

Extron

Specifications

DA HD 8K L Series

TRUE 8K specification

Max. 8K Capabilities			
Resolution	Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
7680x4320	60 Hz	4:2:0	10 bit
	30 Hz	4:4:4	
Max. 4K and 5K Capabilities			
Resolution and Refresh Rate		Chroma Sampling	Max. Bit Depth per Color
5120x2880	60 Hz	4:4:4	12 bit
5120x1440			
4096x2160			
3840x2160			
3840x2160	120 Hz		10 bit

Frame rate¹ 24, 25, 30, 50, 60, or 120 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 2.1, HDCP 2.3

Max. video data rate 40.1 Gbps

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

Video

Maximum data rate 40.1 Gbps

Maximum pixel clock 1.2 GHz

Resolution range

VESA 640x480 to 7680x4320

SMPTE Up to 1080p @ 240 Hz or 8K @ 60 Hz (4:2:0 chroma sampling)

Ultra Wide & 5K 2560x1080, 3440x1440, 3840x1080, 3840x1440, 3840x1600, 5120x1080, 5120x1440, 5120x2160, 5120x2560, 5120x2880

Color bit depth 8, 10, or 12 bits — subject to the max data rate

Formats RGB and YCbCr digital video

Standards DVI 1.0*, HDMI 2.1, HDCP 1.x, HDCP 2.3

HDR HDR10, HDR10+, and Dolby Vision

NOTE: *Appropriate DVI-D to HDMI cables or adapters are required for DVI signal input/output.

NOTE: Extron strongly recommends compatibility testing while designing, and before installing any 3D or HDR (high dynamic range) system. There are several unique 3D and HDR formats in use by source devices and display manufacturers. The level of 3D and HDR product support is governed by pixel clock, signal format, and communication between source and sink devices. Please contact an Extron Application Engineer for more information.

Specifications • DA HD 8K L Series (Continued)

Video input

Number/signal type	1 single link HDMI (or DVI-D*)
Connectors	1 female 19-pin HDMI type A
Input cable length	Up to 15 feet (4.0 m)
Horizontal frequency	15 kHz to 270 kHz for resolutions up to 40.1 Gbps
Vertical frequency	24 Hz to 240 Hz for resolutions up to 40.1 Gbps
EDID emulation	128 - 512 byte EDID support (1 - 4 blocks)

Video output

DA2 HD 8K L

Number/signal type	2 single link HDMI (or DVI-D*)
Connectors	2 female 19-pin HDMI type A
Power for active cables	1.25 W total power for HDMI port
Peripheral device power	250 mA per HDMI output

DA4 HD 8K L

Number/signal type	4 single link HDMI (or DVI-D*)
Connectors	4 female 19-pin HDMI type A
Power for active cables	1.25 W total power for HDMI port
Peripheral device power	250 mA per HDMI output

DA6 HD 8K L

Number/signal type	6 single link HDMI (or DVI-D*)
Connectors	6 female 19-pin HDMI type A
Power for active cables	1.25 W total power for HDMI port
Peripheral device power	250 mA per HDMI output

Audio input

Number/signal type	1 digital embedded audio on HDMI
Connectors	1 female 19-pin HDMI type A
HDMI pass-through	LPCM up to 7.1/24-bit/192 kHz, Dolby® Digital EX, Dolby Digital Plus™, Dolby Digital 5.1, Dolby Digital 2.0 Surround, Dolby Digital 2.0, Dolby TrueHD, Dolby Atmos™, DTS-HD Master Audio, DTS-X, DTS-HD, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS-Digital Surround 5.1, DTS 2-Channel

Audio output

DA2 HD 8K L

Number/signal type	2 digital embedded audio on HDMI
Connectors	2 female HDMI

DA4 HD 8K L

Number/signal type	4 digital embedded audio on HDMI
Connectors	4 female HDMI

DA6 HD 8K L

Number/signal type	6 digital embedded audio on HDMI
Connectors	6 female HDMI

Communications — unit

USB control port	1 female USB-C on front panel
USB standards	USB 2.0 high speed
Serial control port	1 RS-232, rear panel 3.5 mm captive screw connector, 3-pole (DA4 and DA6 only)
Baud rate	9600
Protocols	Data bits: 7 or 8 (default) Stop bits: 1 (default) or 2 Parity: odd, even, or no (default)
Serial control pin configuration	1 = Tx, 2 = Rx, 3 = Gnd

Specifications • DA HD 8K L Series (Continued)

LAN Ethernet port	1 RJ-45 connector
Ethernet data rate	10/100Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, DHCP, DNS, HTTP, HTTPS, ICMP (ping), IEEE 802.1X, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, Telnet, UDP/IP
Program control	Extron Simple Instruction Set (SIS™), Extron PCS

General

Power supply	External
	Input: 100-240 VAC, 50-60 Hz
	Output: DA2 - 12 VDC, 1.5 A, 18 watts
	DA4 and DA6 - 12 VDC, 2.0 A, 18 watts
Power consumption	
DA2 HD 8K L	
Device	7.4 watts
Device and power supply	9.2 watts
DA4 HD 8K L	
Device	16.3 watts
Device and power supply	19.6 watts
DA6 HD 8K L	
Device	21.5 watts
Device and power supply	24.4 watts
Ambient temperature/humidity	Storage: -40 to +158°F (-40 to +70°C) / 10% to 90%, noncondensing
	Operating: +32 to +104°F (0 to +40°C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Thermal dissipation	
DA2 HD 8K L	29.6 BTU/Hr
DA4 HD 8K L	38.5 BTU/Hr
DA6 HD 8K L	47.8 BTU/Hr
Mounting	
Rack mount	Yes, with optional rack shelf kit
Enclosure type	Metal
Enclosure dimensions	
DA2 HD 8K L	1.00" H x 4.30" W x 6.00" D (1 inch high, quarter rack wide)
	(25 mm H x 109 mm W x 152 mm D)
DA4 HD 8K L	1.00" H x 8.75" W x 6.00" D (1 inch high, quarter rack wide)
	(25 mm H x 222 mm W x 152 mm D)
DA6 HD 8K L	1.00" H x 8.75" W x 6.00" D (1 inch high, quarter rack wide)
	(25 mm H x 222 mm W x 152 mm D)
Product weight	
DA2 HD 8K L	0.53 lbs (0.24 kg)
DA4 HD 8K L	2.95 lbs (1.34 kg)
DA6 HD 8K L	3.05 lbs (1.38 kg)
Regulatory compliance	CE, c-UL, UL, C-Tick, FCC Class A, ICES, VCCI
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.