

Specifications

HAE 100 4K PLUS

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 rate¹ 24, 25, 30, 50, or 60 fps
 Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0
 Color bit depth¹ 8, 10, or 12 bits per color
 Signal type HDMI 2.0b, HDCP 2.3
 Max. video data rate 18.0 Gbps (6 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.

Video

HDMI Input
 Maximum data rate 18 Gbps (6 Gbps per color)
 Maximum pixel clock 600 MHz
 Resolution range 4K (4096x2160) @ 60 Hz, UHD (3840x2160) @ 60 Hz
 Color bit depth 8, 10, or 12 bits – subject to the maximum data rate
 Formats RGB and YCbCr digital video
 Standards HDMI 2.0, DVI 1.0, HDCP 2.3

Video input

Number/signal type 1 HDMI (or single link DVI-D, with appropriate DVI-HDMI adapters)
 Connectors 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

Video output

Number/signal type 1 HDMI (or single link DVI-D, with appropriate DVI-HDMI adapters)
 Connectors 1 female HDMI type A

Audio

S/N >90 dB, balanced, at maximum input

Audio input

Number/signal type.....	1 embedded digital audio from HDMI
Embedded audio formats.....	LPCM 2.0, Dolby Digital 2.0, Dolby Digital 2.0 Surround, Dolby Digital 5.1, Dolby Digital EX, DTS Digital Surround 5.1, DTS ES Matrix 6.1, DTS ES Discrete 6.1
Connector.....	1 female HDMI type A

Audio output – analog

Number/signal type.....	1 stereo balanced/unbalanced
Connector.....	(1) 3.5 mm captive screw connector, 5-pole
Impedance.....	50 ohms unbalanced, 100 ohms balanced
Maximum Level.....	>+12 dBV balanced, +6 dBV unbalanced

Audio output – S/PDIF

Number/signal type.....	1 S/PDIF
Connector.....	1 female RCA jack (tip, ring)
Impedance.....	75 ohms

Control/remote

USB control port.....	1 front panel female mini USB, type B
USB standards.....	USB 2.0, high speed
Program control.....	Extron Simple Instruction Set (SIS™), Extron PCS

General

Power supply.....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
Device.....	4.0 watts
Device and power supply.....	4.7 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.....	12.6 BTU/Hr
Device and power supply.....	14.8 BTU/Hr
Enclosure type.....	Metal
Enclosure dimensions.....	1.0" H x 4.3" W x 6.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors)
Product weight.....	0.57 lbs. (0.26 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance.....	CE, c-UL, UL, C-tick, FCC Class A, ICES, VCCI Complies with appropriate requirements of RoHS and WEEE
Warranty.....	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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

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