

Specifications

ISS 608

TRUE 4K specification

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		10 bit
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	10 bit
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 or 10 bits per color
Signal type	DVI v1.0, HDMI v1.4 and v2.0, DisplayPort v1.2, HDCP v1.4 and v2.3
Max. video data rate ¹	
HDMI	18 Gbps (6 Gbps per color)
DisplayPort	21.6 Gbps (5.4 Gbps per lane)

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

Video input

Number/signal type	6 HDMI/DVI (HDCP compliant) 2 DisplayPort (HDCP compliant)
Connectors	6 female HDMI Type A 2 female DisplayPort
Horizontal frequency	15 Hz to 150 Hz
Vertical frequency	24 Hz to 120 Hz
Resolution range	640x480 to 4096x2160, 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, 2K, 4K 3840x2160 (up to 60 Hz) to 4096x2160 (up to 60 Hz)
Standards	DVI 1.0, HDMI 1.4 and 2.0, HDCP 1.4 and 2.3, DisplayPort 1.2

Video processing

Digital sampling	8, 10 bits per color maximum; 600 MHz pixel clock
Colors	1 billion (10-bit 4:4:4 processing)

Video output

Number/signal type	2 HDMI/DVI (HDCP compliant)
Connectors	2 female HDMI Type A
Video output power for active cables	2.2 W total for all HDMI ports, 1.1 W per HDMI port max

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Scaled resolution	640x480 ⁸ , 800x600 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1400x1050 ⁸ , 1600x900 ⁸ , 1600x1200 ⁸ , 1920x1200 ⁸ , 2048x1200 ⁸ , 2048x1536 ⁸ , 2560x1080 ⁸ , 2560x1440 ⁸ , 2560x1600 ⁸ , 3840x2160 ^{1,2,3,4,5,6,7,8} , 4096x2160 ^{1,2,3,4,5,6,7,8} 480p ^{7,8} , 576p ⁶ , 720p ^{3,4,5,6,7,8} , 1080i ^{6,7,8} , 1080p ^{1,2,3,4,5,6,7,8} , 2K ^{1,2,3,4,5,6,7,8} Custom 1 through 10 ¹ = 23.98 Hz, ² = 24 Hz, ³ = 25 Hz, ⁴ = 29.97 Hz, ⁵ = 30 Hz, ⁶ = 50 Hz, ⁷ = 59.94 Hz, ⁸ = 60 Hz
Standards	DVI 1.0, HDMI 1.4 and 2.0, HDCP 1.4 and 2.3

Audio

Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	<0.1% @ 1 kHz, 20 kHz bandwidth at nominal level
S/N	>90 dB at maximum output (unweighted)
Stereo channel separation.....	>80 dB @ 1 kHz
Supported formats	
Analog de-embedding.....	LPCM-2Ch
HDMI pass-through.....	LPCM up to 7.2/24-bit/192 kHz, Dolby TrueHD, Dolby Digital Plus, Dolby Digital EX, Dolby Digital 5.1, Dolby Digital 2/0 Surround, Dolby Digital 2/0, Dolby Atmos 7.2, DTS-HD, DTS ES Discrete 6.1, DTS ES Matrix 6.1, DTS Digital Surround 5.1, DTS 2-channel

Audio input

Number/signal type.....	6 HDMI embedded audio 2 DisplayPort embedded audio
Connectors.....	6 female HDMI 2 female DisplayPort

Audio output

Number/signal type.....	Stereo/mono, balanced/unbalanced 2 analog (1 program, 1 preview) 2 HDMI embedded
Connectors.....	(2) 3.5 mm captive screw connector, 5 pole 2 HDMI female Type A

Communications – switcher

Serial control port.....	1 bidirectional RS-232, 3.5 mm, 3 pole captive screw connector (rear panel)
Baud rate and protocol	9600, 8 data bits, 1 stop bit, no parity
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = GND
Ethernet control port.....	1 RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet
Ethernet default settings	Link speed and duplex level = autodetected IP address = 192.168.254.254 Subnet mask = 255.255.0.0 Gateway = 0.0.0.0 DHCP = off
Program control.....	Extron control/configuration program for Windows® Extron Simple Instruction Set (SIS™) Microsoft® Internet Explorer®

General

Power supply.....	Internal Input: 100-240 VAC, 50-60 Hz
Power consumption.....	59.1 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.....	2 fans, air flows right to left, as viewed from front panel
Thermal dissipation.....	176 BTU/hr

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Rack mount	Yes
Enclosure type	Metal
Enclosure dimensions	3.5" H x 17.5" W x 12.75" D (2U high, full rack wide) (8.9 cm H x 44.4 cm W x 32.4 cm D) (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	TBD lbs (TBD kg)
Regulatory compliance.....	CE, c-UL, C-Tick, FCC Class A, ICES, UL, VCCI
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: Specifications are subject to change without notice.

NOTE: All nominal levels are at $\pm 10\%$.

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

4903-D3