

Specifications

DTP T DWP 4K 332 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 | | |

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|--------------------------------------|--|
| Frame rate ¹ | 24, 25, 30, 50 ² , or 60 ² fps |
| Chroma sampling ¹ | 4:4:4, 4:2:2, or 4:2:0 ² |
| Color bit depth ¹ | 8 bits per color |
| Signal type ¹ | HDMI 1.4, DisplayPort 1.1a, HDCP 1.4 |
| Maximum video data rate ¹ | |
| HDMI | 10.2 Gbps (3.4 Gbps per color) |
| DisplayPort | 10.8 Gbps (2.7 Gbps per lane) |

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

²Applicable to HDMI signals only.

Video

HDMI input

| | |
|---------------------------|---|
| 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) |
| Formats | RGB and YCbCr digital video |
| Standards | DVI 1.0, HDMI 1.4 |

DisplayPort input

| | |
|---------------------------|--|
| Maximum data rate | 10.8 Gbps (2.7 Gbps per lane) |
| Maximum pixel clock | 300 MHz |
| Resolution range | Up to 2560x1600* @ 60 Hz or 4K (4096x2160) @ 30 Hz (*Reduced blanking) |
| Formats | RGB and YCbCr digital video |
| Standards | DisplayPort 1.1a |

Specification • DTP T/R DP 4K 330 (Continued)

Video input

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

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

Interconnection between transmitter and receiver

| | |
|------------------------------|--|
| Signal type..... | 1 DTP 330 output |
| Connectors..... | 1 female RJ-45 jack |
| Termination standards..... | TIA/EIA T568B |
| DTP signal | |
| Signal transmission distance | |
| 1080p @ 60 Hz..... | Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable |
| 2560x1600 @ 60Hz..... | Up to 330' (100 m) using STP cable or XTP DTP 24 cable |
| 4K/UHD @ 30 and 60 Hz... | Up to 330' (100 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:

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|-----------------|---|
| 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

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|--------------------------------|--------------------------------------|
| Frequency response | 20 Hz to 20 kHz, ± 0.5 dB |
| THD + Noise | 0.03% @ 1 kHz at nominal level |
| S/N..... | >90 dB at maximum input (unweighted) |
| Stereo channel separation..... | >80 dB @ 1 kHz |

Audio input

| | |
|-------------------------|--|
| Number/signal type..... | 2 stereo, unbalanced |
| Connectors..... | (2) 3.5 mm mini audio jacks; tip (L), ring (R), sleeve (Gnd) |
| Impedance..... | >10k ohms, DC coupled |
| Nominal level..... | -10 dBV (316 mVrms) |
| Maximum level..... | +6 dBV, unbalanced |

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Communications – switcher

| | |
|------------------------------|---|
| Serial control port..... | RS-232 via 1 rear panel 3.5mm, 3-pole captive screw connector |
| Pin configuration | 1 = Tx, 2 = Rx, 3 = Gnd |
| Baud rate and protocol | 9600 baud rate, 8 data bits, 1 stop bit, no parity |
| USB control port | 1 front panel female mini USB type B |
| USB standards | USB 2.0, high speed |
| Program control..... | Extron Simple Instruction Set (SIS™) |

Specification • DTP T/R DP 4K 330 (Continued)

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

NOTE: Protocol is mirrored between the connected DTP 230 or DTP 330 endpoints and the "Over DTP" ports on the DTP T DWP 4K 332 D. Signals from a control device pass into each "Over DTP" 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.

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| Serial control pass-through port | Bidirectional RS-232 |
| Connector..... | (1) 3.5 mm captive screw connector, 5-pole (shared with IR port) |
| 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 | 1 = Tx, 2 = Rx, 3 = Gnd |
| IR pass-through control port | 1 bidirectional TTL level (0 to 5V) modulated infrared control from 30 kHz up to 60 kHz (shared with RS-232 port) |
| IR control pin configuration | 3 = Gnd, 4 = IR Tx, 5 = IR Rx |

General

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|-------------------------------|---|
| Power supply | External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts |
| Power consumption | |
| Device | 6.6 watts |
| Device and power supply | 7.9 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.

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|-------------------------------|--|
| 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 | 22.4 BTU/hr |
| Device and power supply | 27.0 BTU/hr |
| Enclosure type | Metal |
| Enclosure dimensions | |
| Faceplate | Two 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 2 gang decorator wallplate |
| Device | Two 2.7" H x 3.5" W x 1.9" D (6.9 cm H x 8.9 cm W x 4.8 cm D) |
| Product weight | 0.4 lbs (0.2 kg) |
| Regulatory compliance..... | CE, c-UL UL, CE**, C-tick, FCC Class A**, ICES, VCCI, Complies with the appropriate requirements of RoHS, WEEE |

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

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|--------------------------------------|-------------------------|
| Warranty | 3 years parts and labor |
| Everlast power supply warranty | 7 years parts and labor |

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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

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