

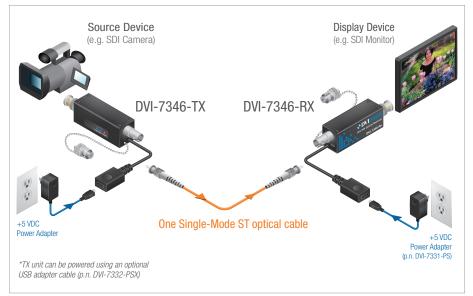
Quick Start Guide 12G-SDI Fiber Optic Extender, 1x ST

Introduction

High Performance — The DVI-7346 is an ultra-compact, high performance fiber optic extender that supports SDI, HD-SDI, 3G-SDI and 12G-SDI signal extension over a single strand of Single-Mode optical fiber at distances up to 6.2 miles (~10 km). The extender set consists of an optical transmitter module that converts the SDI signals into light pulses for transmission over an optical fiber cable. An optical receiver module converts the light pulses back to an SDI signal for downstream processing or display on a monitor.

Superior Design — The transmitter includes an SDI signal EQ, a Laser driver and a laser diode module that uses a single optical wavelength of 1310nm. The receiver includes an SDI copper cable driver, a photo diode, a transimpedance amplifier (TIA), as well as a limiting amplifier. Both Tx and Rx use low-profile, metal cases equipped with rugged locking 75-ohm BNC SDI connectors. The locking ST fiber connectors are supplied with twist-locking metal covers to prevent dust buildup inside the fiber optic connectors. These features make the DVI-7346 the perfect solution for extension of SDI, HD-SDI, 3G-SDI, and 12G-SDI signals over extreme distances in even the most demanding broadcast, studio, and live environments.





DVI-7346 12G-SDI Fiber Optic Extender, 1x ST

DVI-7346





1. SDI Connector	DVI-7346-TX connects to a source device DVI-7346-RX connects to a display device			
2. DC IN Connector	Connect the External AC Power Adapter to this receptacle on both Tx and Rx units			
3. Fiber Optic Connector	1x ST optical connector for single-mode fiber optic cable			
4. Metal Dust Cover	Use this detachable metal cover to prevent dust buildup inside the ST fiber optic connector			
5. Status Indicator LEDs:	Color	Tx Unit	Rx Unit	
a. Link LED	Blue	On – Laser Working	On – Receiving Optical Input Signal	
b. Signal LED	Blue	On – Receiving Signal from the SDI Source	On – SDI Signal Output is normal	
c. Power LED	Red	5 VDC Power is present	5 VDC Power is present	

Note: The **DVI-7346** Transmitter units and Receiver units use the same type of enclosure and have the same connections and LEDs.

Installation Instructions

This product consists of a transmitter unit and receiver unit. These units are interconnected by means of a single-channel ST optical cable, utilizing $9/125\mu$ Single-Mode fiber. For a list of supported SDI standards and resolutions, please see page 4.

Note: No controls are present on either transmitter or receiver. Before attempting to use the extender set, please verify that the source functions properly with the display device by connecting the source and display devices together using a short coaxial cable.

- 1. First, remove the locking metal dust covers from the ST fiber optic connectors on the Tx and Rx units. To do this, push in, turn 45° counterclockwise, then pull the cover off.
- 2. Connect the BNC SDI connector on the transmitter unit to the SDI output port of the signal source.
- **3.** Each unit has one (1) optical port. Connect an ST-terminated fiber optic cable between the Transmitter Unit and the Receiver Unit.
- 4. Connect the BNC SDI connector on the receiver unit to the SDI input port of the destination device.
- 5. Connect the External AC Power Adapters to the power input jack on both Tx and Rx units.
- 6. Apply power to the destination device, then apply power to the source device. The signal should be available for the display or other destination device within a few seconds.

Note: Always install the dust covers on the ST fiber connectors when not in use.



Supported Formats

Name	Standard	Bitrates (Mbit/s)	Example Video Formats
SD-SDI	SMPTE 259M	270, 360, 143, 177	480i, 576i
ED-SDI	SMPTE 344M	540	480p, 576p
HD-SDI	SMPTE 292M	1485 and 1485/1.001	720p, 1080i
3G-SDI	SMPTE 424M	2970 and 2970/1.001	1080p60
6G-SDI	SMPTE ST 2081	6000	1080p120, 2160p30
12G-SDI	SMPTE ST 2082	12000	2160p60



WARNING: Invisible Laser Radiation

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

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