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

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

Transmission power

Singlemode.....-5 dBm, typical Multimode.....-5 dBm, typical

Maximum receiver sensitivity

Singlemode......-18 dBm, typical Multimode.....-12 dBm, typical

Optical loss budget

Video

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.

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

1 female DVI-I for loop-through

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	A directable 10 JD to 110 JD
Default	Adjustable, -18 dB to +10 dB
Captive screw connec	
	Unbalanced output: -6 dB; balanced output: 0 dB
	Unbalanced output: 0 dB
Frequency response	
THD + Noise	
	>80 dB at maximum output (unweighted)
CMRR	
	18 bits per channel, 2 channels (L, R)
Sampling rate	48 kHz
Audio input — transmitt	
	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
	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
	+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
	+4 dBu (1.23 Vrms), -10 dBV (316 mVrms)
	>+19 dBu, unbalanced at 1% THD+N
	>+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)
Pass-through	1 RS-232, 2.5 mm mini stereo jack (front panel) 1 RS-232, 3.5 mm captive screw connector, 5 pole (3 pins are used) (rear panel); in parallel with
David nata on Jones 1	1 RS-232, 2.5 mm mini stereo jack (front panel)
Baud rate and protocol	0/00 hand 0 data hita 1 atau 1/1 a a a a a'
	9600 baud, 8 data bits, 1 stop bit, no parity
Pass-through	9000 to 113,200 daud

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

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

(4.3 cm H x 22.1 cm W x 24.1 cm D)

(Depth excludes connectors and knobs.)

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.*

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