

## Connector sized HDCP capable optical extender

### Highlight features

- DVI connector sized extenders
- 9/125 Single Mode Fiber 10 km extension
- Single Fiber Technology, zero frame delay
- Support 24, 30 and 36 bit video
- Support embedded audio
- HDCP compatibility

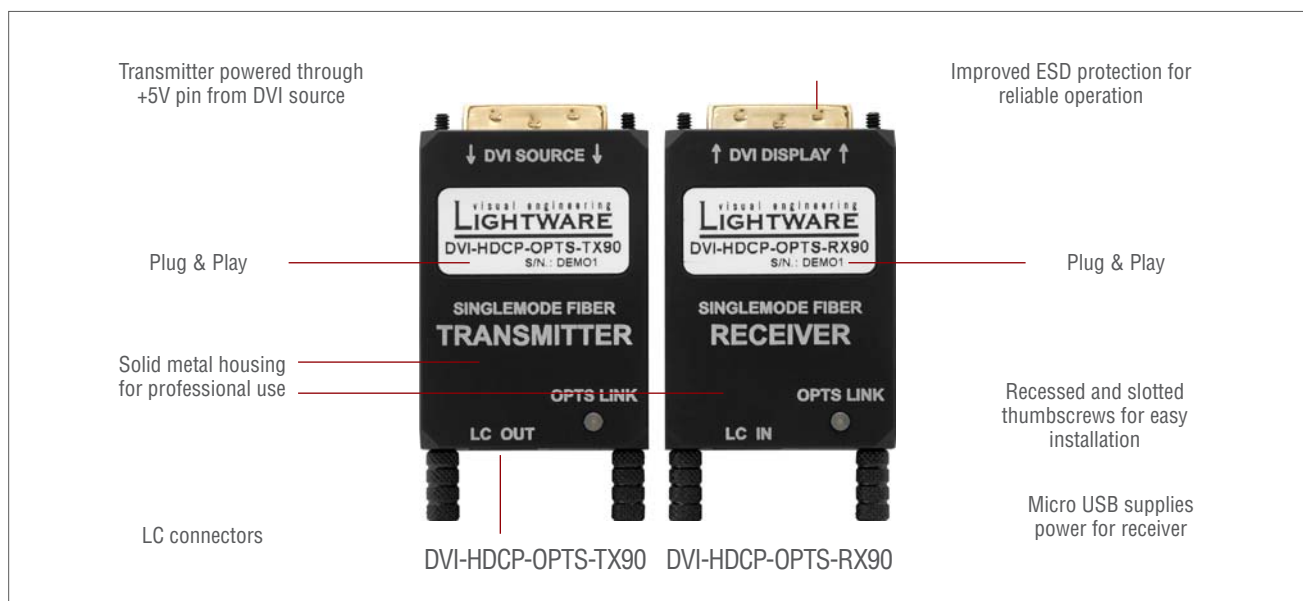


DVI-HDCP-OPTS-TX90 and DVI-HDCP-OPTS-RX90 pair is a DVI fiber transmitter / receiver set for up to 10 km distance transmission. Using Single Fiber Technology the DVI signal with HDCP encryption is transmitted over only one single mode 9/125 fiber core. Sources and display devices are galvanically isolated against ground loops and hum effects, and no delay occurs in the signal, the video image is transported without any frame latency.

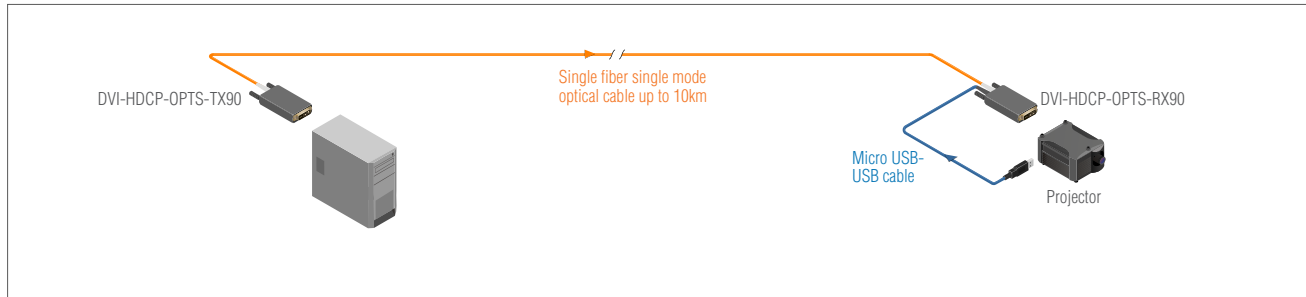
Powered from DVI source the DVI-HDCP-OPTS-TX90 transmitter does not need external power adaptor simplifying system installation. Support EDID pass-through for video source to read video display device's capability.

Recessed thumbscrews allow easy mounting directly to DVI receptacle by hand, or by using a flat-bladed screwdriver. This is most useful in space constraint applications, where the connectors are too close, and can be reached only from the rear side. Massive solid metal casing provides excellent cooling and maximum reliability.

### Transmitter and receiver benefits



## Stand alone diagram



## Applications

- Professional AV systems, conference rooms
- Fixed installations, Rental and Staging
- Digital signage
- Long distance lossless DVI or HDMI signal transmission
- Ground loop isolation

## Features

- Extends DVI-D or HDMI signals with Single Fiber Technology
- 1920 x 1200 or 2048 x 1080 maximal resolutions
- Embedded audio  
Supported: uncompressed: PCM, Multichannel PCM  
compressed: DTS, Dolby Digital  
Not supported: Dolby true HD, DTS-HD, DTS-HD Master Audio
- Plug & Play
- Zero frame latency – no delay
- No compression
- EDID transparent
- TX and RX both have Link status LED
- Micro USB cable supplies power for receiver
- Power supplied through DVI connector for transmitter
- Max fiber cable length of 10.000m (using OM3e type fiber)
- DVI connector sized form factor
- Solid metal housing for professional use
- Recessed (slotted) thumbscrews
- Improved ESD protection
- LC connectors

## Specifications

Data rate:	6.75 Gbps (2.25 Gbps per color)
Resolution:	up to 1920 x 1200 or 2048 x 1080 pixels
Video Delay:	0 frames
HDCP pass through:	Yes
EDID emulation:	transparent EDID
LED indicators:	Link status LEDs
RS-232 pass through:	no
Fiber:	9/125 LC Singlemode
Laser wavelengths:	1490, 1550 and 1310 nm
Laser class specifications:	Class 1M
Transmitter output OMA*:	-8 dBm (worst case)
Receiver OMA* sensitivity:	-17 dBm (worst case)
Optical loss budget:	10 dB (worst case)
Transmission distance (using Om3e type fiber):	10 km
Power:	from source or sink device through micro USB cable
Power consumption (TX):	1.4 W
Power consumption (RX):	0.8 W
Enclosure:	solid metal
Dimensions:	40 W x 74 D x 15 H mm
Weight:	80 g
Compliance:	CE
Warranty:	3 years

OMA\*: Optical Modulation Amplitude

## Connectors

TX input , RX output:	24 pole DVI-D plug
Fiber:	LC simplex
DC Power:	micro USB

