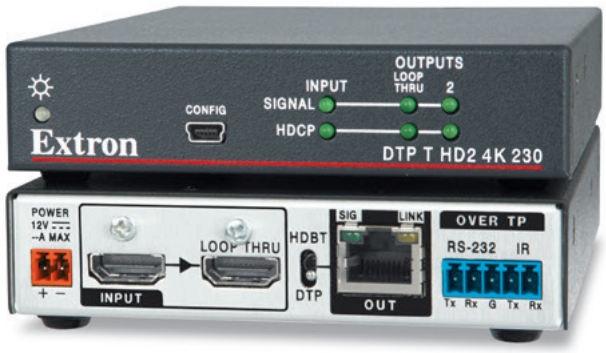
DTP T HD2 4K 230

DTP TRANSMITTER FOR HDMI WITH INPUT LOOP-THROUGH

DTP SYSTEMS 4K UHD



- Transmits HDMI plus control up to 230 feet (70 meters) over a shielded CATx cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Buffered HDMI input loop-through
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP® output is compatible with HDBaseT-enabled devices
- Bidirectional RS-232 and IR pass-through for AV device control
- Remote power capability
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- Key Minder®
- EDID Minder®
- Compatible with all DTP 230 Series receivers and DTP-enabled products
- Rack-mountable 1" (2.5 cm) high, quarter rack width metal enclosure
- Highly reliable, energy-efficient external universal power supply included

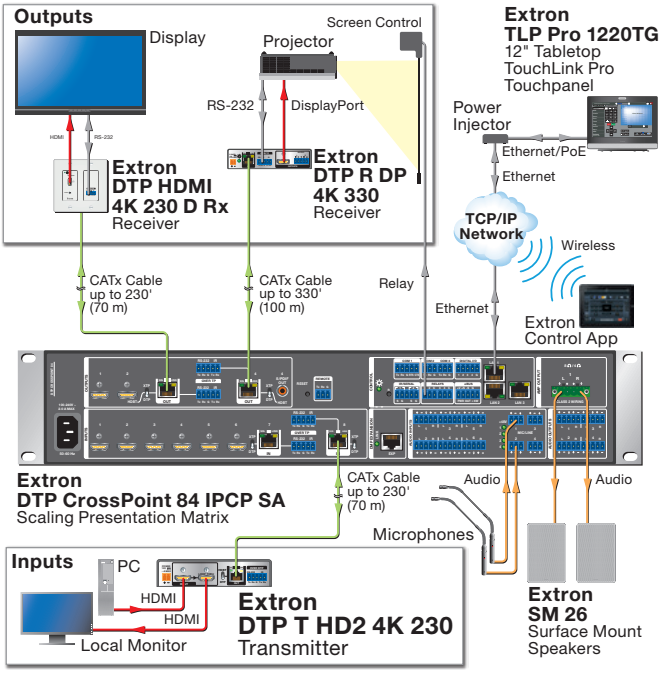
The Extron DTP T HD2 4K 230 transmitter sends HDMI with embedded audio, plus bidirectional control signals up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP®-enabled products. The HDCP-compliant transmitter includes several integrator-friendly features that streamline installation. Its compact enclosure enables discreet installation in a wide variety of applications.

DESCRIPTION

The Extron **DTP T HD2 4K 230** is a transmitter for sending HDMI with embedded 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 one HDMI input with loop-through to support local monitoring of digital video, and one DTP output. The DTP T HD2 4K 230 supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. It offers many integrator-friendly features such as EDID Minder, Key Minder, bidirectional RS-232 and IR pass-through for remote AV device control, and compatibility with HDBaseT-enabled devices. The compact enclosure size and remote power capability make the DTP T HD2 4K 230 ideal for discreet placement in lecterns, beneath tables, or wherever needed to meet application requirements.

To enhance and simplify integration, the DTP T HD2 4K 230 includes automatic input cable equalization and automatic color bit depth management. It also offers an HDBaseT output mode for sending digital video and embedded audio, plus bidirectional control signals to any HDBaseT-enabled display. The DTP T HD2 4K 230 can be integrated with an Extron DTP CrossPoint® Presentation Matrix Switcher, or other DTP-enabled products to support sources at remote locations.

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max. 4K Capabilities		
Resolution and Frame 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[1]	24, 25, 30, 50, or 60 fps
Chroma sampling[1]	4:4:4, 4:2:2, or 4:2:0
Color bit depth[1]	8 bits per color
Signal type	HDMI, HDCP
Max. video data rate	10.2 Gbps (3.4 Gbps per color)

NOTE: Subject to the maximum data rate limit. Use our calculator to determine video parameters supported by this data rate.

INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Connector	1 RJ-45 jack
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 @ 30Hz 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 (shielded twisted pair)

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

NOTE: Output mode signaling:

DTP: HDMI with embedded audio, analog audio, RS-232 and IR, and remote power

HDBaseT: HDMI with embedded audio plus RS-232 and IR

CONTROL/REMOTE

USB control port	1 front panel female mini USB B
Program control	Extron Simple Instruction Set (SIS™), Extron Product Configuration Software (PCS)

COMMUNICATIONS — EXTERNAL DEVICE (RS-232/IR OVER TP)

Serial control port	RS-232 via (1) 3.5 mm, 5-pole captive screw connector (connector is shared with IR control ports)
IR pass-through control port	(1) 3.5 mm, 5-pole captive screw connector (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
Enclosure dimensions	1.0" H x 4.3" W x 6.0" D (1" high, 1/4 rack wide) 2.5 cm H x 10.9 cm W x 15.2 cm D (depth excludes connectors)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE**, C-tick, FCC Class A**, ICES, VCCI

Model	Version Description	Part number
DTP T HD2 4K 230	HDMI Tx - 230 feet (70 m)	60-1491-12

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

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