

# Specifications

## FOX 500 DVI Tx

**NOTE:** The FOX 500 DVI Tx is a transmitter with one or two fiber optic cables linking it to a receiver. It is available in singlemode or multimode version.

**NOTE:** The analog audio signals are digitized in the transmitter, sent through the fiber cable, and converted back to analog audio in the receiver.

**NOTE:** This transmitter is a class 1 laser product. It meets the safety regulations of IEC-60825.

### Optical fiber interconnection between transmitter and receiver

Number/type..... 1 or 2 fiber optic

**NOTE:** Only one fiber is required to transmit video, audio, and unidirectional data. A second fiber is required to transmit return data for bidirectional control and communication.

Connectors..... 2 LC connectors

Operating distance

Singlemode ..... 30 km (18.75 miles) with singlemode (SM) cables with an SM unit

Multimode ..... 300 m (985') with 62.5  $\mu$ m OM1 multimode (MM) cables with an MM unit

1 km (3280') with 50  $\mu$ m OM2 multimode (MM) cables with an MM unit

2 km (6561') with 50  $\mu$ m OM3/OM4 laser optimized multimode cable with an MM unit

**NOTE:** Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength ..... 850 nm for MM units, 1310 nm for SM units

Data rate..... 4.25 Gbps

Transmission power ..... -5 dBm, typical

Maximum receiver sensitivity

Singlemode ..... -18 dBm, typical

Multimode ..... -12 dBm, typical

Optical loss budget

Singlemode ..... 13 dB, maximum

Multimode ..... 7 dB, maximum

## Video

Resolution range.....	Single link DVI and HDMI digital video signals are supported, including 640x480 @ 60 Hz through 1600x1200 @ 60 Hz, and also HDTV signals at 480p, 576p, 720p, 1080i, and 1080p. Higher resolutions up to 1920x1200 @ 60 Hz, undersampled
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**NOTE:** \*Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output. The FOX 500 DVI Series can be used to distribute HDMI signals if you use a DVI-to-HDMI adapter. However, when HDMI signals are used, the FOX units do not transmit audio and CEC signals. The FOX 500 DVI Series does not support transmission of DVI signals with High-bandwidth Digital Content Protection (HDCP).

Formats .....	RGB and YCbCr digital video
Standards .....	DVI 1.0, HDMI

## Video input and loop-through

Number/signal type.....	1 DVI-D (or HDMI*) input 1 DVI-D (or HDMI*) loop-through
Connectors .....	1 female DVI-I for input 1 female DVI-I for loop-through
Nominal level.....	0.8 Vp-p
Impedance.....	100 ohms

## Audio

Gain	
Range .....	Adjustable, -18 dB to +10 dB
Default	
Captive screw connector ...	Unbalanced output: -6 dB; balanced output: 0 dB
Mini stereo jack.....	Unbalanced output: 0 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 0.5$ dB
THD + Noise .....	0.10% @ 1 kHz at nominal level
S/N .....	>80 dB at maximum output (unweighted)
CMRR.....	65 dB @ 20 Hz to 20 kHz
Audio bits per sample .....	18 bits per channel, 2 channels (L, R)
Sampling rate.....	48 kHz

## Audio input

Number/signal type.....	2 inputs (mixed): 1 balanced stereo; 1 unbalanced stereo or 2 unbalanced mono
Connectors .....	(1) 3.5 mm captive screw connector, 5 pole (1) 3.5 mm mini stereo jack
Impedance.....	18k ohms unbalanced, 20k ohms balanced, DC coupled
Nominal level.....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level .....	+17 dBV, (unbalanced) at 1% THD+N

**NOTE:** 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV  $\approx$  2 dBu

## Control/remote

Serial control ports	
Control .....	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used) (rear panel) 1 RS-232, 2.5 mm mini stereo jack (front panel)
Pass-through.....	1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used) (rear panel)
Baud rate and protocol	
Control .....	9600 baud, 8 data bits, 1 stop bit, no parity
Pass-through.....	9600 to 115,200 baud
Serial control pin configurations.....	Captive screw connectors: 1 = Tx, 2 = Rx, 3 = GND Mini stereo jack: tip = Tx, ring = Rx, sleeve = GND
Program control .....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™)

## General

Power supply .....	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption .....	10.0 watts
Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling .....	Convection, vented left to right, vents on side panels
Mounting	
Rack mount .....	Yes, with optional rack shelf kit
Furniture mounting holes .....	Yes, with optional under desk mounting kit
Enclosure type .....	Metal
Enclosure dimensions .....	1.7" H x 8.7" W x 9.5" D (1U high, half rack wide) (4.3 cm H x 22.1 cm W x 24.1 cm D) (Depth excludes connectors and knobs.)
Product weight .....	2.3 lbs (1.0 kg) per unit
Shipping weight .....	4 lbs (2 kg) per unit
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety .....	CE, c-UL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, VCCI
Warranty .....	3 years parts and labor

**NOTE:** All nominal levels are at  $\pm 10\%$ .

**NOTE:** Specifications are subject to change without notice.

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