Specifications DTP T HWP 4K 331 D

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 1.4, HDCP 2.3

 Maximum video data rate¹
 10.2 Gbps (3.4 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at **www.extron.com/8Kdatarate** to determine video parameters supported by this data rate.

Video

Video input

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

Specifications • DTP T HWP 4K 331 D (Continued)

Interconnection between transmitter and receiver

Termination standards...... TIA/EIA T568B

DTP signal

Signal transmission distance

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

Audio

Gain...... Unbalanced output: 0 dB; balanced output: +6 dB

Stereo channel separation......>80 dB @ 1 kHz to 20 kHz

Audio input

Number/signal type...... 1 stereo (2 channel), unbalanced

NOTE: Analog audio is not embedded onto the digital video signal. Analog audio and digital embedded audio are transmitted simultaneously and output on the receiver on two different connectors.

Impedance>10k ohms, DC coupledNominal level-10 dBV (316 mVrms)Maximum level+7 dBV, unbalanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

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

(connector is shared with in control port

NOTE: Protocol is mirrored between the connected DTP 230 or DTP 330 endpoints and the "Over TP" ports on the DTP T HWP 4K 331 D. Signals from a control device pass into each "Over TP" port, are embedded with the DTP signal, and sent to the individual DTP 230 Tx or Rx endpoints for control of remote sink or source devices. The "Over TP" ports are simply pass-through connections to DTP endpoints.

or odd parity

Serial control pin configurations...... Captive screw connectors: 1 = Tx, 2 = Rx, 3 = Gnd

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

Specifications • DTP T HWP 4K 331 D (Continued)

General

Power supply..... External

Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts

Power consumption

NOTE: Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the twisted pair cable.

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, no vents

Thermal dissipation

Mounting

Furniture or wall mount Yes, with a 1 gang wall box or mud ring

Enclosure type Metal

Enclosure dimensions

Faceplate 2.6" H x 1.3" W x 0.3" D

 $(6.6 \text{ cm H} \times 3.3 \text{ cm W} \times 0.6 \text{ cm D})$

Device 2.8" H x 1.7" W x 1.9" D

(7.1 cm H x 4.3 cm W x 4.8 cm D)

NOTES:

 Overall height is 4.2" (10.7 cm), including mounting tabs. Mounting holes are 3.2" (8.2 cm) apart on center.

• Depth excludes connectors. Fits the opening in a 1 gang decorator wallplate)

Product weight 0.2 lbs (0.1 kg)

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

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

NOTE: Specifications are subject to change without notice.

NOTE: Shipping dimensions and weights are available at **www.extron.com**.

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