

## Specifications

### HD CTL 100

#### TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		
4096 x 2160 at 30 Hz		12 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	12 bit
3840 x 2160 at 60 Hz		

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, 10, or 12 bits per color  
 Signal type ..... HDMI 2.0  
 Max. video data rate ..... 18 Gbps (6 Gbps per color)

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

#### Control – IR/serial control port

IR/S control port ..... (1) 3.5 mm captive screw connector, 2 pole, for unidirectional (transmit only) RS-232 and IR control  
 IR control ..... TTL level (0 to 5 V) modulated infrared control from 30 kHz to 60 kHz  
 Serial control ..... ±5 V RS-232 control  
 Baud rate and protocol (RS-232) ... 9600 (default), 19200, 38400, 57600, or 115,200 baud  
 8 (default) or 7 data bits  
 1 stop bit  
 No parity (default), or even or odd parity

#### Control – CEC

HDMI Connector ..... 1 female HDMI, type A  
 CEC control via pin 13

#### Control – Digital inputs and outputs

Number/type ..... 4 digital inputs/outputs (configurable)  
 Connector ..... (2) 3.5 mm captive screw connectors, 3 pole  
 Digital inputs/outputs  
 Input voltage range ..... 0 to 24 VDC  
 Input impedance ..... 10K ohms  
 Programmable pullup ..... 1K ohms to +5 VDC  
 Threshold low to high ..... >2.0 VDC  
 Threshold high to low ..... <0.8 VDC

# Specification • HD CTL 100 (Continued)

## +V output

+24 V output port .....	(1) 3.5 mm captive screw connector, 2 pole
Output .....	+24 VDC, 50 mA

## Communication – configuration port

USB configuration port.....	1 female USB mini B, front panel
USB standards .....	USB 2.0, low speed
Program control.....	Extron HD CTL 100 Configuration Program for Windows® Extron Simple Instruction Set (SIS™)

## Video

HDMI input	
Connector .....	1 female HDMI, type A
Horizontal frequency.....	15 kHz to 270 kHz (for resolutions up to 18 Gbps)
Vertical frequency .....	24 Hz to 240 Hz (for resolutions up to 18 Gbps)
HDMI output	
Connector .....	1 female HDMI, type A

## General

Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts
Power consumption	
Device .....	2.7 watts
Device and power supply .....	3.5 watts
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 .....	4.2 BTU/hr
Device and power supply .....	7.0 BTU/hr
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf
Furniture mount.....	Yes, with optional under-desk mounting kit
Enclosure type .....	Metal
Enclosure dimensions .....	1.0" H x 4.3" (quarter rack) W x 3.0" D (25 mm H x 109 mm W x 76 mm D)
Product weight .....	1.0 lbs (0.5 kg)
Regulatory compliance.....	CE, c-UL, UL, KC, PSE, RoHs, and WEEE
Product 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 weights and dimensions are available at [www.extron.com](http://www.extron.com).

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