The Extron DTP T HWP 4K 331 D is a single-gang decorator-style transmitter for sending HDMI, analog audio, and bidirectional control signals up to 330 feet (100 meters) over a shielded CATx cable to Extron DTP™ 330-enabled products. It is designed for efficient use within configurable rooms and environments offering limited space. The HDCP-compliant transmitter features a convenient one-gang form factor that offers maximum placement flexibility.
The Extron DTP T HWP 4K 331 D is a single-gang, decorator-style, long distance transmitter for sending HDMI, audio, and bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable to Extron DTP 330-enabled products. The one-gang form factor provides maximum space efficiency in wall mount, floor box, and furniture mount applications. The DTP T HWP 4K 331 D accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. The transmitter features remote power capability, bidirectional RS-232 and IR pass-through for remote AV device control, and an HDBaseT output mode for compatibility with any HDBaseT-enabled display. The single-gang wall-mountable design of the DTP T HWP 4K 331 D provides the convenience of placing input connections precisely where they are needed.

The DTP T HWP 4K 331 D enables the reliable transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC pass-through, and embedded HD lossless audio formats. DDC communication of EDID and HDCP is continuously maintained between a source and display, ensuring direct compatibility and optimal signal transmission between devices. For added installation flexibility, the transmitter can be remotely powered over the shielded twisted pair cable by a DTP 330-enabled product. The DTP T HWP 4K 331 D can be integrated with an Extron DTP CrossPoint® 84 Presentation Matrix Switcher, or other DTP 330-enabled products to support sources at remote locations.

**APPLICATION DIAGRAM**

![Diagram of DTP T HWP 4K 331 D](image)

**SPECIFICATIONS**

### True 4K Specification

<table>
<thead>
<tr>
<th>Resolution and Refresh Rate</th>
<th>Chroma Sampling</th>
<th>Max Bit Depth per Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>4096 x 2160 at 30 Hz</td>
<td>4:4:4</td>
<td>8 bit</td>
</tr>
<tr>
<td>3840 x 2160 at 30 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Frame rate<sup>1</sup>       | 24, 25, 30, 50, or 60 fps |
| Chroma sampling<sup>1</sup>  | 4:4:4, 4:2:2, or 4:2:0   |
| Color bit depth<sup>1</sup>  | 8 bit per color          |
| Signal type                  | HDMI 1.4, HDCP 2.2     |
| Max. video data rate         | 10.2 Gbps (3.4 Gbps per color) |

**NOTE:** Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdatarate to determine video parameters supported by this data rate.

**INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER**

<table>
<thead>
<tr>
<th>Connectors</th>
<th>1 female RJ-45 per unit for 1 cable connecting the transmitter and receiver</th>
</tr>
</thead>
</table>

**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 @ 60 Hz: 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
- 400 MHz bandwidth STP cable

**Cable recommendations**

- 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 R, and remote power
  - HDBaseT: HDMI with embedded audio plus RS-232 and R

**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.

<table>
<thead>
<tr>
<th>Connectors</th>
<th>(T) 3.5 mm stereo jack, 2 channel; (R) ring (R); sleeve (ground)</th>
</tr>
</thead>
</table>

**GENERAL**

- **Power supply:**
  - External
  - Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 1 A, 12 watts

**Enclosure dimensions**

- **Device:** 2.9” H x 1.7” W x 1.9” D
- **Weight:** (7.1 cm x 4.3 cm x 4.8 cm)

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Version Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTP T HWP 4K 331 D</td>
<td>HDMI Decorator-Style Tx, Black - 330 feet (100 m)</td>
<td>60-1421-52</td>
</tr>
<tr>
<td>DTP T HWP 4K 331 D</td>
<td>HDMI Decorator-Style Tx, White - 330 feet (100 m)</td>
<td>60-1421-53</td>
</tr>
</tbody>
</table>

For complete specifications, please go to www.extron.com. Specifications are subject to change without notice.

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