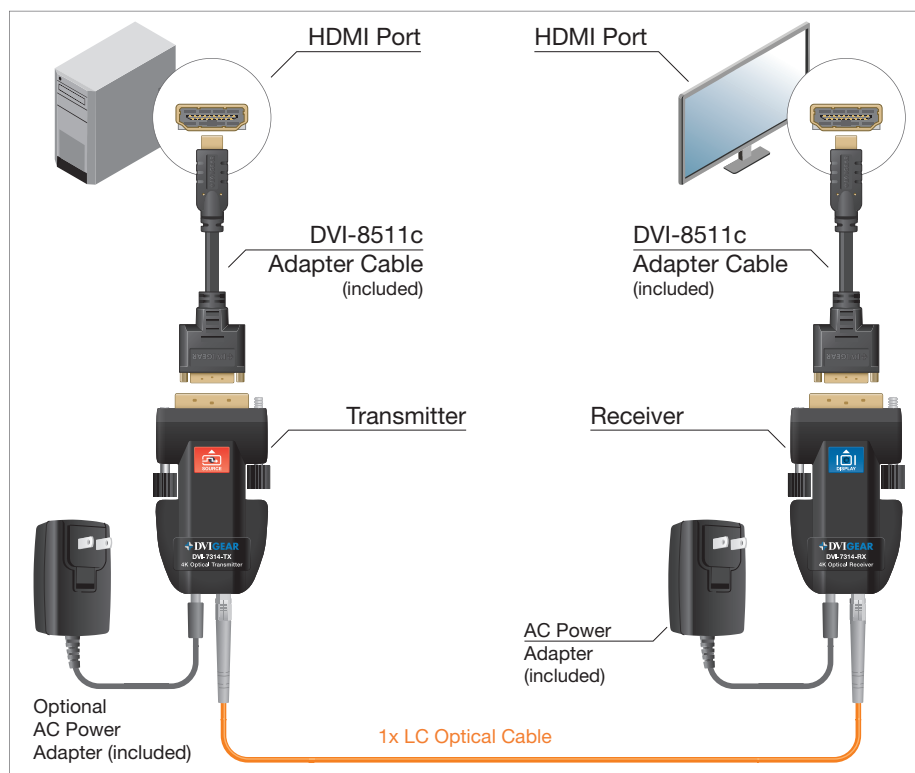


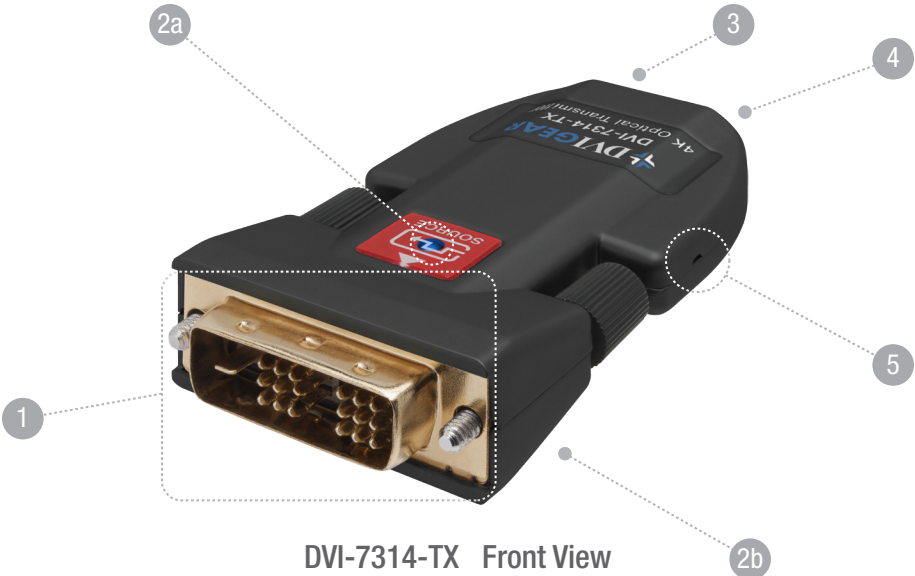
Introduction

The DVI-7313 and DVI-7314 are high performance 4K Optical Extenders that transmit high resolution DVI / HDMI signals over extreme distances using a single fiber optic cable. These extenders support HDMI v1.4 (non-HDCP) signals with resolutions up to 4K (4096x2160 / 30p) over cable distances up to 1640 ft. (DVI-7313) and up to 1.2 miles (DVI-7314). Each extender set consists of an optical transmitter module that converts the DVI / HDMI signals into light pulses for transmission over a single strand of optical fiber cable. An optical receiver module converts the light pulses back to a DVI / HDMI signal for display on a monitor or projector. The transmitter unit includes an internal EDID memory that can acquire and store the EDID from any display. The DVI-7313 supports Multi-Mode optical fiber, while the DVI-7314 supports both Multi-Mode and Single-Mode fiber optic cable. These features make the DVI-7313 and DVI-7314 the ideal future-proof choices for systems designers and integrators who need to transmit high resolution DVI / HDMI signals over extreme distances.

Typical Application



DVI-7313 / DVI-7314 4K Fiber Optic Extenders, 1x LC



1. DVI Connector	DVI-7313-TX / DVI-7314-TX connects to source; DVI-7313-RX / DVI-7314-RX connects to display
2a. Top LED	Tx: Flashes Blue momentarily when EDID has been read successfully; Rx: Illuminates Blue when connected to a working display
2b. Bottom (Power) LED	Illuminates Red when DC power is applied
3. Fiber Optic Connector	1x LC optical connector for fiber optic cable
4. DC IN Connector	Connect the External AC Power Adapter to this receptacle
5. Learn EDID Button (TX)	Use a stylus to actuate this switch following the procedure on page 4

Note: The DVI-7313 / DVI-7314 Transmitter units and Receiver units use the same type of enclosure and have the same connections.

Installation Instructions

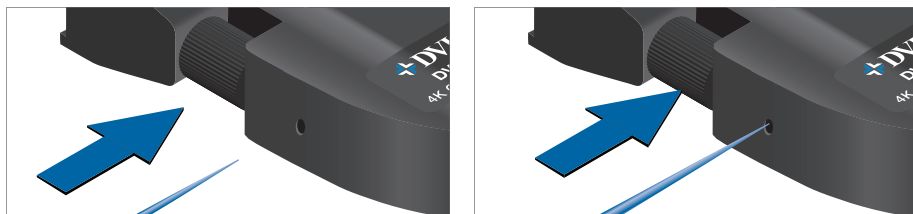
This product consists of a DVI-7313 / DVI-7314 Transmitter Unit and a DVI-7313 / DVI-7314 Receiver Unit. These units are interconnected by means of a single-channel LC optical cable, utilizing either 50/125µ Multi-Mode fiber or 9/125µ Single-Mode fiber (DVI-7314). The DVI-7314 is also capable of using Multi-Mode fiber. For maximum cable lengths, please see the chart on page 4.

- 1.) Learn the EDID from the destination device (see instructions on page 4).
- 2.) Connect the Transmitter Unit to the output port of the signal source (e.g. PC). For a DVI source, simply connect the Tx to the DVI output. For an HDMI source, use the included DVI female to HDMI male adapter cable.
- 3.) Connect the Receiver Unit to the input port of a destination device (e.g. digital display). For a DVI destination, simply connect the Rx to the DVI input. For an HDMI destination, use the included DVI female to HDMI male adapter cable.
- 4.) Each unit has one (1) Optical port. Connect an LC-terminated fiber optic cable between the Transmitter Unit and the Receiver Unit.
- 5.) Connect the External AC Power Adapter to the power input jack on the Receiver Unit.
- 6.) Apply power to the display device, then apply power to the source device. A picture should appear on the display within a few seconds.

Power Sources

The Receiver Unit must be powered from the supplied External AC Power Adapter. It cannot be powered from the connected display device. However, the Transmitter Unit can draw power from the source device in most applications. In the event that the source cannot provide adequate power for the transmitter, use the optional External AC Power Supply that has been provided.

Learn EDID Button



Insert a stylus to press the Learn EDID Button

Instructions for Learning the EDID from a Display

- 1.) Apply power to the display.
- 2.) Connect the DVI-7313 / DVI-7314 Transmitter unit to the display's DVI or HDMI input port.
- 3.) Connect the External AC Power Adapter to the Transmitter unit.
- 4.) Press the Learn EDID button (page 2 - #5) by manually inserting a stylus into the side of the Transmitter unit. If the EDID is properly read, the BLUE Indicator LED (page 2 - #2a) should illuminate once.
- 5.) Remove the External AC Power Adapter from the Transmitter unit.
- 6.) Disconnect the Transmitter unit from the display and connect it to the DVI or HDMI signal source device.
- 7.) Follow the Installation Instructions (3-6) listed on page 3.

Maximum Cable Lengths

Model	Cable Length	Recommended Cable Type
DVI-7313	> 1,640 ft. (> 500 m)	50/125μ OM4 Multi-Mode Fiber
DVI-7313	> 1,000 ft. (> 300 m)	50/125μ OM3 Multi-Mode Fiber
DVI-7314	> 1.2 mi. (> 2000 m)	9/125μ Single-Mode Fiber
DVI-7314	> 1,640 ft. (> 500 m)	50/125μ OM4 Multi-Mode Fiber
DVI-7314	> 1,000 ft. (> 300 m)	50/125μ OM3 Multi-Mode Fiber



WARNING: Invisible Laser Radiation

Do not view directly with optical instruments or look into beam.

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