

# Specifications — FOX 500 DVI Series

**NOTE** The FOX 500 DVI consists of a transmitter (FOX 500 DVI Tx) and a receiver (FOX 500 DVI Rx) with one or two fiber optic cables linking the two units. They are available in singlemode or multimode versions.

**NOTE** The analog audio signal(s) is (are) digitized in the transmitter, sent through the fiber cable, and converted back to analog audio in the receiver.

**NOTE** These transceivers are class 1 laser products. They meet the safety regulations of IEC-60825, FDA 21, CFR 1040.10, and FDA 21 CFR 1040.11.

## 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/communication.

Connectors ..... 2 LC connectors

Operating distance

Singlemode..... 30 km (18.75 miles) with singlemode (SM) cables with a FOX 500 DVI SM

Multimode..... 300 m (985') with 62.5  $\mu$ m multimode (MM) cables with a FOX 500 DVI MM

1 km (3280') with 50  $\mu$ m multimode (MM) cables with a FOX 500 DVI MM

2 km (6561') with 50  $\mu$ m 2000 MHz bandwidth laser optimized multimode cable with a FOX 500 DVI MM

**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 FOX 500 DVI MM, 1310 nm for FOX 500 DVI SM

Data rate ..... 4.25 Gbps

Transmission power

Singlemode..... -5 dBm, typical

Multimode..... -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, 720p, 1080i, and 1080p.

Higher resolutions up to 1920x1200 @ 60 Hz, undersampled

**NOTE** \*Appropriate DVI-D to HDMI cables or adapters are required for HDMI signal input/output.

**NOTE** The FOX 500 DVI Series can be used to distribute HDMI signals if you use a DVI-to-HDMI adapter. However, when using HDMI signals, the FOX units do not transmit audio and CEC signals.

Formats ..... RGB and YCbCr digital video

Standards ..... DVI 1.0, HDMI 1.2

## Video input and loop-through — transmitter (FOX 500 DVI Tx)

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 V<sub>p-p</sub>

Impedance ..... 100 ohms

## Header, cont'd

---

### Video output — receiver (FOX 500 DVI Rx)

Number/signal type.....	1 DVI-D (or HDMI*)
Connectors .....	1 female DVI-I
Nominal level .....	0.8 Vp-p
Impedance.....	75 ohms
Video delay .....	1-2 frames

### 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 — transmitter (FOX 500 DVI Tx)

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

### Audio output — receiver (FOX 500 DVI Rx)

Number/signal type.....	2 buffered outputs: 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.....	50 ohms unbalanced, 100 ohms balanced
Nominal level .....	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
Maximum level (Hi-Z) .....	>+19 dBu, unbalanced at 1% THD+N
Maximum level (600 ohm).....	>+15 dBm, unbalanced at 1% THD+N
Audio delay .....	1.5 frames

### Control/remote

Serial control ports on each unit (transmitter and receiver)	
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); in parallel with 1 RS-232, 2.5 mm mini stereo jack (front 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's control/configuration program for Windows®  
 Extron's Simple Instruction Set (SIS™)

**General**

Power ..... 100 VAC to 240 VAC, 50-60 Hz, 11 watts, internal  
 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, CUL, FDA Class 1, UL  
     EMI/EMC ..... CE, C-tick, FCC Class A, ICES, VCCI  
 MTBF..... 30,000 hours  
 Warranty ..... 3 years parts and labor

**NOTE** All nominal levels are at ±10%.  
**NOTE** Specifications are subject to change without notice.

7.6-031709-D6

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>