DVIGEAR

Quick Start Guide

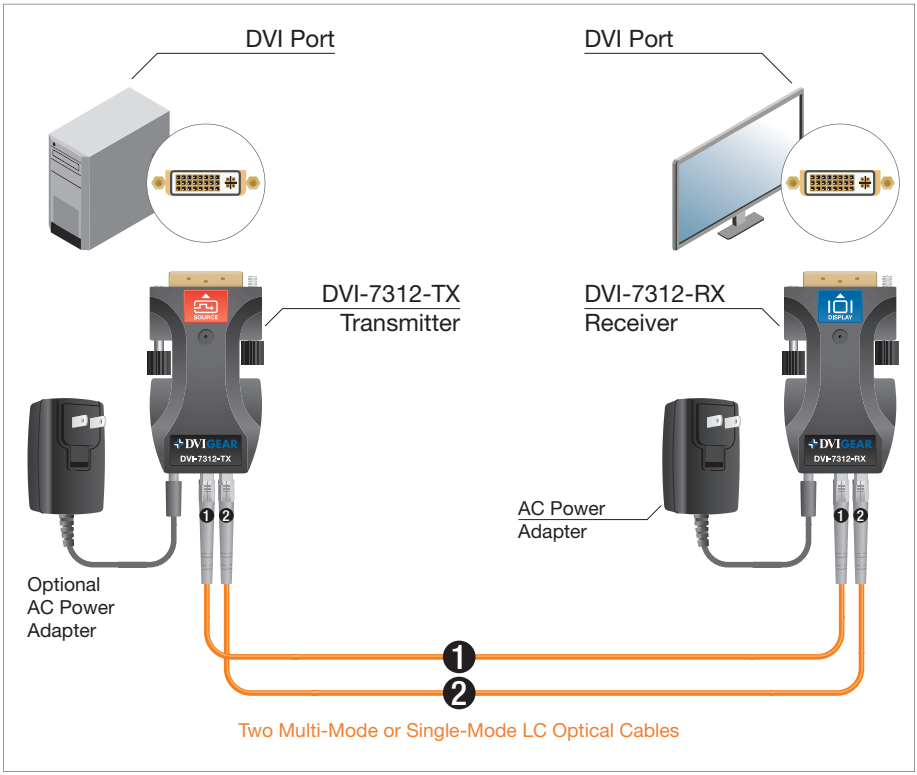
DVI-7312

Single-Link DVI Fiber Optic Extender, 2x LC

Introduction

DVI-7312 is a Fiber Optic Extender designed to transmit single-link DVI signals over fiber optic cables at distances up to 2000 meters (~1.2 miles). This extender provides exceptional signal fidelity and supports a wide range of input resolutions. The unit consists of an optical transmitter module that converts the DVI input signal into high-speed light pulses for transmission over two (2) detachable multi-mode or single-mode glass fibers and an optical receiver module that converts the light pulses back to a DVI signal for display on a monitor or projector. A programmable memory chip in the transmitter unit captures and stores the EDID from the connected display, thereby eliminating the need for copper cables. These features make the DVI-7312 the ideal solution for any application that demands flawless image quality from DVI signals that must be extended over very long cable distances.

Typical Application



DVI-7312 Single-Link DVI Fiber Optic Extender, 2x LC

DVI-7312-TX Front View

DVI-7312-TX Rear View

1. DVI Connector	DVI-7312-TX connects to source, DVI-7312-RX connects to display
2a. EDID LED	(Top side) Illuminates Blue when EDID has been read successfully
2b. POWER LED	(Bottom side) Illuminates Red when DC power is applied
3. Fiber Optic Connectors	2x LC optical connectors for fiber optic cables
4. DC IN Connector	Connect the External AC Power Adapter to this receptacle
5. Learn EDID Button	Use a stylus to actuate this switch following the procedure on page 4

Note: *The **DVI-7312-TX** Transmitter Unit and **DVI-7312-RX** Receiver Unit use the same type of enclosure and have the same connections.*

Installation Instructions

This product consists of a DVI-7312-TX Transmitter Unit and a DVI-7312-RX Receiver Unit. These units are interconnected by means of a two-channel LC optical cable utilizing either 50/125µ multi-mode fiber, or 9/125µ single-mode fiber (see application drawing on page 1).

1.) Learn the EDID from the destination device (see instructions on page 4).

2.) Connect the Transmitter Unit to the DVI output port of the signal source (e.g. PC).

3.) Connect the Receiver Unit to the DVI port of a destination device (e.g. digital display).

4.) Each unit has two (2) Optical ports which are marked on the bottom of the unit with the numbers 1 and 2. Connect each strand of the LC terminated fiber optic cable to the corresponding number on both the Transmitter and Receiver Units.

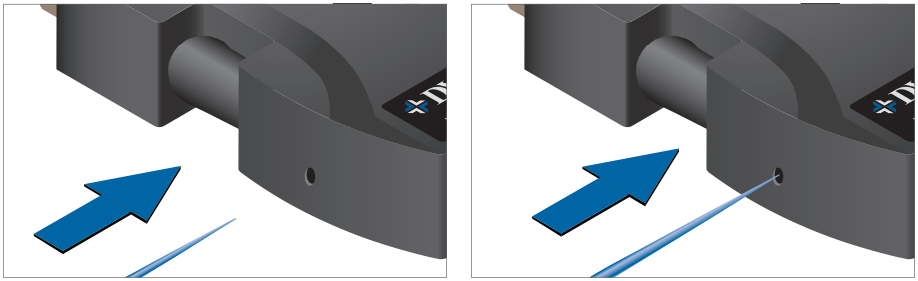
5.) Connect the External AC Power Adapter to the power input jack on the Receiver Unit.

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 draw power from the supplied External AC Power Adapter. It does not draw power from the monitor to which it is connected. However, the Transmitter Unit can draw power from the source device for operation. In the event that the source cannot provide adequate power for the transmitter, an optional External AC Power Supply is available (part number DVI-7210-PS).

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-7312 Transmitter unit to the display's DVI 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 signal source.

7.) Follow the Installation Instructions (3-6) listed on page 3.

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