

# DTP DVI 4K 230

## DVI TWISTED PAIR EXTENDER

**DTP**  
SYSTEMS

**4K UHD**



The Extron DTP DVI 4K 230 extender sends single link DVI-D video, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a shielded CATx cable. Local monitor support enables simplified PC integration. The DTP DVI 4K 230 features a compact enclosure that enables discreet installation in a wide variety of applications.

- ▶ Transmits single link DVI-D 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 pass-through for AV device control
- ▶ Accepts additional analog stereo audio signals
- ▶ DVI input loop-through
- ▶ Supports EDID and HDCP transmission
- ▶ DDC routing to local or remote display
- ▶ Remote power capability
- ▶ UL 2043 plenum rated receiver
- ▶ 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
- ▶ Compatible with all DTP™ 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



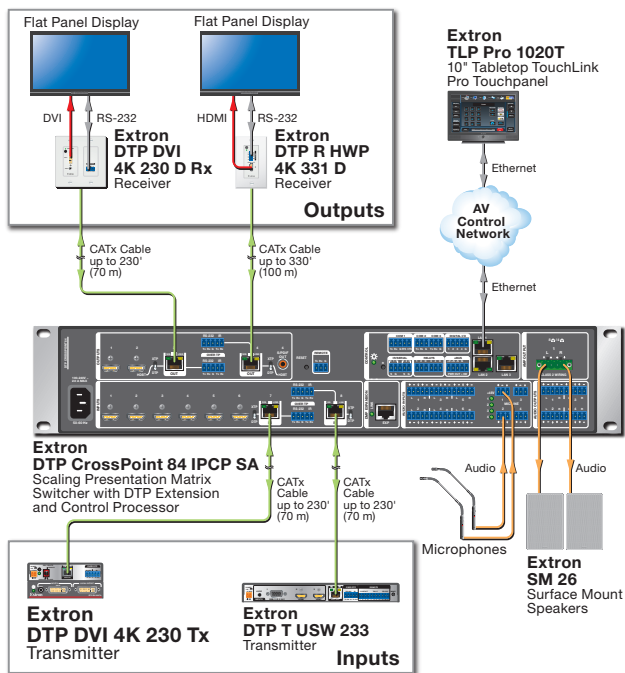
**Extron® Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DTP DVI 4K 230** is a transmitter and receiver set for sending DVI-D video, 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 single link DVI-D or HDMI signals. The DTP DVI 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 transmitter is equipped with a buffered DVI loop-through output to support a local computer monitor. DDC communication of EDID and HDCP is selectable between the local or remote display and is continuously maintained between a source and display.

The DTP DVI 4K 230 is fully compatible with HDMI signals when used with the appropriate DVI-HDMI adapters from Extron. For installation flexibility, the 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 DVI 4K 230 can be integrated with an Extron DTP CrossPoint® 84 Presentation Matrix Switcher, or other DTP-enabled products to support sources, 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 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	
Frame rate <sup>1</sup>	24, 25, 30, 50, or 60 fps	
Chroma sampling <sup>1</sup>	4:4:4, 4:2:2, or 4:2:0	
Color bit depth <sup>1</sup>	8 bits per color	
Signal type	HDMI 1.4, HDCP 2.3	
Max. video data rate	10.2 Gbps (3.4 Gbps per color)	
<b>NOTE:</b> <sup>1</sup> Subject to the maximum data rate limit. Use our calculator at <a href="http://www.extron.com/4Kdata">www.extron.com/4Kdata</a> to determine video parameters supported by this data rate.		

### INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

#### DTP signal

Signal transmission distance

1080p @ 60 Hz Up to 230' (70 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable

2560x1600 @ 60 Hz Up to 130' (40 m) using STP cable or XTP DTP 24 cable

4K/UHD @ 30 and 60 Hz Up to 130' (40 m) using STP cable or XTP DTP 24 cable

Cable requirements Solid conductor, 24 AWG or better

Cable recommendations 400 MHz bandwidth STP cable

**NOTE:** Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

### AUDIO INPUT – TRANSMITTER

Number/signal type 1 PC level stereo, unbalanced

**NOTE:** Analog audio is not embedded onto the digital video signal. Embedded digital audio is not de-embedded from the digital video signal.

### CONTROL/REMOTE

external device (pass-through, unidirectional or bidirectional)

Serial control port input

Transmitter RS-232 via (1) 3.5 mm, 5 pole captive screw connector (connector is shared with IR control port)

IR control port

(1) 3.5 mm, captive screw connector, 5 pole (connector is shared with RS-232 control port)

TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz

### GENERAL

Power supply

External

Input: 100-240 VAC, 50-60 Hz

Output: 12 VDC, 1 A, 12 watts

**NOTE:** Shipping dimensions and weights are available at [www.extron.com](http://www.extron.com).

Model	Version Description	Part number
DTP DVI 4K 230 Tx	DVI Tx - 230 feet (70 m)	60-1272-12
DTP DVI 4K 230 Rx	DVI Rx - 230 feet (70 m)	60-1272-13

### Decorator-Style

Model	Version Description	Part number
DTP DVI 4K 230 D Tx	Decorator-Style Tx, Black - 230 feet (70 m)	60-1214-12
DTP DVI 4K 230 D Tx	Decorator-Style Tx, White - 230 feet (70 m)	60-1214-13
DTP DVI 4K 230 D Rx	Decorator-Style Rx, Black - 230 feet (70 m)	60-1214-22
DTP DVI 4K 230 D Rx	Decorator-Style Rx, White - 230 feet (70 m)	60-1214-23

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

### WORLDWIDE SALES OFFICES

Anaheim • Raleigh • Silicon Valley • Dallas • New York • Washington, DC • Toronto • Mexico City • Paris  
London • Frankfurt • Madrid • Stockholm • Amersfoort • Moscow • Dubai • Johannesburg • Tel Aviv • Sydney  
Melbourne • Bangalore • Mumbai • New Delhi • Singapore • Seoul • Shanghai • Beijing • Hong Kong • Tokyo

[www.extron.com](http://www.extron.com)