# **DTP HDMI 230**

# HDMI TWISTED PAIR EXTENDER





DTP HDMI 230 Tx

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

- Transmits HDMI plus control and analog audio over a single CATx cable
- Extends 1080p/60 Deep Color and 1920x1200 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
- 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
- ▶ HDCP compliant
- Supports EDID and HDCP transmission
- Remote powering of transmitter or receiver
- LED indicator for signal presence and power
- RJ-45 signal and link LED indicators for DTP port
- ▶ 1" (2.5 cm) high, quarter rack width metal enclosures
- Energy-efficient external universal power supply included with Tx models



#### DESCRIPTION

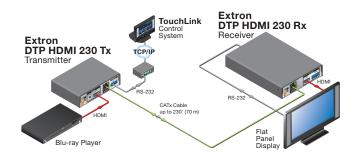
The Extron **DTP HDMI 230** is a transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 accepts separate analog stereo audio signals and digitizes them for simultaneous transmission over the same single twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The DTP HDMI 230 enables the reliable, long distance transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC, 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.

The DTP HDMI 230 can be used as a point-to-point solution or integrated within HDMI switching and distribution environments to extend inputs or outputs to remote locations. 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, allowing both devices to share one external power supply.

### **KEY FEATURES**

- Transmits HDMI plus control and analog audio over a single CATx cable
- Extends 1080p/60 Deep Color and 1920x1200 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
- 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
- Remote powering of transmitter or receiver

#### **APPLICATION DIAGRAM**



## **SPECIFICATIONS**

NOTE: *Appropriate	te HDMI to DVI-D cables o	or adapters are required for DVI signal input/o	utput.		
VIDEO					
Maximum data rat Resolution range	е	6.75 Gbps (2.25 Gbps per color) Up to 1920x1200 or 1080p @ 60 Hz; 8, color depth	10, or 12 bit		
VIDEO INPUT — TRANSMITTER					
Number/signal type 1 single link HDMI (or DVI-D*)					
INTERCONN	IECTION BETWE	EEN TRANSMITTER AND RE	CEIVER		
Connectors Signal transmissio	n distance	1 female RJ-45 per unit Up to 200' (60 m) using CAT 5e/6/7 UTP (24 AWG or better) Up to 230' (70 m) using CAT 6a UTP or S' (24 AWG or better)			
VIDEO OUTPUT — RECEIVER					
Number/signal typ	е	1 single link HDMI (or DVI-D*)			
AUDIO					
Gain Frequency respons	se	Unbalanced output: 0 dB; balanced output 20 Hz to 20 kHz, ±0.5 dB	t +6 dB		
AUDIO INP	UT				
Number/signal typ	e	1 PC level stereo, unbalanced			
AUDIO OU	TPUT				
Number/signal typ	е	1 stereo (2 channel), balanced/unbalance	d		
CONTROL/REMOTE					
External device (pa Serial control port Transmitter	ass-through, unidirectio input/output	RS-232 via (1) 3.5 mm, 5 pole captive sc for RS-232 control (±5 V) (connector is sf			
Baud rates		control port) Up to 115200 baud			
IR control port		(1) 3.5 mm, captive screw connector, 5 postared with RS-232 control port) TTL level (0 to 5 V) modulated infrared co 30 kHz up to 60 kHz			
GENERAL					
Power supply		External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts			
Power consumption		11.0 watts, 12 VDC, total, for both transmitter and receiver			
Enclosure type Enclosure dimensi	ons	Metal			
Transmitter  Receiver	UIIS	1.0" H x 4.3" W x 3.0" D (quarter rack wi (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.) 1.0" H x 4.3" W x 6.0" D (quarter rack wi (2.5 cm H x 10.9 cm W x 15.2 cm D)	•		
Model DTP HDMI 230 Tx DTP HDMI 230 Rx	Version Description HDMI Transmitter HDMI Receiver	(Depth excludes connectors.)	Part number 60-1271-12 60-1271-13		

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

Worldwide Sales Offices

Anaheim • Raleigh • Silicon Valley • Dallas • Chicago • New York • Washington, DC • Toronto • Mexico City • Paris • London • Frankfurt

Amersfoort • Moscow • Dubai • Johannesburg • New Delhi • Bangalore • Singapore • Seoul • Shanghai • Beijing • Tokyo

UNITED STATES	EUROPE	ASIA	MIDDLE EAST
+800.633.9876 Inside USA/Canada	+800.3987.6673 Inside Europe	+800.7339.8766 Inside Asia	+971.4.2991800
+1 714 491 1500	+31 33 453 4040	+65 6383 4400	