



FEATURES

- Supports HDTV resolutions up to 1080p, PC resolutions up to 1920x1200
- Supports cable lengths up to 2,000 meters (~ 1.2 miles)
- Supports multi-mode and single-mode fiber optic cables.
- Optical fiber transmission is immune to environmental signal noise
- Low RFI / EMI profile for sensitive applications
- User-programmable EDID memory, eliminates the need for DDC connection

Superior Performance - The DVI-7312 is a low-cost, high performance DVI Optical Extender capable of transporting high resolution DVI signals up to 2.0 kilometers (~ 1.2 miles). The unit consists of an optical transmitter module that converts the DVI input signals into light pulses for transmission over two strands of multi-mode or single-mode fiber optic cable, and an optical receiver module that converts the light pulses back to a DVI signal for display on a monitor or projector. A programmable memory chip in the transmitter module provides EDID support for any display, thereby eliminating the need for copper cables. These features make the DVI-7312 the perfect solution for any application that requires DVI signals to be extended over very long cable distances with flawless image quality.

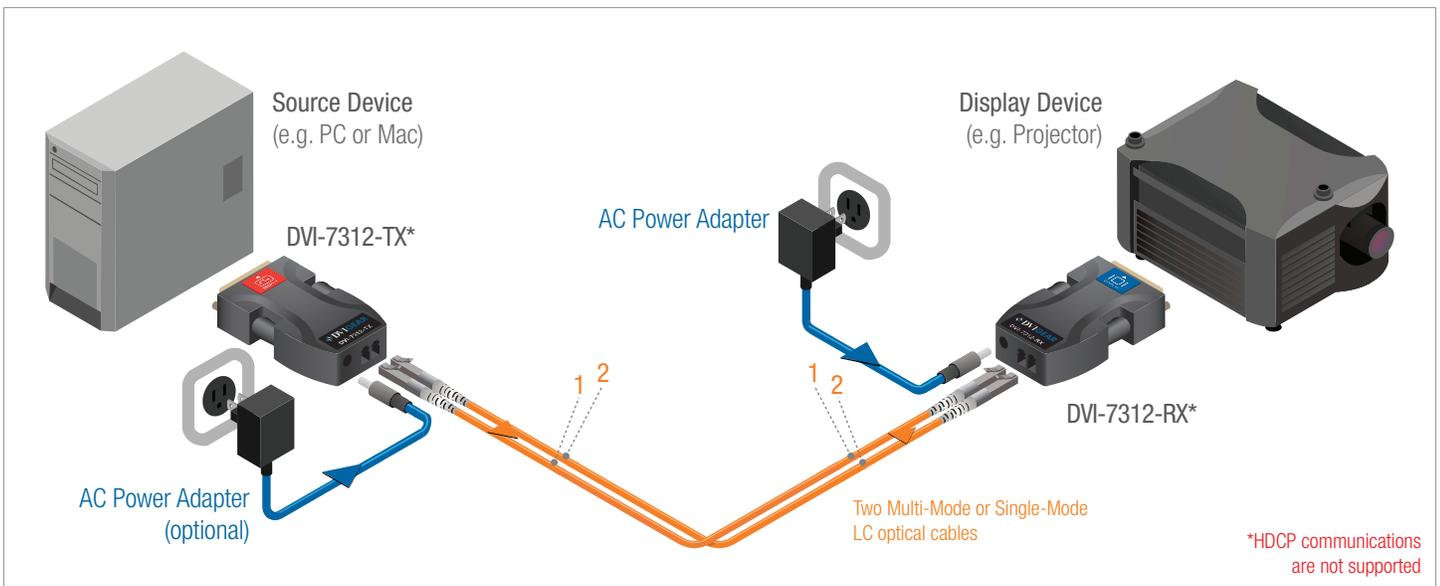
DVI-7312-TX / RX



Front View



Rear View



SPECIFICATIONS

Performance		
Compliance	DVI v1.0	
Maximum Pixel Clock Frequency	165 MHz	
Maximum Video Bit Rate	1.65 Gbps (single-link only)	
Supported Color Depth	8-bit	
Supported HDTV Formats	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, and 2048x1080	
Supported PC Resolutions	Up to 1600x1200 and 1920x1200	
Digital Audio Support	None	
Connections		
DVI Input / DVI Output	1x 18+1 DVI-D male connector	
Optical	2x LC fiber optic connectors	
Power Inputs	1x 3.5mm jack	
Optical		
Optical Technology / Wavelengths	WDM (Wavelength-Division Multiplexing)	
Optical Wavelength(s)	1310 nm, 1550 nm	
Optical Transmitter	Tx Module: 2x FP Laser Diodes, Class 1 laser product	
Optical Receiver	Rx Module: 2x InGaAs PIN Photo Diodes	
Optical Transmitter Output Power	-9 dBm (minimum) / -3 dBm (maximum)	
Optical Receiver Input Sensitivity	-24 dBm (minimum) / 0 dBm (maximum)	
Optical Link Power Budget	15.0 dB (minimum)	
Cable		
Fiber Cable Type / Max. Length	50/125µm LC Multi-Mode Fiber with 2x LC connectors / 500 meters 9/125µm LC Single-Mode Fiber with 2x LC connectors / 2,000 meters	
DVI Gear Fiber Cable	OFNP, Plenum Rated - additional data and custom lengths available on request	
Cable Jacket	OFNP, Plenum-rated, Black PVC Jacket	
Cable Outside Diameter	5.0 mm	
DDC Support		
EDID Support	An EDID memory built into the Tx module can learn and store the display's EDID info.	
HDCP Support	HDCP communications are NOT supported!	
Mechanical		
Construction	High-impact plastic enclosure with black satin finish	
Dimensions (L x W x H)	2.8" x 1.6" x 0.6" (70.1 mm x 41.0 mm x 15.4 mm)	
Net Weight	DVI-7312-TX: 1.1 oz. (32 g) DVI-7312-RX: 1.1 oz. (32 g)	
Environmental		
Temperature	Operating: 32° to +158° F (0° to +70°C)	Storage: -40° to +185° F (-40° to +85°C)
Humidity	Operating: 5% to 80% (non-condensing)	Storage: 5% to 95% (non-condensing)
Power Requirements		
Optical Transmitter	Tx module requires at least 360 ma of DC current from pin 14 of DVI (source) connector. Optional external power supply may be used if needed.	
Optical Receiver	Must be powered using the supplied external power supply	
External AC Power Adapter	Input: 100-240VAC / 50-60Hz 0.2A Output: 5VDC, 3.0A	
Power Consumption	DVI-7312-TX: 1.8 watts DVI-7312-RX: 1.4 watts	
Regulatory Approvals		
Fiber Optic Extender Unit	FCC, CE, RoHS	
AC Power Adapter	FCC, CE, UL, C-UL, CEC, GS, PSE, RoHS	
Warranty		
Limited Warranty	3 Years Parts and Labor	
Model Numbers		
DVI-7312	DVI Single-Link Fiber Optic Extender, 2x LC	
DVI-7312-TX	DVI Single-Link Fiber Optic Transmitter, 2x LC	
DVI-7312-RX	DVI Single-Link Fiber Optic Receiver, 2x LC	
DVI-CUST-OPT	2x LC, Plenum-rated, Single-Link DVI Fiber Optic Cable (length must be specified)	
Accessories Included		
1x External AC Power Adapter with USA plug, 1x User Guide		
Optional Accessories		
External AC Power Adapter (with USA, Euro, UK, or Australia plugs) for DVI-7312-TX Transmitter unit		