

## Specifications

### DA HD 4K PLUS Series

#### 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		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 rate<sup>1</sup> ..... 24, 25, 30, 50, or 60 fps  
 Chroma sampling<sup>1</sup> ..... 4:4:4, 4:2:2, or 4:2:0  
 Color bit depth<sup>1</sup> ..... 8, 10, or 12 bits per color  
 Signal type ..... HDMI 2.0b, HDCP 1.4 and 2.3  
 Max. video data rate ..... 18.0 Gbps (6 Gbps per color)

**NOTE:** <sup>1</sup>Subject 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 ..... 18.0 Gbps  
 Maximum pixel clock ..... 600 MHz  
 Resolution range ..... Up to 4K (4096x2160) @ 60 Hz, UHD (3840x2160) @ 60 Hz, 1920x1200 or 1080p @ 60 Hz  
 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 2.0b, HDCP 2.3, HDCP 1.x  
 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.

# Specification • DA HD 4K PLUS 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 m) with a 600 MHz signal (100 feet (30 m) with 165 MHz)
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	
DA2 HD 4K PLUS .....	2 single link HDMI (or DVI-D*)
DA4 HD 4K PLUS .....	4 single link HDMI (or DVI-D*)
DA6 HD 4K PLUS .....	6 single link HDMI (or DVI-D*)
Connectors	
DA2 HD 4K PLUS .....	2 female 19-pin HDMI type A
DA4 HD 4K PLUS .....	4 female 19-pin HDMI type A
DA6 HD 4K PLUS .....	6 female 19-pin HDMI type A
Video output power for active cables	
DA2 HD 4K PLUS .....	2.2 W total power for all HDMI ports, 1.1 W per HDMI port max
DA4 HD 4K PLUS .....	4.3 W total power for all HDMI ports, 1.1 W per HDMI port max
DA6 HD 4K PLUS .....	6.6 W total power for all HDMI ports, 1.1 W per HDMI port max

## Audio input

Number/signal type .....	1 HDMI, embedded
Connector .....	1 female HDMI type A
HDMI pass-through .....	LPCM up to 7.1/24-bit/192 kHz, Dolby Atmos, Dolby TrueHD, and Dolby legacy formats DTS:X, DTS-HD Master Audio, DTS 96/24, and DTS legacy formats

## Audio output

Number/signal type	
DA2 HD 4K PLUS .....	2 HDMI, embedded
DA4 HD 4K PLUS .....	4 HDMI, embedded
DA6 HD 4K PLUS .....	6 HDMI, embedded
Connectors	
DA2 HD 4K PLUS .....	2 Female 19-pin HDMI type A
DA4 HD 4K PLUS .....	4 Female 19-pin HDMI type A
DA6 HD 4K PLUS .....	6 Female 19-pin HDMI type A

## Communications

Serial control port.....	RS-232, 3.5 mm, 3-pole captive screw connector
Baud rate and protocol .....	9600 baud, 8 data bits, 1 stop bit, non-parity
Serial control pin configuration .....	1 = Tx, 2 = Rx, 3 = GND
USB control port.....	1 front panel, female, mini USB B
USB standards .....	USB 2.0
Program control.....	Extron Simple Instruction Set (SIS™)

## General

Power	
DA2 HD 4K PLUS .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 0.5 A, 6 watts
DA4 HD 4K PLUS and DA6 HD 4K PLUS .....	Internal Input: 100-240 VAC, 50-60 Hz

## Specification • DA HD 4K PLUS Series (Continued)

Power consumption	
DA2 HD 4K PLUS	
Device .....	3.6 watts
Device and power supply...	4.8 watts
DA4 HD 4K PLUS .....	8.6 watts
DA6 HD 4K PLUS .....	10.6 watts
Ambient 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	
DA2 HD 4K PLUS	
Device .....	10.2 BTU/hr
Device and power supply...	14.3 BTU/hr
DA4 HD 4K PLUS .....	25.5 BTU/hr
DA6 HD 4K PLUS .....	30.5 BTU/hr
Mounting	
Rack mount.....	Yes, with optional rack shelf kit
Enclosure type .....	Metal
Enclosure dimensions	
DA2 HD 4K PLUS .....	1.00" H x 4.30" W x 3.00" D (one quarter rack wide) 25 mm H x 109 mm W x 76 mm D (Depth excludes connectors)
DA4 HD 4K PLUS and DA6 HD 4K PLUS .....	1.75" H x 8.75" W x 6.00" D (1U high, half rack wide) 44 mm H x 222 mm W x 152 mm D (Depth excludes connectors)
Product weight	
DA2 HD 4K PLUS .....	0.35 lbs (0.2 kg)
DA4 HD 4K PLUS and DA6 HD 4K PLUS .....	1.6 lbs (0.7 kg)
Regulatory compliance.....	CE, c-UL, UL, C-Tick, FCC Class A, ICES, VCCI, AS/NZS, RoHS, 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](http://www.extron.com).

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