

# DDX 102

## DUAL LINK DVI FIBER OPTIC EXTENDER

- ▶ Transmits dual link DVI-D signals over two fiber optic cables
- ▶ All digital technology provides pixel-for-pixel performance with signals up to 2560x1600, including HDTV 1080p/60
- ▶ EDID Minder® automatically manages EDID communication between connected devices
- ▶ Transmitter and receiver are detachable from cables
- ▶ Direct device connection
- ▶ Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- ▶ Compatible with Extron 2LC OM4 MM P pre-terminated fiber optic cable assemblies available in various lengths from one meter (3.3 feet) to 60 meters (197 feet)



The Extron DDX 102 is a transmitter and receiver set that extends dual link DVI-D signals over fiber optic cabling. It uses all-digital technology to send DVI signals at resolutions up to 2560x1600, including HDTV 1080p/60, up to 500 meters (1,640 feet). The capabilities and compact size of the DDX 102 make it ideal for extending high resolution video content in a wide variety of applications.



**Extron® Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DDX 102** Dual Link DVI Fiber Optic Extender is an extremely compact transmitter and receiver set that provides an efficient solution for extending dual link DVI-D signals long distances over fiber optic cabling. It uses all digital technology to deliver perfect pixel-for-pixel transmission of DVI computer-video images up to 2560x1600, including HDTV 1080p/60. The transmitter and receiver work together to send dual link DVI signals up to 500 meters (1,640 feet) over two multimode cables, or single link DVI transmissions over a single cable.

The DDX 102 transmitter and receiver are housed in compact DVI cable-type clamshell enclosures, and connect to fiber optic cables via industry standard LC-type connectors. To simplify integration, cables can be run through conduits and other tight spaces before the transmitter and receiver are attached. Additionally, they connect directly to DVI source and display devices, eliminating the need for additional mounting hardware.

To ensure a reliable DVI connection, EDID Minder automatically manages EDID by maintaining continuous EDID communication with the source. EDID Minder ensures that the source powers up properly and reliably outputs content for display. The transmitter can be set to capture and store EDID data when connected to a display.

Designed for AV systems, the compact design of the economical DDX 102 allows for simplified integration in a wide variety of applications.

## FEATURES

- ▶ Transmits dual link DVI-D signals over two fiber optic cables
- ▶ Sends 2560x1600 and HDTV 1080p/60 signals up to 500 meters (1,640 feet) over multimode fiber optic cabling
- ▶ All digital technology provides pixel-for-pixel performance with signals up to 2560x1600, including HDTV 1080p/60
- ▶ EDID Minder automatically manages EDID communication between connected devices
- ▶ Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- ▶ Transmitter and receiver are detachable from cables
- ▶ Direct device connection
- ▶ Supports Single Link DVI-D signals over one fiber optic cable
- ▶ Compatible with Extron 2LC OM4 MM P pre-terminated fiber optic cable assemblies available in various lengths from one meter (3.3 feet) to 60 meters (197 feet)
- ▶ Energy-efficient, external universal power supply included

## SPECIFICATIONS

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER		
Number/type	1 fiber optic, 50/125 µm multimode or 62.5/125 µm multimode	
Connectors	2 female LC connectors	
Operating distance	Up to 1,640' (500 m) using multimode cable	
Nominal peak wavelength	850 nm	
Optical loss budget	9.5 dB, maximum	
VIDEO		
Gain	Unity	
Maximum data rate	10 Gbps (1.65 Gbps per color)	
Maximum pixel clock	330 MHz	
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz using single link Up to 2560x1600 @ 60 Hz using dual link	
Formats	RGB and YCbCr digital video	
Standards	DVI 1.0	
VIDEO INPUT – TRANSMITTER		
Number/signal type	1 single link or dual link DVI	
Connectors	1 male DVI-D	
VIDEO OUTPUT – RECEIVER		
Number/signal type	1 single link or dual link DVI	
Connectors	1 male DVI-D	
GENERAL		
Power supply	External: Input: 100-240 VAC, 50-60 Hz Output: 5 VDC, 3 A, 15 watts The source device's 5 VDC output on pin 14 of a DVI connector can power the transmitter.	
Power consumption		
Transmitter		
Device	2.0 watts, 5 VDC	
Receiver		
Device	1.7 watts, 5 VDC	
Enclosure type	Metal	
Enclosure dimensions	0.6" H x 1.5" W x 2.8" D (1.5 cm H x 3.9 cm W x 7.2 cm D) (Depth excludes DVI connector.)	
Product weight	0.7 lbs (0.3 kg) per Tx/Rx pair	
Shipping weight	1 lb (<1 kg) per Tx/Rx pair	
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Regulatory compliance		
Safety	CE	
EMV/EMC	CE, FCC Class A	
Environmental	Complies with the appropriate requirements of RoHS, WEEE.	
MTBF	30,000 hours	
Warranty	3 years parts and labor	
<b>NOTE:</b> All nominal levels are at ±10%.		
<b>Model</b>	<b>Version Description</b>	<b>Part number</b>
DDX 102 Rx	Dual Link DVI Fiber Optic Receiver	60-1328-13
DDX 102 Tx	Dual Link DVI Fiber Optic Transmitter	60-1328-12
2LC OM4 MM P	1 m (3.3 feet) to 60 m (197 feet)	26-671-xx

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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