

Specifications

DTP T UWP 4K 332 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 | | |

| | |
|------------------------------------|--------------------------------|
| Frame rate ¹ | 24, 25, or 30 fps |
| Chroma sampling ¹ | 4:4:4, 4:2:2 |
| Color bit depth ¹ | 8 bits per color |
| Signal type | DVI 1.0, HDMI 1.4, HDCP 1.4 |
| Maximum video data rate | 10.2 Gbps (3.4 Gbps per color) |

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

Video

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

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|------------------------|--|
| Maximum data rate | |
| HDMI | 10.2 Gbps (3.4 Gbps per color) |
| VGA | 6.75 Gbps (2.25 Gbps per color) |
| Maximum pixel clock | |
| HDMI | 300 MHz |
| VGA | 165 MHz |
| Resolution range | Up to 1920x1200 or 1080p @ 60 Hz; 8 bit color depth 2048x1080 (2K) @ 60 Hz 4K (4096x2160) @ 30 Hz or 4K UHD (3840 x 2160) @ 30 Hz; 8-bit color |
| Formats | RGB digital video |
| Standards | DVI 1.0, HDMI, HDCP 1.2, EDID 1.3, CEA-861E |

Video input – HDMI

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

Video input – VGA

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|----------------------------------|--------------------------|
| Number/signal type | 1 analog RGBHV |
| Connectors | 1 female 15-pin HD (RGB) |
| Nominal level | 0.7 Vp-p for RGB |
| Minimum/maximum levels | 0.3 V to 1.45 Vp-p |
| Impedance | 75 ohms |
| Horizontal frequency | 15 kHz to 130 kHz |
| Vertical frequency | 30 Hz to 150 Hz |
| Return loss | <-30 dB @ 5 MHz |
| DC offset (max. allowable) | 250 mV |

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Interconnection between transmitter and receiver

| | |
|------------------------------|--|
| Signal type..... | 1 DTP 330 output |
| Connectors..... | 1 female RJ-45 |
| Termination standards..... | TIA/EIA T568B |
| Signal transmission distance | |
| 1080p @ 60 Hz..... | Up to 330' (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable |
| 2048x1080p @ 60 Hz..... | Up to 330' (100 m) using STP cable or XTP DTP 24 cable |
| 4K/UHD @ 30 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.

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 input

| | |
|--|---|
| Number/signal type | |
| Analog audio (over DTP)..... | 2 stereo, unbalanced |
| Digital audio..... | 1 embedded digital audio on DTP |
| Embedded digital audio source formats..... | 2-ch PCM, PCM, Dolby Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1 |
| Connectors..... | (2) 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground) |
| Impedance..... | >10k ohms, DC coupled |
| Nominal level..... | -10 dBV (316 mVrms) |
| Maximum level..... | +7 dBu, unbalanced |

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

Audio output

| | |
|--|---|
| Number/signal type | |
| Analog audio (over DTP)..... | 1 stereo, unbalanced |
| Digital audio..... | 1 embedded digital audio on DTP |
| Embedded digital audio source formats..... | 2-ch PCM, PCM, Dolby Digital 2/0, Dolby Digital 2/0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTS-ES Matrix 6.1, DTS-ES Discrete 6.1 |
| Connectors..... | 1 female RJ-45 jack |

Communications – transmitter

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|-------------------------------------|---|
| Serial control port..... | RS-232 via (1) 3.5 mm, 5-pole captive screw connector for RS-232 control (± 5 V) and contact closure input switching |
| Baud rate and protocol..... | 9600 baud rate, 8 data bits, 1 stop bit, no parity |
| Contact closure remote control..... | (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) |
| 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™) |

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Communications – external device (pass-through)

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|---------------------------------------|--|
| Serial control pass-through port..... | Bidirectional RS-232 |
| Connector | |
| DTP output..... | (1) 3.5 mm captive screw connector, 5-pole |
| 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 |

NOTE: Protocol is mirrored between the connected DTP 230 or DTP 330 endpoints and the "Over DTP" ports on the DTP T UWP 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 endpoints for control of remote sink or source devices.

General

| | |
|-------------------------------|----------------------------------|
| Power supply | External |
| | Input: 100-240 VAC, 50-60 Hz |
| | Output: 12 VDC, 1.5 A, 18 watts |
| Power consumption | |
| Device | 4.8 watts, 12 VDC |
| Device and power supply | 6.3 watts, 100-240 VAC, 50-60 Hz |

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, vented |
| Thermal dissipation | |
| Transmitter | |
| Device | 15.3 BTU/hr |
| Device and power supply... | 20.1 BTU/hr |
| Mounting | |
| Rack mount..... | Yes, with included rack ears |
| Enclosure type | Metal |
| Enclosure dimensions | |
| Faceplate | Two 2.60" H x 1.30" W x 0.20" D (66 mm H x 33 mm W x 6 mm D) (Fits the opening in a 2-gang decorator wallplate.) |
| Device | Two 2.70" H x 3.50" W x 1.90" D (69 mm H x 89 mm W x 48 mm D) |

NOTE: *Height is 4.2" (10.4 cm) including mounting tabs.

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|----------------------------|---|
| Product weight | 0.4 lbs (0.2 kg) |
| Regulatory compliance..... | AS/NZS, 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.

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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 $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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

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