

Specifications

HAE 100 4K

TRUE 4K specifications

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096 x 2160 at 30 Hz	4:4:4	8 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 bits per color
Signal type	HDMI 1.4, HDCP 1.4
Max. video data rate	10.2 Gbps (3.4 Gbps per color)

NOTE: ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdata to determine video parameters supported by this data rate.

Video

HDMI Input

Maximum data rate	10.2 Gbps (3.4 Gbps per color)
Maximum pixel clock	300 MHz
Resolution range	2560 x 1600 @ 60 Hz 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling
Color bit depth	8, 10, or 12 bits – subject to the maximum data rate
Formats	RGB and YCbCr digital video
Standards	HDMI 1.4, DVI 1.0, HDCP 1.4

Video input

Number/signal type	1 HDMI (or single link DVI-D, with appropriate DVI-HDMI adapters)
Connectors	1 female HDMI type A
Input cable length	
4K/UHD @ 30 Hz	Up to 50' (15.0 m)
1080p or	
1920x1200 @ 60 Hz	Up to 100' (30.0 m)
720p @ 60 Hz	Up to 150' (45.0 m)

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
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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/mono 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.....	4.6 watts
Device and power supply.....	6.2 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.....	14.4 BTU/Hr
Device and power supply.....	19.7 BTU/Hr
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf
Furniture mount.....	Yes, with optional mini under-desk mounting kit
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.....	TBD
Shipping weight.....	TBD
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
EMI/EMC.....	CE, C-tick, FCC Class A, ICES, VCCI
Warranty.....	3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

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