



Features

- Extends all HD resolution up to 1080p (1,920 X 1,080) 60Hz up to 1.5 km (4,920 feet)
- Provides lossless and uncompressed image quality without frame dropping
- Single-mode fiber cable (9/125µm or 8/125µm)
- Supports HDMI 1.3a
- 24-bit color depth
- Digital & analog audio up to 7.1 channels 24-bit, 96 kHz
- Complies with HDCP & DDC Specifications
- Power adapters included
- Certifies FCC and CE standards for EMI/RFI

Applications

- Professional audio visual installations
- Home theater connectivity
- Public digital signage displays
- Airport/Train/Other mass-transit facilities
- Medical / distance learning theaters

HDMI & Digital or Analog Audio over a single fiber

The VX-1HDMI Optical extender offers long-distance transport of HDMI 1.3a up to 1.5 km with single mode fiber. The VX-1HDMI fiber extender also transports 7.1 channel digital audio along with the HDMI. The HDMI transmission link consists of an all fiber connection eliminating the need for any copper connections between the transmitting and receiving devices. The VX-1HDMI is designed to not only transport the HD video and audio, but also supports the transmission of the Display Data Channel (DDC) and High Definition Copy Protection (HDCP) over the same optical fiber.

The VX-1HDMI optical extender technology makes it possible to extend HDMI with the highest quality video performance well beyond the limitations of copper. In addition, a major benefit of fiber transmission is the fact that it virtually eliminates RFI/EMI that would otherwise degrade the quality of HD video over copper cable.

System Design

The VX-1HDMI transmitting device is installed near the High Definition source (Blu-Ray player, High Resolution Computer Graphics, etc.) and the VX-1HDMI Receiver is located near the High Definition Display. Simply connect the HDMI cables to the VX-1HDMI transmitter from the source and connect the VX-1HDMI receiver to the High Definition Display. Connect a single strand of single mode fiber (depending on distance) with SC optical connectors and the system will be ready to display crystal clear HDMI 1.3a, High Definition video with crisp 7.1 digital audio.

VX Series HDMI Signal Transport

HDMI v1.3a Compliant Optical Link Requiring a Single Fiber Optic Cable



DATASHEET

FIBER OPTICS

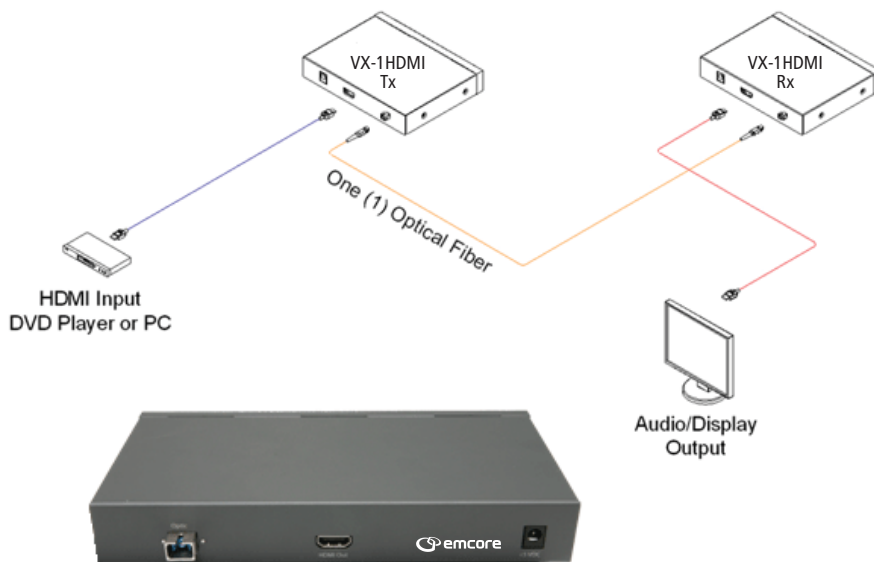
Ordering Information

Transmitter	Receiver
VX-1HDMI/XMT-SC	VX-1HDMI/RCV-SC

Optical Specifications

Transmitter (XMT) Specification	Minimum	Typical	Maximum	Units
Optical Wavelength		1310		nm
Optical Output Power	-13		-2	dBm
Receiver (RCV) Specification	Minimum	Typical	Maximum	Units
Receiver Sensitivity	-18		-3	dBm
Optical Budget	4		11	dB
Shared Specifications	Minimum	Typical	Maximum	Units
Fiber Type		Singlemode		
Range (Singlemode Fiber)	0	1500		m
Optical Connector		SC		

Connection Diagram



Video

Specifications	Values
Signal Type	Digital TMDS & Digital RGB
Graphic Resolution	1920 x 1080 @ 60 Hz (typical) 1920 x 1200 @ 60 Hz (max)
HDMI Version	1.3a
Color Depth	24-bit
Connector	HDMI
Compliance	HDCP DDC2B for EDID

Audio

Specifications	Values
Audio Formats	Digital
Signal Coding	24-bit
Surround Sound Support	Dolby Digital 7.1

General

Specifications	Values
Dimensions (L x W x H)	4.25" x 3.14" x 1.06" 107.95 x 79.76 x 26.92 mm
Weight	2 lbs. (907 g)
Operating Temperature	0° to +50°C
Storage Temperature	-10°C to +85°C
Humidity	5 to 85% (non-condensing)
Input Voltage	4.5 - 5.5 VDC
Power Consumption	2.4 - 4.4 Watts
Warranty	1 year

Compliance

