

LBO-SDI-AD-T

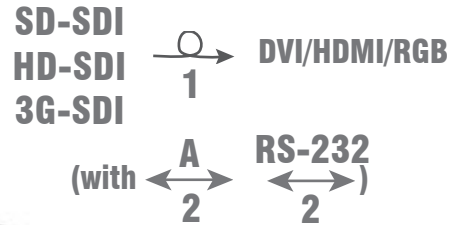
Light Bridge™ Fiber Optic
SDI Video Converting Transmitter System
(with Audio/Data)

“SD-SDI, HD-SDI or 3G-SDI Input”

“Displayed on DVI/HDMI/VGA Panel Monitor

Over 1 Multimode Fiber”

*“Standalone Unit or
Decora Wall-Plate Packaging”*



*“High performance and affordable solutions for
your digital video transmission.”*

Applications

Remote Digital Video Extension

Digital Signage

Video Wall Presentation

Features

Up to 400m

720p/1080i/1080p HDTV Video
Resolution

Over 1 Multimode Fiber

Compatible with our LBO Series
Products

Simultaneous Video Transmission
Stereo Audio and RS-232

The LBO-SDI-AD-T is a high performance, low cost, miniature, Light Bridge™ Fiber Optic Video Scaler Transmitter System (with Audio/Data). It carries one (1) unidirectional SD-SDI, HD-SDI or 3G-SDI video through one multimode fiber for being displayed with DVI/HDMI/VGA video panel. This unique fiber optic transmission system lets your SD-SDI, HD-SDI or 3G-SDI video source displayed in DVI/HDMI/VGA digital flat panel display extending up to 400m. In addition to unidirectional video transmission, the LBO-SDI-AD-T carries one bi-directional stereo audio and two (2) RS-232 data over the same fiber. The LBO-SDI-AD-T supports video resolution up to 720p/1080i/1080p HDTV video resolution. In addition, this product model has an option for video only configuration which allows either fiber or electrical transmission.

No user adjustment is required for the LBO-SDI-AD-T due to the use of advanced digital fiber optic transmission system technology. This allows for a quick and easy setup, offering trouble-free operation for many years to come. In addition, the LBO-HDI/DH-AD-T transmitter is compatible with our LBO Series receiver. This makes both fiber transmission and HDMI/DVI/VGA/YPbPr/SV/CV/SDI conversion in one single system setup. The LBO-SDI-AD-T comes with either a standalone miniature enclosure or a Decora wall-plate packaging. The units are easily monitored by power and link LED indicators.

Option (LBO-SDI/DH) is also available for converting SDI video to DVI video, without fiber optical transmission. This option is perfect for short distance copper transmission applications.



LBO-SDI-AD-T

Light Bridge™ Fiber Optic SDI Video Converting Transmitter System (with Audio/Data)

Multimedia Transmission Systems



Video

Input Format	SD-SDI, HD-SDI or 3G-SDI Video
Output Format	DVI/HDMI/VGA Compatible
Resolution*	Up to 1080p @ 60Hz
Connector	BNC

Audio**

Channel Capacity	2
Operating Mode	Unbalanced (Stereo Audio), Bi-directional
Input/Output Impedance	10k/50 Ohms (Stereo Audio)
Max. Input/Output Level	5 dBu/4Vpp (Stereo Audio)
Magnitude Freq. Response	20Hz to 20kHz @ -3dB
THD+N	>70 @ 1k Hz (Stereo Audio)
Connector	3.5mm Stereo Jack

Serial Data

Channel Capacity	2
Signal Format	RS-232
Data Rate	Up to 57.6kbaud
Connector	Terminal Block

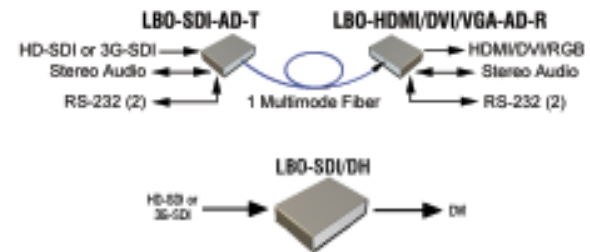
Optical

Fiber Type	Multimode
Number of Fibers	1
Connector	SC

Physical

Dimension	
Standalone	4.17"(W) x 4.1"(D) x 1.1"(H)
Wallplate	1.75"(W) x 2.70"(D) x 2.81"(H)
Power Level (max.)	+12VDC @ 1.5A
Operating Temperature	0 to +50°C
Humidity	0 to 95% RH, non-condensing

Applications



*Type	Resolution	Vertical Refresh Rate (Hz)
SMPTE 259M	480i (720x480)	59.94
SMPTE 259M	576i (720x576)	50
SMPTE 259M	720p (1280x720)	25, 29.97, 30, 50, 59.94, 60
SMPTE 259M	1080i (1920x1080)	50, 59.94, 60
SMPTE 424M	1080p (1920x1080)	25, 29.97, 30, 50, 59.94, 60

** The stereo audio channel is not a SD-SDI, HD/SDI or 3G-SDI embedded/de-embedded audio, i.e., it is an independent stereo audio channel outside the SD-SDI, HD-SDI or 3G-SDI embedded audio.

Ordering Information

LBO-SDI-AD-T-M-SC	Fiber Transmitter, SDI, Multimode, 1-Fiber	
LBO-DVI-AD-R-M-SC	Fiber Receiver, DVI, Multimode, 1-Fiber	
LBO-HDMI-AD-R-M-SC	Fiber Receiver, HDMI, Multimode, 1-Fiber	
LBO-VGA-AD-R-M-SC	Fiber Receiver, RGB, Multimode, 1-Fiber	

Add -WP for Wallplate configuration
 Add -CH for LBO-CH Chassis mounting kit
 Add -UPS for International Universal Power Supply

LBO-SDI/DH	SDI to DVI Converter	SD-SDI or HD-SDI or 3G-SDI → DVI
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Add -CH for LBO-CH Chassis mounting kit
 Add -UPS for International Universal Power Supply



DOING MORE WITH ONE FIBER

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.