

Multimode Fiber cable extenders supporting DVI signals

Part No: 9151 0003 (TX220-Pro), 9151 0004 (RX220-Pro) 9151 0005 (TX220-ST-Pro), 9151 0006 (RX220-ST-Pro)

Highlight features

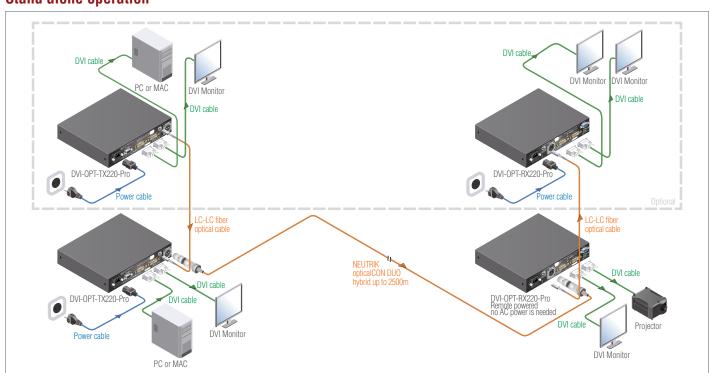
- Advanced EDID Management
- Serial port or front panel control
- Pixel Accurate Reclocking
- Remote powering option for receiver
- Several options for rack, furniture, or truss mounting



Designed for rental and professional use, the Lightware DVI-OPT 220-Pro series extenders can transmit DVI-D signals over multimode fiber cables for up to 2500 m distance. Using Single Fiber Technology the DVI-D signal is transmitted over one multimode 50/125 fiber core. Sources and display devices are galvanically isolated against ground loops and hum effects, and no delay occurs in the signal, the video image is transported without any frame latency. The Neutrik OpticalCON or ST fiber connectors ensure reliable operation in professional environments. The OpticalCON connectors are rugged, dust proof and very reliable, compatible with standard LC connectors.

<u>Cross compatibility</u> between Lightware fiber products is ensured thanks to our attentive design. In a standalone application DVI-OPT-220-Pro series can work together simply, but with Lightware's Hybrid Modular matrix concept, it is even possible to connect these extender boxes directly to the matrix router using an MX-DVI-OPT series input or output board.

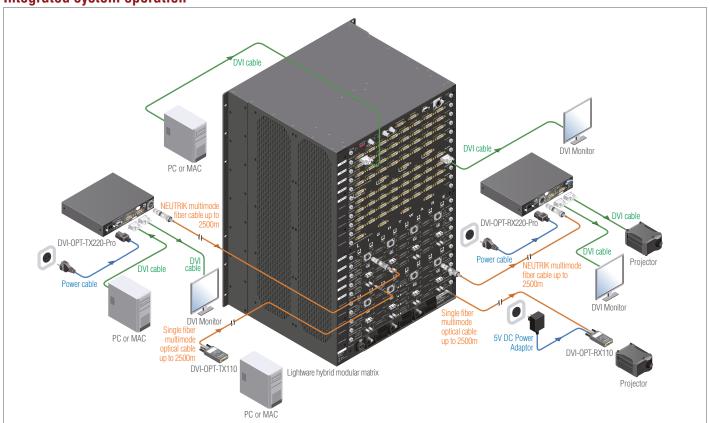
Stand alone operation



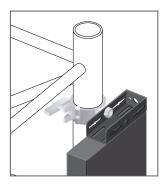
DVI-OPT-TX220-Pro, DVI-OPT-RX220-Pro DVI-OPT-TX220-ST-Pro, DVI-OPT-RX220-ST-Pro



Integrated system operation



Devices can be mounted several ways, depending on the application. Rack shelf and mounting bracket is available which offers easy mounting on truss systems with standard clamps or using the unit built in to furniture.

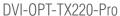




The receiver's power source can be switched to use the built-in local AC power supply, or to receive power remotely from the transmitter through special hybrid fibercopper cable (Neutrik 2M-4S75 only).

Transmitter and receiver back view







DVI-OPT-TX220-ST-Pro



DVI-OPT-RX220-Pro



DVI-OPT-RX220-ST-Pro

DVI-OPT-TX220-Pro, DVI-OPT-RX220-Pro DVI-OPT-TX220-ST-Pro, DVI-OPT-RX220-ST-Pro



Applications

- Multiroom video and audio control
- Professional AV systems, conference rooms
- Rental and Staging
- Digital signage
- Long distance lossless DVI signal transmission

Features

- Extends DVI-D signals with Singlemode Fiber Technology
- 1920 x 1200 or 2048 x 1080 maximal resolutions
- Cross compatibility with any Lightware fiber device
- Zero frame latency No delay
- No compression
- Neutrik OpticalCON or ST fiber connectors
- Breakout LC connector for Neutrik B channel (not available in -ST version)
- Advanced EDID Management through front panel LCD menu or serial port (-TX220-Pro)
- Improved DVI signal detection circuit
- Firmware upgrade through serial port
- Status LEDs: source, monitor and laser loss detection
- Local monitor buffered loop output at transmitter
- Pixel Accurate Reclocking (-RX220-Pro)
- Two identical DVI-D outputs at receiver
- Alarm output for fiber and DVI link loss (-RX220-Pro)
- Built in universal power supply
- Remote power option for receiver (only when using Neutrik 2M-4S75 hybrid fiber cable with 2 fibers + 4 copper wires)
- Improved ESD protection
- Rack, truss or furniture mounting accessories

Compatible fiber cables

- Neutrik OpticalCON version: Neutrik 2M-4S75 hybrid, Neutrik 2M, LC-LC Multimode cable
- ST version: ST-ST Multimode cable

Connectors

Power:	IEC connector
DVI:	29 pole DVI-I connectors
	(only digital pins are connected))
Fiber (Neutrik OpticalCON	Neutrik NO2-4FDW type LC duplex,
version):	LC simplex for B channel breakout
Fiber (ST version):	ST connector
Alarm (only on receiver):	3 pole
RS-232:	9 pole standard D-SUB female

Specifications

1.65 Gbps per color		
640 x 480 to 1920 x 1200		
0 frames		
No		
Yes, Advanced EDID Management		
50 factory preset, 50 user		
programmable EDID in transmitter		
256 Byte Extended EDID v1.3		
EDID management in transmitter		
Power, source connected,		
signal present, laser active		
Power, laser detect, signal present,		
monitor connected		
No		
50/125 Multimode fiber		
4 ch. CWDM: 778; 800; 825;		
850 nm (high speed)		
Class 3		
-6.25 dBm (worst case)		
-14.25 dBm (worst case)		
8 dB (worst case)		
2500 m (using OM4 type fiber)		
600 m		
Internal (100 to 240 V AC, 50/60 Hz)		
3.5 W		
4 W		
1U half rack, 1 mm metal		
221 W x 181 D x 42.2 H mm		
1420 g		
1340 g		
CE		
3 years		

OMA*:Optical Modulation Amplitude

Maximum extension distances

	OM1	OM2	OM3	OM4
	(62.5/125)	(50/125)	(50/125)	(50/125)
1080p@60Hz 24 bpp	Not supported	600 m	1200 m	2500 m

Optional accessories



DVI-OPT-TX110 and DVI-OPT-RX110 (Part No: 9151 0001, 9151 0002)

Connector sized DVI over multimode fiber extender.



Mounting bracket (Part No: 5240 0274)

It makes through-furniture and under-desk mounting easy, and allows truss mounting with standards clamps.



Rack shelf (Part No: 5240 0269)

The 1U high rack shelf provides mounting holes for fastening two half-rack or four quarter-rack sized units.