



Features

- Extends HDMI video resolutions up to 1080p 60Hz and graphic resolutions up to 1920x1200
- HDMI 1.3a compliant
- HDCP V1.2 compliant
- True Plug & Play - Passes HDCP, EDID & CEC.
- No EDID Learning Necessary
- IR extension via duplex data channel
- Diagnostic LED for power and fiber communication status
- Singlemode operation up to 12.4 mi (20 km)
- Multimode operation up 1,000 ft (305 m) using OM3 fiber
- Uses low profile LC optical connector

Applications

- Airport / Train / Information Displays
- Digital Signage / Video Walls
- Classrooms
- Medical OR Integration
- Home theater
- Hotel in-room entertainment centers

Uncompressed HDMI Video & IR Data over One Optical Fiber

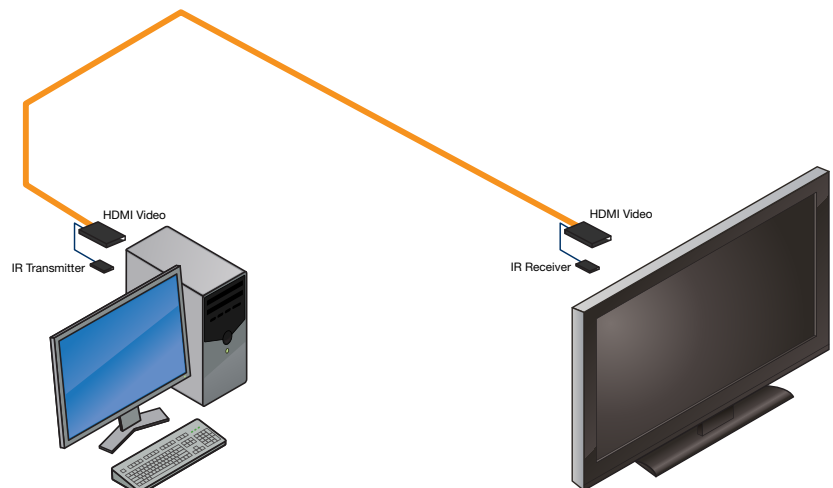
The VX-1HDMI-IR optical extender is a single fiber HDMI extender that can send 1 channel of HDMI and 1 channel of IR serial data up to 12.4 miles (20 km). The extenders are low profile units that transport over standard multimode or singlemode fiber using LC type optical connectors for a secure cable connection. LC connectors are the smallest and most widely used type. This allows the easiest installation possible through conduit or wall/ceiling mounted boom arms.

Video resolutions up to 1080p 60Hz and graphic resolutions up to 1920x1200 are possible over a single fiber. Both HDMI and IR data can be extended out to 12 miles without the need for distribution amplifiers, cable equalization or in-line repeaters that are normally associated with copper cable extension. The VX-1HDMI-IR is the most economical solution for sending a single channel of HDMI video over long distances.

True Plug & Play with HDCP

The VX-1HDMI-IR can work on any digital display and provide video resolutions up to 1080p 60Hz or graphics resolutions up to 1920x1200. EDID is managed by maintaining continuous EDID communication with the source, ensuring that it powers up properly and maintains video output. For HDMI signals with protected content, the VX-1HDMI-IR continuously authenticates HDCP compliance to support quick and reliable transmission across a fiber optic infrastructure.

System Diagram

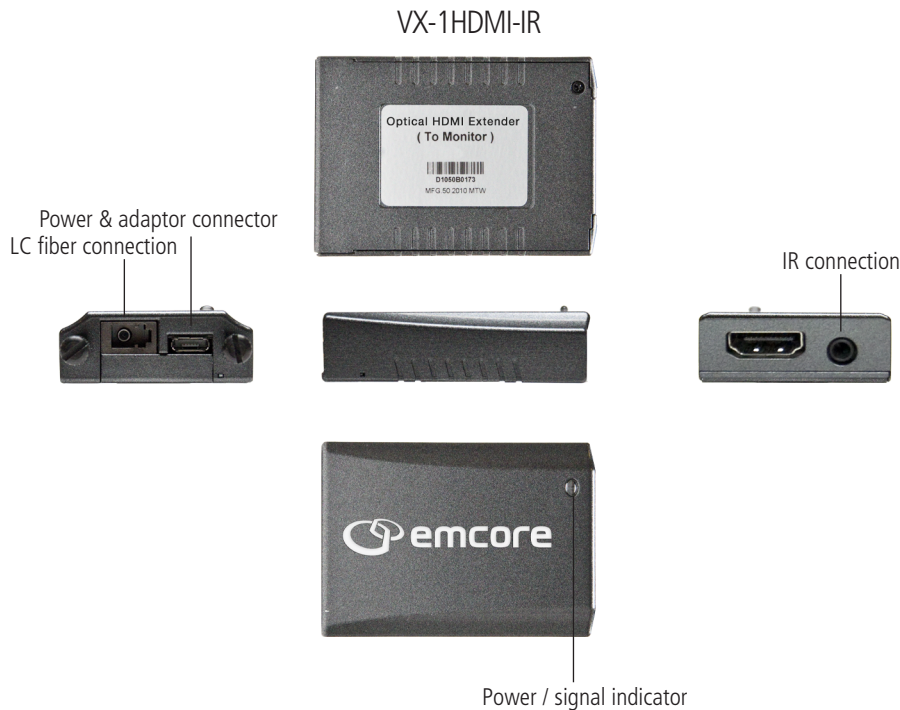


DATASHEET FIBER OPTICS

Ordering Information

Models	Description
VX-1HDMI-IR/XMT-MM-LC	Multimode HDMI transmitter with power supply
VX-1HDMI-IR/RCV-MM-LC	Multimode HDMI receiver with power supply
VX-1HDMI-IR/LINK-MM-LC	Multimode HDMI extender set with power supplies
VX-1HDMI-IR/XMT-SM-LC	Singlemode HDMI transmitter with power supply
VX-1HDMI-IR/RCV-SM-LC	Singlemode HDMI receiver with power supply
VX-1HDMI-IR/LINK-SM-LC	Singlemode HDMI extender set with power supplies

Connection Diagram



Video

Specifications	Values
HDMI Compliance	1.3a
HDCP Compliance	v1.2
EDID	Plug & Play
Max Resolution	PC - 1920 x 1200 HDTV - 1080p @ 60Hz
Connector Type	19 pin Type A HDMI (female)

Optical

Specifications	Values
Fiber Type	Singlemode or Multimode
Connector Type	LC
Data Channels	(1) Duplex & (2) one way, all high speed
Data Rate	6.25 Gbps
Loss Budget	<12 dB
Distance	Multimode up to 1,000ft (305m using OM3 fiber) Singlemode up to 12.4mi (20Km)

Data

Specifications	Values
Data Type	Serial via IR Connection
Connector Type	2.5mm barrel type (female)

General

Specifications	Values
Dimensions (L x W x H)	1.54" x 2.17" x 0.57" 39mm x 55mm x 14.5mm
Operating Temperature	0° to +50°C
Storage Temperature	20°C to +85°C
Humidity	10 to 90% (non-condensing)
Input Voltage	5 VDC
Power Consumption	<2W Max.
Housing Construction	2-Part Metal Enclosure
Monitoring	LED on TX & RX Rapid flash - Boot up Slow flash - Fiber disconnected Steady on - Link established
Warranty	1 Year

Compliance (pending)

