The Extron DTP HDMI 230 extender sends HDMI, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a single CATx cable. This HDCP-compliant extender set delivers superior image quality by maintaining the digital signal path of HDTV and high resolution computer-video throughout the system.
The Extron DTP HDMI 230 is a transmitter and receiver set for transmission of HDMI, audio, and bidirectional RS-232 and IR signals over a single CATx cable. It provides an economical and effective means for extending HDMI with embedded multi-channel audio from HDMI-equipped devices. In addition, the DTP HDMI 230 accepts separate analog stereo audio signals and digitizes them for simultaneous transmission over the same single twisted pair cable. It is capable of sending 1080p/60 Deep Color and 1920x1200 signals up to 230 feet (70 meters). The DTP HDMI 230 enables the reliable, long distance transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC, and embedded HD lossless audio formats. In addition, DDC communication of EDID and HDCP is continuously maintained between a source and display, ensuring direct compatibility and optimal signal transmission between devices.

The DTP HDMI 230 can be used as a point-to-point solution or integrated within HDMI switching and distribution environments to extend inputs or outputs to remote locations. The twisted pair extender supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system, providing remote control to source equipment or remote displays.

**KEY FEATURES**

- Transmits HDMI plus control and analog audio up to 230 feet (70 meters) over a single CATx cable
- Supports computer-video to 1920x1200, including HDTV 1080p/60 Deep Color and 2K
- Compatible with CAT 5e, CAT 6, and CAT 7 twisted pair cable
- Extron XTP™ DTP 24 Shielded Twisted Pair cable provides added protection from outside interference and ensures high quality signal transmission
- Accepts additional analog stereo audio signals
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC
- Remote powering of transmitter or receiver
- Plenum rated receiver – Meets UL 2043 for heat and smoke release, excluding power supply

**APPLICATION DIAGRAM**

![Diagram of Extron DTP HDMI 230 setup]

**SPECIFICATIONS**

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

**VIDEO**

<table>
<thead>
<tr>
<th>Maximum data rate</th>
<th>6.75 Gbps (2.25 Gbps per color)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution range</td>
<td>Up to 1920x1200 or 1080p @ 60 Hz, 8, 10, or 12 bit color depth</td>
</tr>
</tbody>
</table>

**VIDEO INPUT — TRANSMITTER**

| Connectors | 1 female HDMI type A |

**INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER**

| Connectors | 1 female RJ-45 per unit |

**VIDEO OUTPUT — RECEIVER**

| Connectors | 1 female HDMI type A |

**AUDIO INPUT**

| Number/signal type | 1 PC level stereo, unbalanced |

**AUDIO OUTPUT**

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

**CONTROL/REMOTE**

- **Serial control port input/output**
  - Transmitter: RS-232 via (1) 3.5 mm, 5 pole captive screw connector for RS-232 control (-0.5 V) (connector is shared with IR control port)
  - IR control port: (1) 3.5 mm, captive screw connector, 5 pole (connector is shared with RS-232 control port)
  - TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz

**GENERAL**

- **Power supply**
  - External: Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 1 A, 12 watts
- **Enclosure dimensions**
  - Transmitter: 1.0” H x 4.3” W x 3.0” D (quarter rack wide)
  - Receiver: 1.0” H x 4.3” W x 6.0” D (quarter rack wide)
- **Connection points**
  - Input: 1 female HDMI type A
  - Video output — receiver: 1 female HDMI type A
  - Audio output: 1 stereo (2 channel), balanced/unbalanced
  - Audio input: 1 stereo (2 channel), balanced/unbalanced
  - Video input — transmitter: 1 female HDMI type A
  - RS-232 via (1) 3.5 mm, 5 pole captive screw connector for RS-232 control (-0.5 V) (connector is shared with IR control port)

**MODEL VERSION DESCRIPTION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Version Description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTP HDMI/230 Tx</td>
<td>HDMI Transmitter</td>
<td>60-1271-12</td>
</tr>
<tr>
<td>DTP HDMI/230 Rx</td>
<td>HDMI Receiver</td>
<td>60-1271-13</td>
</tr>
<tr>
<td>DTP HDMI/230 D Rx Decora Receiver - Black</td>
<td>60-1215-22</td>
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<tr>
<td>DTP HDMI/230 D Rx Decora Receiver - White</td>
<td>60-1215-23</td>
<td></td>
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<tr>
<td>DTP HDMI/230 D Tx Decora Transmitter - Black</td>
<td>60-1215-12</td>
<td></td>
</tr>
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<td>DTP HDMI/230 D Tx Decora Transmitter - White</td>
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</tbody>
</table>

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