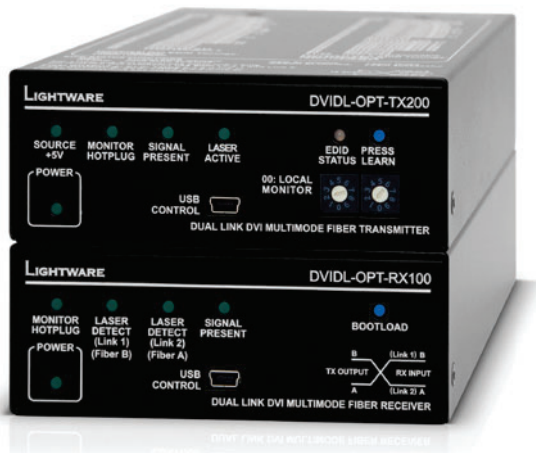


## Dual-Link DVI fiber extender



Part No: 9151 0007 (TX200), 9151 0008 (RX100)



### Highlight features

- Extend Dual-Link DVI signals over fiber
- Built-in Advanced EDID Management
- Local monitor Output on transmitter
- USB control
- TMDS Reclocking

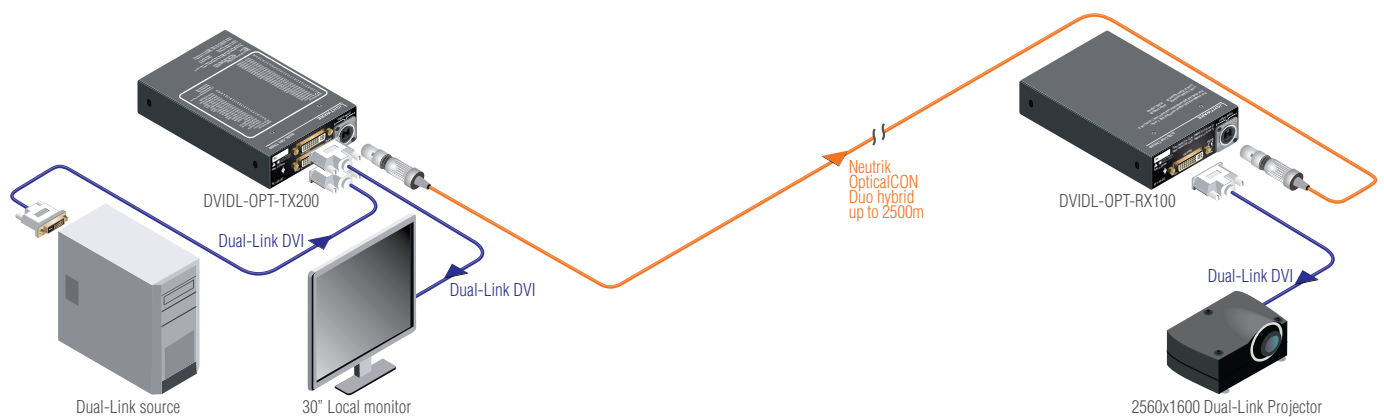
Designed for rental and professional use, the Lightware DVIDL-OPT-TX200 and DVIDL-OPT-RX100 extender pair can transmit Dual-Link DVI signals over two multimode fiber cables for up to 2500 meters distance. Neutrik OpticalCON DUO connectors ensure reliable operation which are also compatible with industry standard LC Duplex fiber cables.

Dual-Link signal transmission supports '120 Hz' 3D signals. In this application the 3D picture is transmitted through a Dual-Link DVI interface.

DVI Single-Link transmission is available as well with only one optical fibre. In Single-Link operation the transmitter and the receiver are fully compatible with Single-Link Lightware optical products.

Galvanic isolation between source and display helps to avoid ground loops and hum effects. No delay occurs in the signal during optical conversion, the video image is transported without any frame latency. This feature is crucial in 3D applications and systems where audio is processed separately.

### Standalone application

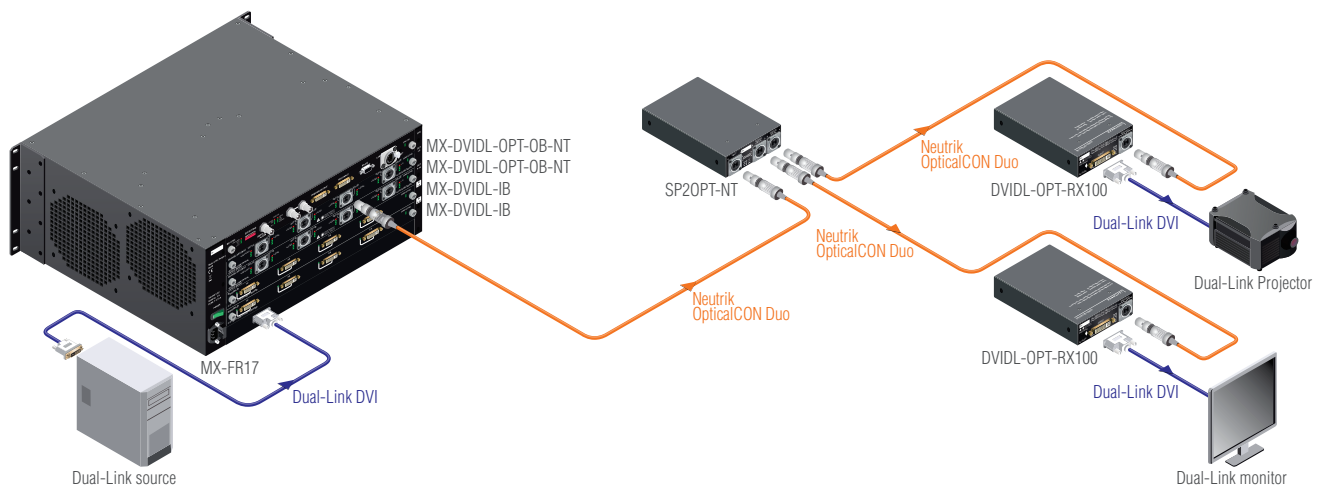


# DVIDL-OPT-TX200 and DVIDL-OPT-RX100

Cross compatibility between Lightware optical products is ensured thanks to our attentive design. The DVIDL-OPT-TX200 and DVIDL-OPT-RX100 can work together easily in a standalone application, however with our hybrid modular matrix concept, it is possible to connect these extender boxes directly to the matrix router using an MX-DVIDL-OPT series input or output board.

Advanced EDID Management with USB control: using this unique feature there is no need to negotiate EDID information between the source and remote display. The DVIDL-OPT-TX200 transmitter stores up to 99 different EDID versions in its non volatile memory and keeps the selected one continuously fixed on its Dual-Link Input available for the source computer. According to the user's setting any special pixel resolution can be created and emulated via Lightware's Advanced EDID Creator software.

## Integrated system operation



## Compatible fiber cables

- Neutrik 2M-4S75 hybrid
- Neutrik 2M
- LC-LC Multimode Duplex cable (two fibers needed)

## Transmitter and receiver rear view



DVIDL-OPT-TX200



DVIDL-OPT-RX100

## Applications

- Rental and staging
- Military and GIS
- Medical
- Scientific visualizations
- Virtual Reality Training
- Simulation
- Conference rooms, collaborative telepresence
- Custom resolution and refresh rate EDID emulation
- '120 Hz' active 3D visualizations

## Features

- Extends Dual-Link DVI-D signals over two fibers
- 4096 x 2400 maximal resolution
- Single-Link operation mode with one fiber
- Zero frame latency - No delay
- No compression
- Neutrik OpticalCON fiber connectors
- Advanced EDID Management in transmitter
- USB port for control and firmware upgrade
- Status LEDs: source, signal, monitor and laser loss detection
- Local monitor buffered loop Output at transmitter
- TMDs Reclocking in receiver
- Improved ESD protection
- Rack mounting accessories

## Compatibility table

- .../fiber\_extension\_cross\_comp.pdf

### Supplied accessory



### PSU-5VU Universal DC adaptor (Part No: 1180 0049)

Wall power adaptor with interchangeable plug for international use.  
Universal input: 100-240 V AC, 50-60 Hz,  
Output: 5 V DC, 2.5 A

### Optional accessory



### 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.

## Specifications

Data rate:	1.65 Gbps per color
Resolution:	4096x1200 or 2048x1080 Stereo
Video delay:	0 frames
HDCP pass through:	No
EDID emulation:	Yes, Advanced EDID Management
EDID memory:	60 factory preset, 39 user programmable EDID in transmitter
EDID support:	256 byte Extended EDID v1.3
Front panel control:	EDID management in transmitter
LED indicators (-TX200):	Power, source connected, signal present, hotplug, laser active
LED indicators (-RX100):	Power, laser detect, signal present, monitor connected
RS-232 pass through:	No
Fiber:	50/125 LC Multimode
Laser wavelengths:	4 ch. CWDM: 778; 800; 825; 850 nm (high speed)
Laser class specification:	Class 3B
Transmitter output OMA*:	-6.25 dBm (worst case)
Receiver OMA* sensitivity:	-14.25 dBm (worst case)
Optical loss budget:	8 dBm (worst case)
Transmission distance:	2500 m (using OM4 type fiber)
Power supply:	External power adaptor (100 to 240 V AC, 50/60 Hz), (5 V DC, 2.5 A)
Power consumption (-TX200):	3.5 W
Power consumption (-RX100):	4 W
Enclosure:	1U quarter rack, 1mm metal
Dimensions:	110 W x 181 D x 42.2 H mm
Net weight (-TX200):	726 g
Net weight (-RX100):	701 g
Compliance:	CE
Warranty:	3 years

OMA\*:Optical Modulation Amplitude

## Connectors

Power:	Locking DC connector (2.5 / 5.5 mm barrel receptacle)
DVI:	29 pole DVI-I connectors (only digital pins are connected)
Fiber:	Neutrik NO2-4FDW type LC duplex
Control:	Mini USB (B type)

## Maximum extension distances

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