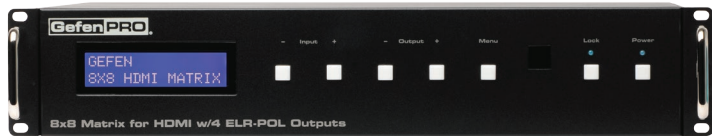




# 8x8 Matrix for HDMI with Four ELR-POL and Four HDMI Outputs



GEF-HDFST-848-4ELR

**Route any eight HDMI sources to any eight HDMI outputs and extend four HDMI outputs over one CAT-5e cable up to 330 feet (100 meters)**

The GefenPRO 8x8 Matrix with four ELR and four HDMI outputs routes up to eight Hi-Def sources at resolutions up to 1080p Full HD with Deep Color and multi-channel digital audio to any of eight HDTV displays, eliminating the need to disconnect and reconnect HDMI sources and displays. It features extension of four displays up to 330 feet (100 meters), using Gefen's ELR (Extra Long Range) and POL (Power Over Link) technologies. ELR extension on four outputs allows installation of displays over a single CAT-5e cable. POL eliminates the need to externally power the four included ELR receivers. The GefenPRO 8x8 Matrix supports 3DTV and advanced digital audio formats such as Dolby® TrueHD and DTS-HD Master Audio™. Each source is accessible at all times from any display by using the included IR Remote Control, the RS-232 port, IP (Telnet or Web GUI), or by using the front-panel push buttons.

## How It Works

Using HDMI cables, connect up to eight Hi-Def sources to the HDMI inputs on the matrix. Connect up to four HDTV displays to the HDMI outputs on the matrix and up to four HDTV displays to the supplied ELR-POL receivers. Use a single CAT-5e cable to connect each of the receivers to the matrix. An external power supply is not required because power is delivered by the matrix over the CAT-5e cables. 3D content can be displayed when connecting a 3DTV and 3D source. Connect the included AC power cord to the matrix and plug it into an available electrical outlet. Turn on the matrix by pressing the power switch. Apply power to sources and to the displays. The Hi-Def sources can now be routed to any display by using the IR remote control, RS-232 port, IP (Telnet or Web GUI), or by using the front-panel push buttons.

## Gefen FST

Fast Switching Technology (FST) is a Gefen software implementation for HDMI products. FST was created to improve the lengthy HDMI authentication process, based on the HDMI and HDCP specifications. FST allows connecting/disconnecting or turning any of the HDTV displays on or off without affecting other displays within the audio/video distribution system.

## Features\*

- Routes any eight Hi-Def sources to any of eight HD displays, independently
- Includes four ELR-POL receivers
- ELR technology allows extension up to 330 feet (100 meters)
- POL feature provides power to each ELR receiver
- Uses HDBaseT® technology
- Supports resolutions up to 1080p Full HD
- HDMI Features Supported:
  - HDMI compliant
  - 12-bit Deep Color
  - x.v. Color
  - LPCM 7.1 audio, Dolby® TrueHD and DTS-HD Master Audio™ pass-through
  - 3DTV pass-through
  - Lip Sync pass-through
- Gefen FST speeds up the HDCP authentication process
- Fast and Slow FST Modes
- Advanced EDID Management for rapid integration of sources and displays
- Ability to save and recall presets
- Supports DVI sources and displays
- Field-upgradeable firmware via IP
- Front Panel Switching
- IR Control via front panel sensor and back panel input (using EXT-RMT-EXTIRN)
- Serial (RS-232) control for automation
- IP Control via Web Server and Telnet
- Rack mountable (2U tall, rack ears included)
- Internal power supply with detachable IEC AC cord
- Back panel master power switch

## Specifications\*

- Maximum Pixel Clock: 225 MHz
- Matrix Video Input Connectors: (8) HDMI Type A 19-pin, female, locking
- Matrix Video Output Connectors: (4) HDMI Type A 19-pin, female, locking  
(4) ELR-POL RJ45, female
- Receiver ELR-POL Input Connector: (1) RJ45, female
- Receiver Video Output Connector: (1) HDMI Type A 19-pin, female, locking
- Power Indicator (Matrix/Receiver): LED, blue=On, red=Standby
- Lock Indicator (Matrix): LED, blue
- USB Port (Matrix): Mini-B, female
- Ethernet Port (Matrix): (1) RJ45, female, 10/100 BaseT
- RS-232 Port (Matrix): (1) DB-9, female
- IR Extender Port (Matrix): (1) 3.5mm mini-stereo jack
- Power Supply: Internal, 100V to 240V AC, 50/60 Hz, detachable IEC cord
- Power Consumption (Matrix): 120W (max.)
- Operating Temperature: 0 to + 40 °C
- Rack mounting requirements (Matrix): Standard 19" rack, 2U high
- Dimensions (Matrix - W x H x D): 17.25" x 3.5" x 12"  
(440mm x 89mm x 305mm)
- Dimensions (Receivers - W x H x D): 4.4" x 1.1" x 3.35"  
(110mm x 27mm x 85mm)
- Shipping Weight (1 Matrix and 4 Receivers): 37 lbs (16.8 kg)



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