

DTP DVI 230

DVI TWISTED PAIR EXTENDER

- ▶ Transmits single link DVI-D plus control and analog audio over a single CATx cable
- ▶ Extends 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters)
- ▶ Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- ▶ Bidirectional RS-232 and IR control pass-through
- ▶ Accepts additional analog stereo audio signals
- ▶ DVI input loop-through
- ▶ Supports EDID and HDCP transmission
- ▶ DDC routing to local or remote display
- ▶ Remote powering of transmitter or receiver
- ▶ Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- ▶ RJ-45 signal and link LED indicators for DTP port
- ▶ Compatible with all DTP DVI 230 and DTP HDMI 230 models
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- ▶ Energy-efficient external universal power supply included with Tx models



DTP DVI 230 Tx

DTP DVI 230 Rx

The Extron DTP DVI 230 extender sends single link DVI-D video, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a single CATx cable. The DTP DVI 230 delivers superior image quality by maintaining the digital signal path of HDTV and high resolution computer-video throughout the system.



Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

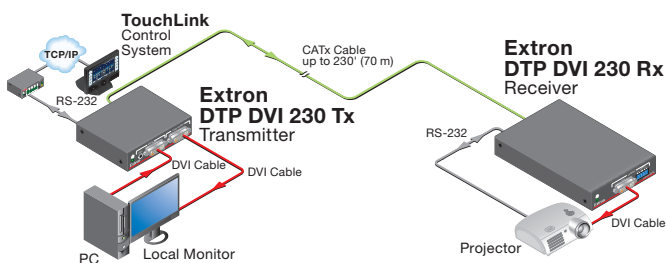
The Extron **DTP DVI 230** is a transmitter and receiver set for transmission of DVI-D video, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending single link DVI-D or HDMI signals. In addition, the DTP DVI 230 accepts analog stereo audio signals and digitizes them for simultaneous transmission over the same twisted pair cable. It is capable of sending 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters). 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. This ensures direct compatibility and optimal signal transmission between devices.

The DTP DVI 230 can be used as a point to point solution or integrated with a DVI switching and distribution system to extend inputs or outputs to remote locations. In addition, the DTP DVI 230 is fully compatible with HDMI signals when used with the appropriate DVI-HDMI adapters from Extron. The twisted pair extender supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system, providing remote control to source equipment or remote displays. Also, either device can be remotely powered over the twisted pair cable.

KEY FEATURES

- ▶ Transmits single link DVI-D plus control and analog audio over a single CATx cable
- ▶ Extends 1920x1200 and 1080p/60 Deep Color signals up to 230 feet (70 meters)
- ▶ Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- ▶ Extron strongly recommends using shielded twisted pair cabling for optimal performance
- ▶ Accepts additional analog stereo audio signals
- ▶ DVI input loop-through
- ▶ Remote powering of transmitter or receiver

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO		
Maximum data rate	6.75 Gbps (2.25 Gbps per color)	
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz; 8, 10, or 12 bit color depth	
VIDEO INPUT — TRANSMITTER		
Connectors	2 female DVI-I	
INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER		
Connectors	1 female RJ-45 per unit	
Signal transmission distance	Up to 230' (70 m) using CAT 5e/6/6a/7 UTP or STP cable (solid conductor 24 AWG or better)	
NOTE: The use of shielded twisted pair cabling (STP) is strongly recommended for optimal performance.		
VIDEO OUTPUT — RECEIVER		
Connectors	1 female DVI-I	
AUDIO INPUT		
Number/signal type	1 PC level stereo, unbalanced	
AUDIO OUTPUT		
Number/signal type	1 stereo (2 channel), balanced/unbalanced	
Connectors	(1) 3.5 mm captive screw connector, 5 pole	
CONTROL/REMOTE		
External device (pass-through, unidirectional or bidirectional)		
Serial control port input/output		
Transmitter	RS-232 via (1) 3.5 mm, 5 pole captive screw connector for RS-232 control (±5 V) (connector is shared with IR control port)	
Serial control port output/input		
Receiver	RS-232 via a 3.5 mm, 3 pole captive screw connector	
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		
Model	Version Description	Part number
DTP DVI 230 Tx	DVI Transmitter	60-1272-12
DTP DVI 230 Rx	DVI Receiver	60-1272-13
Decora Style		
Model	Version Description	Part number
DTP DVI 230 D Tx	Decora Transmitter - Black	60-1214-12
DTP DVI 230 D Tx	Decora Transmitter - White	60-1214-13
DTP DVI 230 D Rx	Decora Receiver - Black	60-1214-22
DTP DVI 230 D Rx	Decora Receiver - White	60-1214-23

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

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