

# DSC DP-HD A

DISPLAYPORT TO HDMI SCALER  
WITH AUDIO DE-EMBEDDING

- ▶ DisplayPort to HDMI video scaling
- ▶ Accepts DisplayPort signals up to 3840x2160 @ 30 Hz
- ▶ Buffered DisplayPort input loop-through
- ▶ Advanced scaling engine with 30-bit processing and 1080i deinterlacing
- ▶ DisplayPort audio de-embedding
- ▶ Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K
- ▶ Aspect ratio control
- ▶ HDCP compliant
- ▶ EDID Minder®
- ▶ On-screen menus
- ▶ Internal video test patterns and audio pink noise generator
- ▶ USB and RS-232 control ports



The Extron DSC DP-HD A is a high performance scaler that converts DisplayPort signals to HDMI. It accepts DisplayPort video up to 3840x2160 @ 30 Hz with reduced blanking, and generates HDMI output rates up to 1920x1200, including HDTV 1080p/60 and 2K. The DSC DP-HD A is ideal for integrating high resolution DisplayPort signals from a PC workstation into an HDMI-based switching and distribution system.



**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DSC DP-HD A** is a high performance, HDCP-compliant scaler that converts DisplayPort signals to HDMI. It accepts DisplayPort video at resolutions up to 3840x2160 @ 30 Hz with reduced blanking, and offers high performance scaling with multiple output rates up to 1920x1200, including HDTV 1080p/60 and 2K. The DSC DP-HD A features advanced Extron video signal processing with 1080i deinterlacing and Deep Color processing for optimal image quality. It includes many integrator-friendly features such as auto-memory presets, on-screen display, test patterns, EDID Minder, stereo audio de-embedding, and a DisplayPort input loop-through, while the compact enclosure simplifies installation. The DSC DP-HD A is ideal for interfacing high resolution DisplayPort signals into AV systems with an HDMI switching and distribution infrastructure.

## FEATURES

- ▶ **DisplayPort to HDMI video scaling**
- ▶ **Accepts DisplayPort signals up to 3840x2160 @ 30 Hz**
- ▶ **Buffered DisplayPort input loop-through** – A buffered DisplayPort input loop-through provides an output signal to drive a local monitor.
- ▶ **Advanced scaling engine with 30-bit processing and 1080i deinterlacing**
- ▶ **DisplayPort audio de-embedding** – Embedded DisplayPort two-channel PCM audio can be extracted to the analog output.
- ▶ **Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K**
- ▶ **HDCP compliant**
- ▶ **EDID Minder automatically manages EDID communication between connected devices**
- ▶ **Supports DisplayPort data rates up to 10.8 Gbps**
- ▶ **Aspect ratio control**
- ▶ **Front panel LED indicators for signal format, presence, and power**
- ▶ **Auto-Image™ setup**
- ▶ **Auto Input Memory**
- ▶ **On-screen menus**
- ▶ **Internal video test patterns and audio pink noise generator**
- ▶ **RS-232 control port**
- ▶ **Front panel USB configuration port**
- ▶ **1U, half rack width metal enclosure**
- ▶ **Highly reliable, energy-efficient internal universal power supply**

## SPECIFICATIONS

VIDEO INPUT AND LOOP THROUGH		
Number/signal type	1 DisplayPort input 1 DisplayPort loop-through	
Connectors	1 female DisplayPort input 1 female DisplayPort loop-through	
Formats	RGB and YCbCr digital video	
Standards	DisplayPort 1.1a, HDCP	
VIDEO PROCESSING		
Maximum data rate	Up to 10.8 Gbps (2.7 Gbps per lane)	
Maximum pixel clock	268 MHz	
Color bit depth	12 bits for resolutions up to 1080p 10 bits for all resolutions above 1080p	
Colors	1.07 billion (10-bit processing)	
VIDEO OUTPUT		
Number/signal type	1 HDMI/DVI (HDCP compliant)	
Connectors	1 female HDMI type A	
Peripheral device power	250 mA per output	
AUDIO OUTPUT		
Number/signal type	1 DisplayPort — loop output embedded 1 HDMI, embedded 1 stereo, balanced or unbalanced (variable)	
Connectors	1 female DisplayPort 1 female HDMI type A (1) 3.5 mm captive screw, 5 pole	
Gain error	±0.5 dB, channel to channel	
Maximum level (Hi-Z)	>+21 dBu, balanced; >+15 dBu, unbalanced	
Output volume range	0 to -100 dB in 1 dB steps	
COMMUNICATION		
Pin configurations	1 = Tx, 2 = Rx, 3 = Gnd	
Serial control port	1 RS-232, 3-pole captive screw connector (rear panel)	
USB control port	1 female USB mini-B (front panel)	
GENERAL		
Power supply	Internal Input: 100-240 VAC, 50-60 Hz	
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 Furniture mount: Yes, with optional under-desk mounting kit	
Enclosure dimensions	1.65" H x 8.75" W x 8.5" D (1U high, half rack wide) (4.4 cm H x 22.2 cm W x 21.6 cm D) (Depth excludes connectors.)	
Regulatory compliance	Safety: CE, c-UL, UL EMI/EMC: CE, C-tick, FCC Class A, ICES, VCCI	
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>
DSC DP-HD A	DisplayPort to HDMI Scaler with Audio De-Embedding	60-1454-01

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

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