

# DTP R HWP 4K 231 D

DTP RECEIVER FOR  
HDMI – DECORATOR-STYLE  
WALLPLATE

**DTP**  
SYSTEMS

**4K UHD**



- ▶ Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- ▶ Supports computer and video resolutions up to 4K
- ▶ HDCP 2.2 compliant
- ▶ Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through
- ▶ Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- ▶ Supports EDID and HDCP transmission
- ▶ Bidirectional RS-232 and IR pass-through for AV device control
- ▶ Remote power capability
- ▶ Compatible with all DTP® 230 Series transmitters and DTP-enabled products
- ▶ Highly reliable, energy-efficient external universal power supply included with Tx models

The Extron DTP R HWP 4K 231 D is a single-gang decorator-style receiver that works with Extron DTP®-enabled products to send HDMI, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a shielded CATx cable. It is designed for efficient use at display locations in environments offering limited space. The HDCP-compliant receiver features a convenient one-gang form factor that offers maximum placement flexibility.



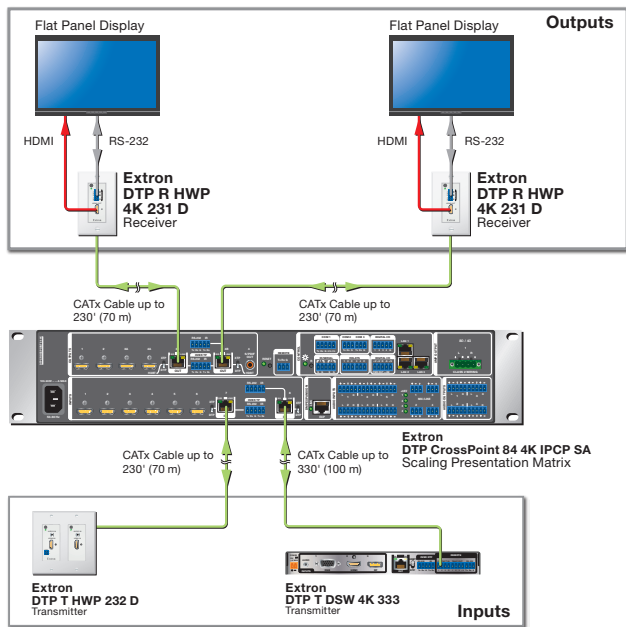
**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DTP R HWP 4K 231 D** is a single-gang decorator-style receiver that works with Extron DTP-enabled products to send HDMI, audio, and bidirectional RS-232 and IR signals up to 230 feet (70 meters) over a shielded CATx cable. The one-gang form factor provides maximum space efficiency in wall mount, floor box, and furniture mount applications. The DTP R HWP 4K 231 D supports video signals at resolutions up to 4K. It also accepts analog stereo audio signals from a DTP-enabled product over the same shielded twisted pair cable. The wall-mountable design and remote power capability of the DTP R HWP 4K 231 D provide the convenience of placing output connections precisely where they are needed.

The DTP R HWP 4K 231 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 receiver can be remotely powered over the shielded twisted pair cable by a DTP-enabled product. The DTP R HWP 4K 231 D can be integrated with an Extron DTP CrossPoint® Presentation Matrix Switcher, or other DTP-enabled products to support sources at remote locations.

## APPLICATION DIAGRAM



## SPECIFICATIONS

### TRUE 4K SPECIFICATION

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	8 bit
<b>Frame rate<sup>1</sup></b>	24, 25, 30, 50, or 60 fps	
<b>Chroma sampling<sup>1</sup></b>	4:4:4, 4:2:2, or 4:2:0	
<b>Color bit depth<sup>1</sup></b>	8 bits per color	
<b>Signal type</b>	HDMI 1.4, HDCP 2.2	
<b>Max. video data rate</b>	10.2 Gbps (3.4 Gbps per color)	
<b>NOTE:</b> <sup>1</sup> Subject to the maximum data rate limit. Use our calculator at <a href="http://www.extron.com/4Kdata">www.extron.com/4Kdata</a> to determine video parameters supported by this data rate.		

### VIDEO

<b>HDMI input</b>	
Maximum pixel clock	300 MHz
Resolution range	Up to 2560x1600* @ 60Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling (*Reduced blanking)

### VIDEO INPUT

<b>Connectors</b>	1 female HDMI, type A
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### INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

<b>Signal type</b>	1 DTP 230 input
<b>Connectors</b>	1 female RJ-45 jack
<b>DTP signal</b>	
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
<b>NOTE:</b> Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.	

### AUDIO OUTPUT

<b>Number/signal type</b>	1 stereo, balanced/unbalanced
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### GENERAL

<b>Power supply</b>	External
	Input: 100-240 VAC, 50-60 Hz
	Output: 12 VDC, 1 A, 12 watts
<b>Enclosure dimensions</b>	
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)
<b>Regulatory compliance</b>	
Safety	c-UL, UL
EMI/EMC	CE**, C-tick, FCC Class A**, ICES, VCCI
Environmental	Complies with the appropriate requirements of RoHS, WEEE
<b>NOTE:</b> **CE and FCC testing is conducted with STP cable.	

Model	Version Description	Part number
DTP R HWP 4K 231 D	HDMI Decorator-Style Rx, Black - 230 feet (70 m)	60-1531-12
DTP R HWP 4K 231 D	HDMI Decorator-Style Rx, White - 230 feet (70 m)	60-1551-13

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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