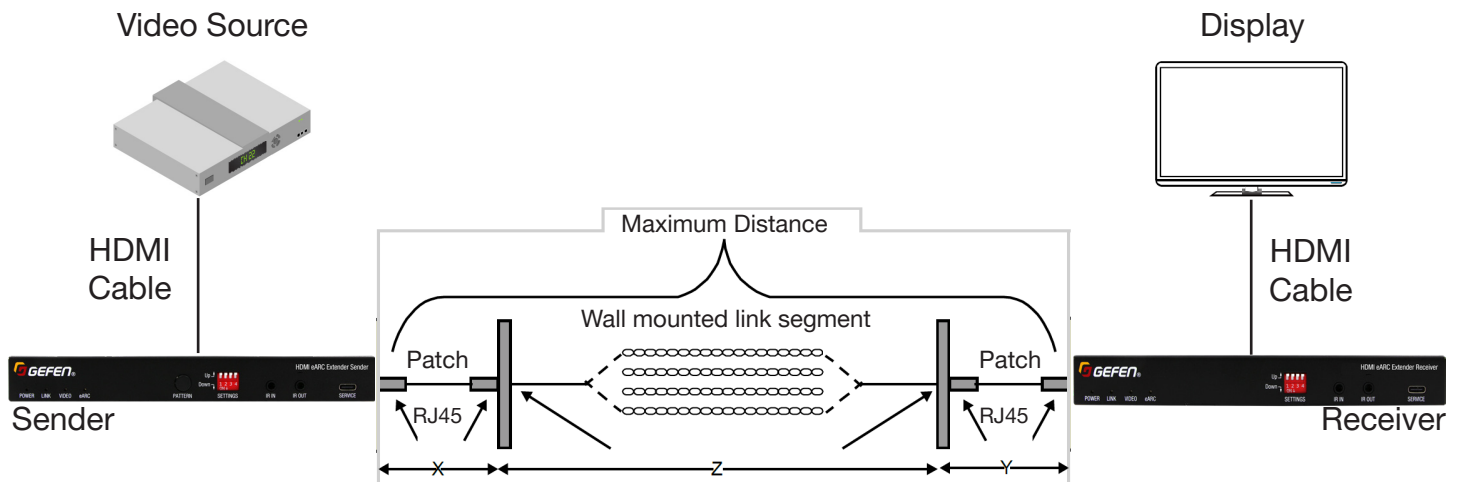
- Straight-through category cable wired to T568B standard is recommended
- For maximum HDMI 2.0 resolution, recommended cable is: CAT6a/7 U/FTP, F/FTP or S/FTP

Cable Type	Range	Supported Video
CAT5e/6	60 m (197 ft)	4K@60Hz 4:4:4 24 bpp
	80 m (262 ft)	4K@60Hz 4:2:0 36 bpp
CAT6a (U/FTP, F/FTP or S/FTP)	100 m (330 ft)	4K@60Hz 4:2:0 36 bpp 4K@60Hz 4:4:4 24 bpp

Use Patches

Patches may be used in the installation, and the patches will obviously affect the transmission distance. Limits and distances are as follows:

- Support up to 2 patch cables, each not exceeding 5 m (16 ft)
- Patches must be installed on both ends of the device, as shown in the diagram below



The standard specifies the following lengths for the three-segment cable installation:

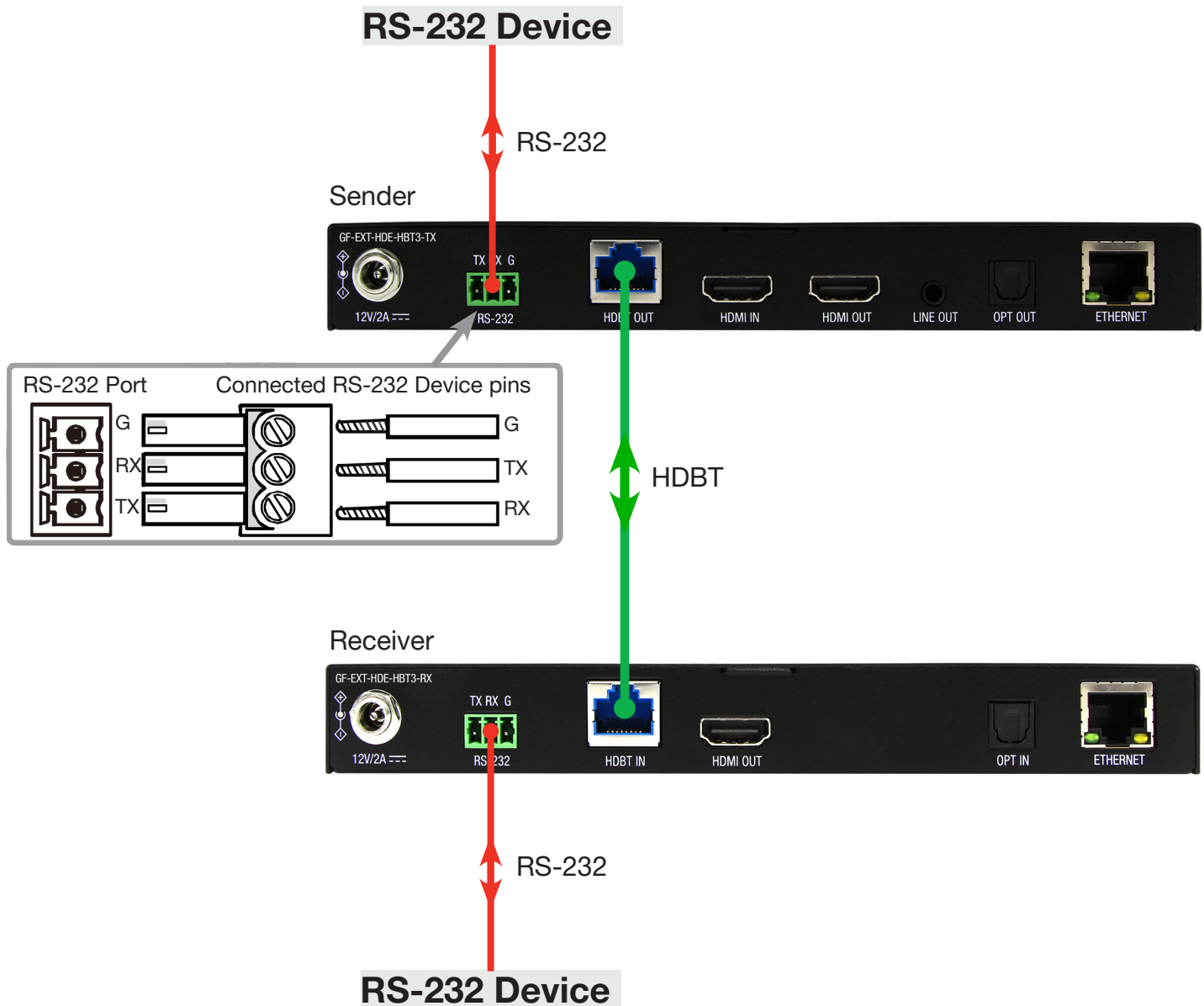
- $X = \text{Left-side patch cable length} \leq 5 \text{ m (16 ft)}$
- $Y = \text{Right-side patch cable length} \leq 5 \text{ m (16 ft)}$
- $Z = \text{Wall segment} \leq \text{Maximum Distance} - X - Y \text{ m}$

Cable Type	Range	Supported Video
CAT5e/6	50 m (164 ft) with Patches	4K@60Hz 4:4:4 24 bpp
	80 m (262 ft) with Patches	4K@60Hz 4:2:0 36 bpp
CAT6a (U/FTP, F/FTP or S/FTP)	90 m (295 ft) with Patches	4K@60Hz 4:4:4 24 bpp
	100 m (330 ft) with Patches	4K@60Hz 4:2:0 36 bpp

NOTE: The use of patches introduces a transmission distance loss of 10 m (33 ft).

GF-EXT-HDe-HBT3 RS-232 Operation

The RS-232 ports support bi-directional pass-through, allowing RS-232 data to transfer between the sender and the receiver. Before operation, ensure that pin 2 on the sender **SETTINGS** switch is set to the "Up" position.



LED Status

The **Power**, **Link**, **In** and/or **Out** LED indicators on the Sender and Receiver units provide basic information on the current status of each unit.

The information in the tables below applies to both the Sender and the Receiver units.

Power LED	Description
Solid blue ●	The Sender/Receiver unit is powered.
Off ○	Check the power supply and the Link connection between the Sender and the Receiver unit.

Link LED	Description
Solid green ●	Link integrity is good between the Sender and the Receiver unit.
Off ○	Check the power supply and the Link connection between the Sender and the Receiver unit.

Video LED	Description
Solid green ●	Source video signal is being transmitted.
Solid red ●	Pattern video with HDCP is being transmitted.
Solid blue ●	Pattern video without HDCP is being transmitted.
Off ○	No video is being transmitted.

eARC LED	Description
Solid green ●	The eARC audio is being transmitted.
Off ○	No eARC audio is being transmitted.

Test Pattern Generation

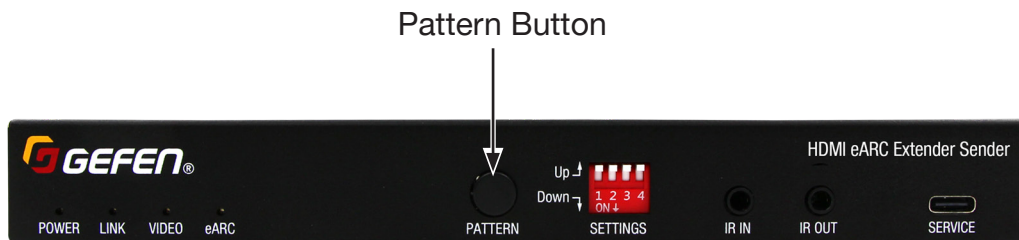
The GF-EXT-HDe-HBT3 is capable of generating a test pattern video signal, with different HDCP capabilities. This feature is generally used to test setup before use, and to help in troubleshooting.

To generate a test pattern, press and hold the Pattern Button on the sender front panel for about 3 seconds pattern generation mode.

In this mode, short press the Pattern Button to switch between non-HDCP video and HDCP 2.2 encrypted video. When the test pattern is with non-HDCP, the VIDEO LED will light blue, and the sender will output a black and white bar pattern.

When the test pattern is with HDCP 2.2, the VIDEO LED of the extender will light red, and the extender will output a checkerboard pattern.

To exit pattern generation mode, press and hold the Pattern Button on the sender front panel for about 3 seconds.



Firmware Update Instructions

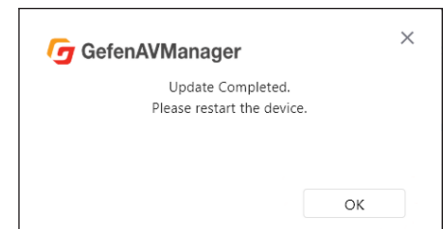
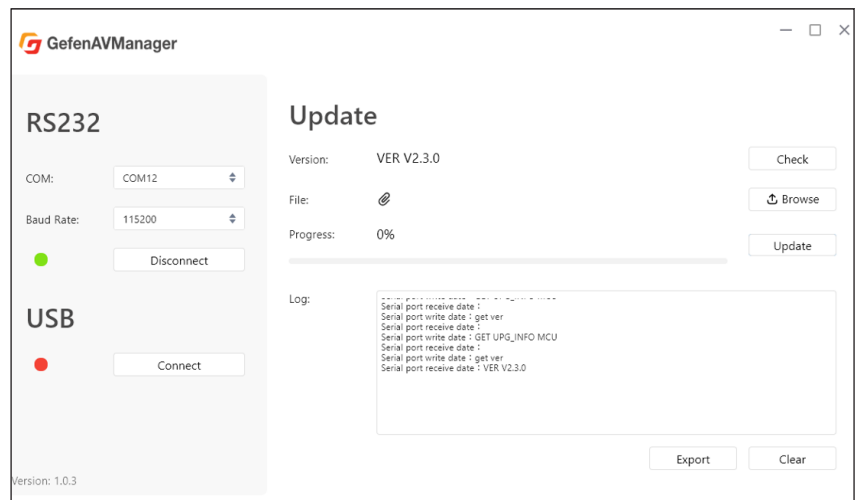
To update the firmware:

NOTE: Sender and receiver should each be updated separately. To ensure proper operation, always update both units.

1. A Windows PC that is running Gefen AV Manager software needs to be connected to the USB-C **Service** port on the sender or the receiver, whichever unit is being updated.

NOTE: The latest firmware and software are available for download from www.gefen.com downloads section.

2. Remove power from the unit to be updated by disconnecting the 12V DC power supply and the **Link** connector.
3. Make sure that the DIP switch 3 on the sender or the receiver is set in the ON (Down) position, then re-apply power to the unit by connecting the power supply to the 12V DC port and to an available electrical outlet. The power LED will glow to indicate that the unit is receiving power.
4. Connect a USB Type-A to USB Type-C cable from the PC to the **Service** port on the sender or the receiver to be updated.
5. Double-click **GefenAVManager** to open the update tool.
6. Select the COM port for the device and press **Connect**. If the update tool successfully connected with the device, the USB indicator will be green.
7. Press **Check** to check the current firmware version of the device.
8. Press **Browse** and select firmware file **GF-EXT-HDe-HBT3-TRX_FW-Vxx.zip**, then press **Open**.
9. Press **Update** to start the update process. When the update is successfully completed, a window will open indicating that the "Update Completed. Please restart the device."
10. Press **OK**.
11. Disconnect the power supply cable from the device, then re-connect it to cycle the power.
12. Press **Check** to check the current firmware information.



Troubleshooting

Use the table below to troubleshoot the GF-EXT-HDe-HBT3.

Issue	Check
No video or audio	Ensure that the HDMI cables are high-speed and securely connected.
No eARC signal	Confirm source supports eARC and TV eARC is enabled.
Optical audio missing	Confirm format is PCM 2CH; multi-channel not supported on OPTICAL OUT.
No PoC	Try switching the power supply to the opposite unit.
IR not working	Ensure that the IR eye and emitter are connected to correct ports.

Warranty Information

Nice North America warrants the equipment it manufactures to be free from defects in material and workmanship. If Gefen equipment fails because of such defects and Nice North America is notified within the specified warranty period from the documented date of purchase, Nice North America 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. 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. Warranty period begins on the date of purchase by the original end-purchaser, as indicated on the proof of purchase document. This Limited Warranty extends to the original end-user purchaser of the product, and is not transferable to any subsequent purchaser(s) or owner(s). Customers outside the continental United States of America are responsible for shipping charges to and from Nice North America.

1. Proof of sale may be required 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 damage resulting from any defect or omission in this manual, even if advised of the possibility of such damage. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen website at www.gefen.com.



support@gefen.com

Customer Service

760-438-7000
Monday – Friday, 5:00 a.m. – 4:00 p.m. PST

Nice North America

5919 Sea Otter Place, Suite 100
Carlsbad, CA 92010 USA



Niceforyou.com

