

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	
3840 x 2160 at 60 Hz		

Frame rate ¹	24, 25, 30, 50, or 60 fps
Chroma sampling ¹	4:4:4, 4:2:2, or 4:2:0
Color bit depth ¹	8, 10, or 12 bits per color
Signal type	HDMI 2.0
Max. video data rate	18 Gbps (6 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator (<https://www.extron.com/product/videotools.aspx>) 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
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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	0-24 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	1 female HDMI, type A
HDMI output	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, 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.

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