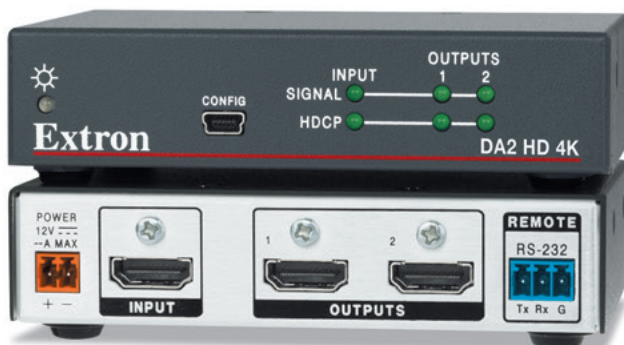


# DA2 HD 4K

## 4K HDMI DISTRIBUTION AMPLIFIER



- ▶ Distributes HDMI video and embedded multi-channel digital audio
- ▶ Supports computer and video resolutions up to 4K
- ▶ EDID Minder® automatically manages EDID communication between connected devices
- ▶ Key Minder® continuously verifies HDCP compliance
- ▶ Automatic color bit depth management
- ▶ Automatic input cable equalization to 50 feet when used with Extron HDMI Pro Series cable
- ▶ Selectable output muting via RS-232 or USB port
- ▶ HDCP authentication and signal presence LED indicators
- ▶ Provides +5 VDC, 250 mA power on each output for external peripheral devices
- ▶ Easy setup and commissioning with Extron's PCS – Product Configuration Software



The Extron DA2 HD 4K is a one input, two output HDMI distribution amplifier for video signals at resolutions up to 4K. It features EDID Minder®, Key Minder®, and automatic color bit depth management to ensure reliable operation for applications that require the distribution of a 4K HDMI source signal to two displays.



**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

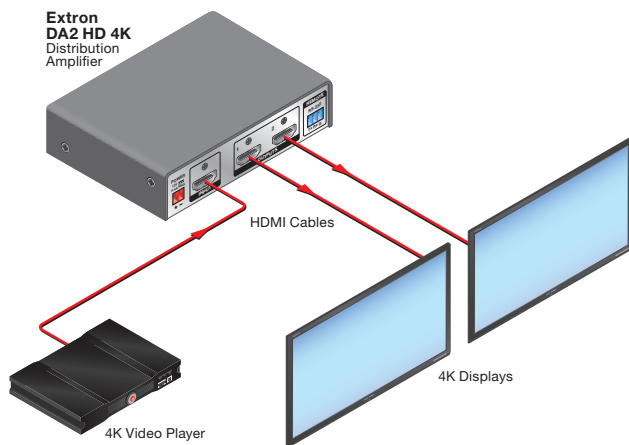
## DESCRIPTION

The Extron **DA2 HD 4K** is a one input, two output HDMI distribution amplifier for video signals at resolutions up to 4K. It supports data rates up to 10.2 Gbps, 3D, Lip Sync, and HD lossless audio formats, along with integrator-friendly features such as automatic input cable equalization, automatic color bit depth management, and selectable output muting. The DA2 HD 4K also features Extron EDID Minder and Key Minder technologies to maintain continuous EDID communication between connected devices and ensure simultaneous distribution of HDCP-encrypted source content. The DA2 HD 4K distribution amplifier is ideal for applications that require reliable distribution of a 4K HDMI source signal to two displays.

## KEY FEATURES

- ▶ Distributes HDMI video and embedded multi-channel digital audio signals
- ▶ Supports computer and video resolutions up to 4K
- ▶ Automatic input cable equalization to 50 feet when used with Extron HDMI Pro Series cable
- ▶ EDID Minder automatically manages EDID communication between connected devices
- ▶ Key Minder continuously verifies HDCP compliance
- ▶ HDCP compliant
- ▶ Automatic color bit depth management
- ▶ Selectable output muting via RS-232 or USB port

## APPLICATION DIAGRAM



## SPECIFICATIONS

TRUE 4K SPECIFICATION	
Resolution	4K (4096x2160) or UHD (3840x2160) Max 30 fps at 4:4:4 color sampling with 8 bits per color
Frame Rate <sup>1</sup>	24, 25, 30, 50, or 60 fps
Color 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 / HDCP
Max Video Data Rate	10.2 Gbps (3.4 Gbps per color)
<b>NOTE1:</b> Subject to the maximum data rate limit. Use our calculator to find out max signal data rate.	

VIDEO		
<b>NOTE:</b> *Appropriate DVI-D to HDMI cables or adapters are required for DVI signal input/output.		
Maximum data rate	10.2 Gbps (3.4 Gbps per color)	
Maximum pixel clock	300 MHz	
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz, 12-bit color, 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz	
Formats	RGB and YCbCr digital video	
Standards	DVI 1.0, HDMI 1.4, HDCP 1.4	
VIDEO INPUT		
Number/signal type	1 single link HDMI (or DVI-D*)	
Connectors	1 female 19-pin HDMI type A	
VIDEO OUTPUT		
Number/signal type	2 single link HDMI (or DVI-D*)	
Connectors	2 female 19-pin HDMI type A	
CONTROL/REMOTE		
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, low speed	
Program control	Extron Simple Instruction Set (SIS™)	
GENERAL		
Power	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts	
Power consumption	Device: 3.3 watts Device and power supply: 4.3 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	
Mounting	Rack mount: Yes, with optional rack shelf kit	
Enclosure dimensions	1.0" H x 4.3" W x 3.0" D (one quarter rack wide) 2.5 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors)	
Product weight	0.35 lbs (0.2 kg)	
Warranty	3 years parts and labor	
<b>NOTE:</b> All nominal levels are at ±10%.		
<b>Model</b>	<b>Version Description</b>	<b>Part number</b>
DA2 HD 4K	Two Output 4K HDMI	60-1480-01

For complete specifications, please go to [www.extron.com](http://www.extron.com)  
Specifications are subject to change without notice.

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