

Specifications

DTP T HD2 4K 230

TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 30 Hz	4:4:4	8 bit
3840 x 2160 at 30 Hz		
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
Signal type¹ HDMI, HDCP
Maximum video data rate¹ 10.2 Gbps (3.4 Gbps per color)

NOTE: ¹Subject 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

Maximum data rate 10.2 Gbps (3.4 Gbps per color)
Maximum pixel clock 300 MHz
Resolution range Up to 2560x1600* @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling (*Reduced blanking)
Color bit depth 8, 10, or 12 bits — subject to the maximum data rate limit
Formats RGB and YCbCr digital video
Standards DVI 1.0, HDMI, HDCP, CEA-861E

Video input

NOTE: *Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

Number/signal type 1 single link HDMI (or DVI-D*)
Connector 1 female 19-pin HDMI type A
Input cable length Up to 50' (15 m) with 225 MHz signal, 100' (30 m) with 165 MHz signal

Video output

Number/signal type 1 single link HDMI (Loop Thru)
1 DTP 230 (Output)

Interconnection between transmitter and receivers

Connector 1 RJ-45 jack
Termination standards TIA/EIA T568B

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.

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
USB standards	USB 2.0, low speed
Program control	Extron Simple Instruction Set (SIS™), Extron Product Configuration Software (PCS)

Communications – external device (RS-232/IR over TP)

NOTE: Protocol is mirrored between the connected DTP 230 Rx or DTP 330 Rx endpoints and the "Over TP" ports on the DTP T HD2 4K series. Signals from a control device pass into each "Over TP" port, are embedded with the DTP signal, and sent to the individual DTP 230 Rx or DTP 330 Rx endpoints for control of remote sink or source devices. The "Over TP" ports are simply pass-through connections to DTP endpoints. There is no RS-232 or IR insertion from any DTP T HD2 4K control port to the "Over TP" ports.

Serial control port.....	RS-232 via (1) 3.5 mm, 5-pole captive screw connector (connector is shared with IR control ports)
Baud rate and protocol	300 to 115200 baud, 8 or 7 data bits, 1 or 2 stop bits, non-parity (default), even or odd parity
Serial control pin configuration	Captive screw connectors: 1 = Tx, 2 = Rx, 3 = Gnd
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
IR control pin configuration	3 = Gnd, 4 = IR Tx, 5 = IR Rx

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device	10.3 watts
Device and power supply	12.8 watts
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, with vents
Thermal dissipation	
Device	18.1 BTU/hr
Device and power supply	26.8 BTU/hr
Rack mount	Yes
Enclosure type	Metal
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)
Product weight	0.5 lb (0.3 kg)
Shipping weight	1.0 lb (0.5 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety	CE, c-UL, UL
EMI/EMC.....	CE**, C-tick, FCC Class A**, ICES, VCCI
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE

NOTE: **CE and FCC testing is conducted with STP cable.

Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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