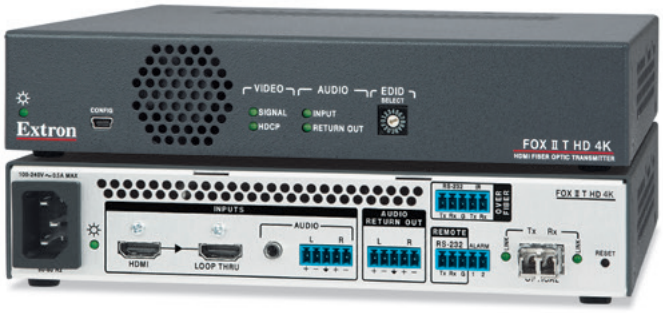
FOX II T HD 4K

FIBER OPTIC TRANSMITTER FOR HDMI, MULTI-CHANNEL AUDIO, RS-232, AND IR

4K UHD

- Transmits HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling
- Supports lossless 4K video up to 4096x2160 at 30 Hz with a 4:4:4 color space over one fiber
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- Buffered HDMI input loop through
- Compatible with the Extron FOX II R DP 4K receiver
- Easy setup and commissioning with Extron's PCS - Product Configuration Software
- 850 nm multimode and 1310 nm singlemode models available



The Extron FOX II T HD 4K is a transmitter for long haul extension of HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling. It provides a variety of new integrator-friendly capabilities, including support for 4K resolutions. Use of the FOX II T HD 4K simplifies the integration of 4K HDMI sources in a fiber optic AV system.

DESCRIPTION

The Extron **FOX II T HD 4K** Fiber Optic Transmitter provides long haul extension of HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling. Engineered with uncompromising quality and proven performance, it uses Extron all-digital technology to deliver lossless HDMI video signals at resolutions up to 4096x2160. This HDCP-compliant transmitter brings new features to the FOX II Series, including support for 4K video along with input loop-through for a local monitor. The FOX II T HD 4K also includes many integrator-friendly features such as Key Minder®, EDID Minder®, audio embedding, audio gain and attenuation, an internal test pattern, as well as real-time system monitoring.

The FOX II T HD 4K supports resolutions up to 4K to ensure that content is delivered with the highest quality possible over a fiber optic cable. A single transmitter is capable of sending 4K video images up to 4096x2160 at 30 Hz with a 4:4:4 color space over one fiber. It also features vertical sync lock, enabling video images up to 4096x2160 at 60 Hz with a 4:4:4 color space to be transmitted over two fibers using two transmitters and receivers.

KEY FEATURES

- **Transmits HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling**
- **Supports lossless 4K video up to 4096x2160 at 30 Hz with a 4:4:4 color space over one fiber**
- **Vertical sync lock enables lossless video transmission up to 4K at 60 Hz with a 4:4:4 color space using two transmitters**
- **HDCP compliant**
- **User-selectable HDCP authorization**
- **Key Minder continuously verifies HDCP compliance for quick, reliable switching**
- **EDID Minder automatically manages EDID communication between connected devices**
- **Buffered HDMI input loop-through**
- **Bidirectional RS-232 and IR signals over fiber optic cabling**
- **Compatible with Extron FOX Series matrix switchers to create HDCP-compliant signal distribution systems up to 1000x1000 and larger**
- **Available in multimode and singlemode models**

	Maximum Resolution	Maximum Frame Rate	Color Sampling	Bits Per Pixel
1 Fiber	4096x2160	30	4:4:4	24
2 Fibers	4096x2160	60	4:4:4	24

*** Two transmitters are configured to send left and right video images, each at 2048 x 2160 at 60 Hz.**

SPECIFICATIONS

NOTE: These transmitters are class 1 laser products. They meet the safety regulations of IEC-60825.

OPTICAL FIBER INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER	
Connectors	2 LC connectors
Nominal peak wavelength	850 nm for multimode, 1310 nm for singlemode
Optical loss budget	
Singlemode	13 dB, maximum
Multimode	7 dB, maximum
VIDEO	
Maximum pixel clock	300 MHz
Maximum resolution	640x480 up to 4096x2160 @ 30 Hz, including 2K, and 1920x200, including 480p, 576p, 720p, 1080i @ 25/30 Hz, 1080p @50/60Hz
Formats	RGB and YCbCr digital video
Standards	DVI 1.0, HDMI, HDCP 1.1, CEA-861E
VIDEO INPUT AND LOOP THROUGH — TRANSMITTERS	
Number/signal type	1 HDMI input 1 HDMI loop-through
AUDIO INPUT	
Connectors	1 female HDMI (shared with video input) (1) 3.5 mm stereo jack (1) 3.5 mm captive screw connector, 5 pole
Source formats	PCM, Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX, Dolby® Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, DTS-HD Master Audio, DTS-HD, DTS Digital Surround 5.1, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1
AUDIO RETURN OUTPUT	
Number/signal type	1 stereo/mono, balanced or unbalanced
CONTROL/REMOTE	
Serial control port	
Control	1 female mini USB port B (front panel) 1 RS-232, 3.5 mm captive screw connector, 5-pole (3 pins are used), rear panel
Pass-through	1 RS-232, 3.5 mm captive screw connector, 5-pole (3 pins are used), rear panel
IR control port	(1) 3.5 mm captive screw connector, 5 pole (connector is shared with RS-232 pass thru) TTL level (0 to 5V) modulated infrared control from 30kHz to 40 kHz
GENERAL	
Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Environmental	Complies with the appropriate requirements of RoHS, WEEE.
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part number
FOX II T HD 4K MM	HDMI Transmitter - Multimode	60-1351-11
FOX II T HD 4K SM	HDMI Transmitter - Singlemode	60-1351-12

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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