

Specifications

DTP R HWP 4K 231 D

TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096x2160 at 30 Hz	4:4:4	8 bit
3840x2160 at 30 Hz		
4096x2160 at 60 Hz	4:2:0	
3840x2160 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 (www.extron.com/8Kdata rate) to determine video parameters supported by this data rate.

Video

HDMI output

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 1.4, HDCP 2.3, CEA-861E

Video output

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

Number/signal type 1 single link HDMI (or single link DVI-D*) output
 Connectors 1 female HDMI, type A

Interconnection between transmitter and receiver

Signal type 1 DTP 230 input
 Connectors 1 female RJ-45 jack
 Termination standards TIA/EIA-T568B
 DTP signal
 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

Audio

Gain.....	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise	0.03% @ 20 Hz to 20 kHz at maximum output
S/N	>90 dB at maximum output (15 dBu), balanced (unweighted)
Stereo channel separation.....	>80 dB @ 1 kHz to 20 kHz

Audio output

Number/signal type.....	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm 5-pole captive screw
Impedance.....	50 ohm, unbalanced
Gain error	± 0.2 dB channel to channel
Maximum level	>+14 dBu, balanced

NOTES:

- 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV $\approx$ 2 dBu
- Analog audio is not embedded onto the HDMI/digital signal. Analog audio and embedded digital audio are transmitted simultaneously and output on the receiver on two different connectors.

General

Power supply	External (not included) Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
Power consumption	
Device	8.2 watts
Device and power supply	8.9 watts

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	
Device	17.5 BTU/hr
Device and power supply	20.2 BTU/hr
Enclosure type	Metal
Enclosure dimensions	
Faceplate	2.6" H x 1.3" W x 0.2" D (6.6 cm H x 3.3 cm W x 0.6 cm D) Fits the opening in a 1 gang decorator wallplate
Device	4.2" H x 1.7" W x 2.2" D (10.7 cm H x 4.3 cm W x 5.8 cm D)

Product weight 0.34 lbs (0.15 kg)
Regulatory compliance..... c-UL, C-tick, CE**, FCC Class A**, ICES, UL, VCCI 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.

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

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