

VX-1HDMI-IR

HDMI with IR Fiber Optic Extender



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 10 km
- Multimode operation up 305 meters 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

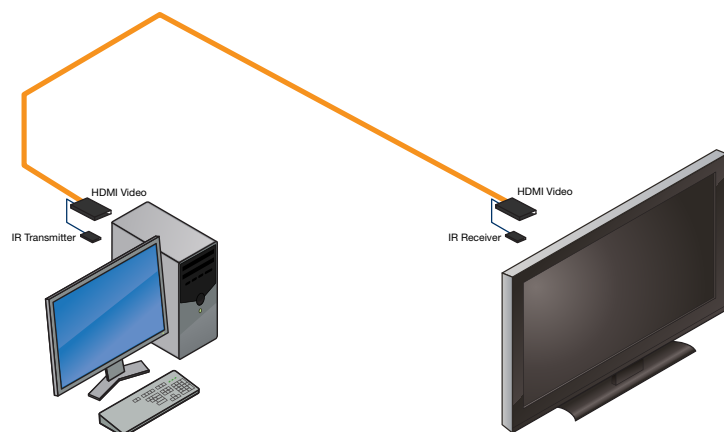
The VX-1HDMI-IR optical extender is a single fiber HDMI extender that can send 1 channel of HDMI and 1 channel of IR serial data up to 10 km. The extenders are low profile units that transport over standard multimode or singlemode fiber using LC type optical connectors for a secure cable connection. 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 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



VX-1HDMI-IR

HDMI with IR Fiber Optic Extender

Ordering Information

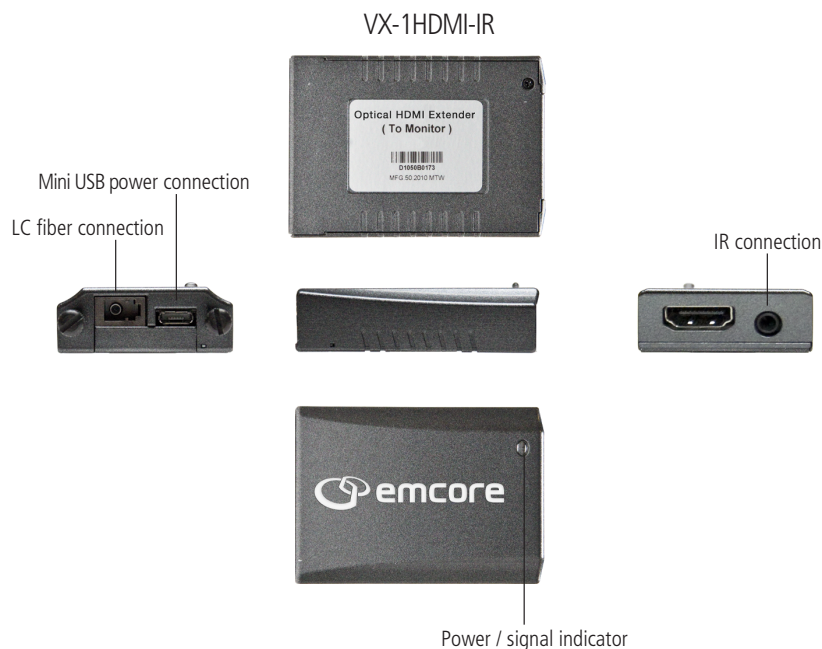
DVI Unit Transmitter	DVI Unit Receiver	DVI Unit Transmitter/Receiver Set
VX-1HDMI-IR/XMT-XX-LC	VX-1HDMI-IR/RCV-XX-LC	VX-1HDMI-IR/LINK-XX-LC
VX-1HDMI-IR/XMT-XX-LC-UN	VX-1HDMI-IR/RCV-XX-LC-UN	VX-1HDMI-IR/LINK-XX-LC-UN

Included For DVI Unit
PC-USB-MUSB
Power Cord for USB to Mini USB [P/N G0220-161]
PS-501 (with -UN model)
Universal 100-240VAC power supply and EU, USA, UK, AUS kit [P/N G0220-160]

- When ordering replace "XX" with one of the Fiber Type Options
- UN = With universal power supply
- Chromatic dispersion as well as other losses should also be taken into account
- Stated distances are the maximum range, shorter distance may require attenuation
- Standard connection type is UPC
- Multimode TX must be used with multimode RX and singlemode TX must be used with singlemode RX

Fiber Type "XX"	Wavelength (nm)	Data Rate	Optical Budget (db)	Distance (km)	Connector
MM	850/1310/1550	6.25 Gbps	<12	0.3	LC
SM	1490/1550/1310	6.25 Gbps	<12	10	LC

Connection Diagram



General

Specifications	Values
Dimensions	1.58" x 2.21" x 0.57"
Weight	3.12 oz.
Operating Temperature	0°C to +50°C
Storage Temperature	20°C to 85°C
Humidity	10 to 95% (non-condensing)
Input Voltage	1.8V DC
Power Consumption	1.0W Max.
Power Connector	Mini USB
Power Supply	Not required if the video source or the display can provide +5V 500ma on DVI pin 14
Monitoring	LED on - Tx & Rx Rapid flash - Boot up Gradual on/off - Fiber disconnect Steady on - Link established
Warranty	1 Year

Video

Specifications	Values
HDMI Compliance	1.3a
HDCP Compliance	v1.2
EDID	Plug & Play
Color Depth	24-bit

Audio

Specifications	Values
Embedded Digital Audio	Supported on the HDMI stream

Data

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

Compliance (pending)

