# **DTP HDMI 4K 230**

## HDMI TWISTED PAIR EXTENDER









DTP HDMI 4K 230 Tx



The Extron DTP HDMI 4K 230 extender sends HDMI, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a shielded CATx cable. The HDCP-compliant extender set features a compact enclosure that enables discreet installation in a wide variety of applications.

- ▶ Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- ▶ Bidirectional RS-232 and IR passthrough for AV device control
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and **CEC** pass-through
- ▶ HDCP compliant
- Supports EDID and HDCP transmission
- Remote power capability
- ▶ UL 2043 plenum rated receiver
- **▶** Compatible with all DTP<sup>™</sup> 230 Series models and DTP-enabled products
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- ▶ Highly reliable, energy-efficient external universal power supply included with Tx models

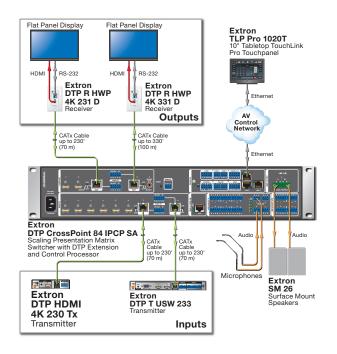


#### DESCRIPTION

The Extron **DTP HDMI 4K 230** is a transmitter and receiver set for sending HDMI, audio, and bidirectional RS-232 and IR signals up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP™-enabled products. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. The DTP HDMI 4K 230 accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. The DTP HDMI 4K 230 enables the reliable transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC pass-through, and embedded HD lossless audio formats. In addition, DDC communication of EDID and HDCP is continuously maintained between a source and display, ensuring direct compatibility and optimal signal transmission between devices.

For installation flexibility, the DTP HDMI 4K 230 transmitter or receiver can be remotely powered over the shielded twisted pair cable by a DTP-enabled product. The twisted pair extender also supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system for AV device control. The DTP HDMI 4K 230 can be integrated with an Extron DTP CrossPoint® 84 Presentation Matrix Switcher, or other DTP-enabled products to support inputs, plus displays and other output devices at remote locations.

### **APPLICATION DIAGRAM**



#### **SPECIFICATIONS**

#### TRUE 4K SPECIFICATION Max 4K Capabilities Resolution and Refresh Rate **Chroma Sampling** Max Bit Depth per Color 4096 x 2160 at 30 Hz 4:4:4 3840 x 2160 at 30 Hz 8 bit 4096 x 2160 at 60 Hz 4:2:0 3840 x 2160 at 60 Hz Frame rate1 24, 25, 30, 50, or 60 fps Chroma sampling1 4:4:4, 4:2:2, or 4:2:0 Color bit depth1 8 bits per color HDMI 1.4, HDCP 2.3 Signal type

Max. video data rate 10.2 Gbps (3.4 Gbps per color)

NOTE: \(^1\)Subject to the maximum data rate limit. Use our calculator (http://www.extron.com/product/videotools.aspx) to determine video parameters supported by this data rate.

VIDEO INPUT - 1	FRANSMITTER		
Connectors		1 female HDMI type A	
INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER			
Signal transmission di	stance		
1080p @ 60 Hz		Up to 230' (70 m) using shielded twisted pair (STP) cable	
2560x1600 @ 60 Hz		or XTP DTP 24 STP cable	
		Up to 130' (40 m) using shielded twisted pair (STP) cable	
4K/UHD @ 30Hz and 60 Hz		or XTP DTP 24 STP cable Up to 130' (40 m) using shielded twisted pair (STP) cable	
41VUI ID 🛩 SUNZ AIIU OU NZ		or XTP DTP 24 STP cable	
Cable requirements		Solid conductor, 24 AWG or better	
		400 MHz bandwidth, STP (shielded twisted pair)	
<b>NOTE:</b> Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.			
VIDEO OUTPUT — RECEIVER			
Connectors		1 female HDMI type A	
AUDIO INPUT			
Number/signal type NOTE: Analog audio is embedded from the digi		1 PC level stereo, unbalanced ne digital video signal. Embedded digital au	dio is not de-
AUDIO OUTPUT			
Number/signal type		1 stereo (2 channel), balanced/unbalanced	
GENERAL			
Power supply		External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts	
Model DTP HDMI 4K 230 Tx DTP HDMI 4K 230 Rx	Version Description HDMI Tx - 230 feet (7 HDMI Rx - 230 feet (7	70 m)	Part number 60-1271-12 60-1271-13
Decorator-Style  Model  DTP HDMI 4K 230 D Tx  DTP HDMI 4K 230 D Tx  DTP HDMI 4K 230 D Rx  DTP HDMI 4K 230 D Rx		lack - 230 feet (70 m) 'hite - 230 feet (70 m) lack - 230 feet (70 m)	Part number 60-1441-12 60-1441-13 60-1441-22 60-1441-23

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

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