

## Specifications

### SW 2/4 HD 4K

#### TRUE 4K specification

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<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 bits per color  
 Signal type ..... HDMI 1.4, HDCP 1.4  
 Max. video data rate ..... 10.2 Gbps (3.4 Gbps per color)

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

#### Video

Maximum data rate ..... 10.2 Gbps (3.4 Gbps per color)  
 Maximum pixel clock ..... 300 MHz (600 MHz for 4K rates with 4:2:0 chroma subsampling)  
 Resolution ..... Up to 1920 x 1200 or 1080p @ 60 Hz, 12-bit color  
 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz  
 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling  
 Formats ..... RGB and YCbCr digital video  
 Standards ..... DVI 1.0, HDMI 1.4, HDCP 1.4

**NOTE:** The SW HD 4K Series switchers support TMDS data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D\*\*, HD lossless audio, and other HDMI specification features.

\*\*Extron strongly recommends compatibility testing while designing and before installing any 3D system. There are several unique 3D formats in use by source devices and display manufacturers. The level of 3D 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.

#### Video input

Number/signal type ..... 2 or 4 (depending on model) single link HDMI (or DVI-D\*)  
 Connectors ..... 2 or 4 female HDMI

#### Video output

Number/signal type ..... 1 single link HDMI (or DVI-D\*)  
 Connectors ..... 1 female HDMI

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

# Specification • SW 2/4 HD 4K (Continued)

## Communication – Switcher

Serial control port.....	1 RS-232, 3.5 mm, 3 pole captive screw connector
Pin configuration.....	1 = Tx, 2 = Rx, 3 = GND
Baud rate and protocol.....	9600 baud, 8 data bits, 1 stop bit, no parity
Auto-input switching .....	(1) 3.5 mm, 2 pole captive screw connector
Pin configuration.....	Pins 1 and 2 of captive screw connector shorted together enable auto-input switching
Contact closure	
SW2 HD 4K.....	(2) 3.5 mm captive screw, 3 pole (shared with Tally output)
SW4 HD 4K.....	(4) 3.5 mm captive screw, 3 pole (shared with Tally output)
Tally output	
SW2 HD 4K.....	(2) 3.5 mm captive screw, 3 pole (shared with Contact closure)
SW4 HD 4K.....	(4) 3.5 mm captive screw, 3 pole (shared with Contact closure)
Tally output power.....	(1) 3.5 mm captive screw, 3 pole for +5 VDC, 0.2 A
IR controller module.....	IR 102 remote control (optional) 30' maximum, 40 degrees off axis
Program control.....	Extron Simple Instruction Set™ (SIS™)

## General

Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
Power consumption	
Device .....	6 watts, 12 VDC
Device and power supply .....	8 watts, 12 VDC
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 .....	19.8 BTU/hr
Device and power supply .....	24.4 BTU/hr
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf
Furniture mount.....	Yes, with optional under-desk mounting kit or through-desk mounting kit
Enclosure type .....	Metal
Enclosure dimensions .....	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight .....	0.5 lb (0.3 kg)
Regulatory compliance.....	CE, c-UL KC-mark, UL, CE**, C-tick, FCC Class A**, ICES, VCCI, Complies with the appropriate requirements of 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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