

# DSC 3G-HD A

3G-SDI TO HDMI SCALER WITH  
AUDIO EMBEDDING

- ▶ 3G-SDI, HD-SDI, and SDI to HDMI video scaling
- ▶ Accepts 3G-SDI/HD-SDI/SDI signals up to 2.97 Gbps
- ▶ Advanced scaling engine with 30-bit processing and 1080i deinterlacing
- ▶ HDMI audio embedding
- ▶ Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K
- ▶ Input equalization and reclocking on buffered loop-through output
- ▶ USB and RS-232 control ports



The Extron DSC 3G-HD A is a high performance scaler that converts incoming 3G-SDI, HD-SDI, and SDI video signals to HDMI. It accepts SMPTE video resolutions and generates HDMI output rates up to 1920x1200, including HDTV 1080p/60 and 2K.



**Extron Electronics**  
INTERFACING, SWITCHING AND CONTROL

## DESCRIPTION

The Extron **DSC 3G-HD A** is a high performance 3G-SDI to HDMI scaler that converts 3G-SDI, HD-SDI, and SDI signals to HDMI. It accepts and scales SMPTE video resolutions from 480i and 576i up to 1080p/60 and 2K, and offers multiple output rates up to 1920x1200, including HDTV 1080p/60 and 2K. The DSC 3G-HD A features advanced Extron video signal processing with 1080i deinterlacing and Deep Color processing for optimal image quality. Stereo audio embedding and an SDI input loop-through facilitate integration in demanding professional environments, while the compact enclosure simplifies installation. The DSC 3G-HD A is ideal for applications requiring broadcast-type signals to be interfaced with professional or consumer-level equipment, including video editing and production, rental and staging, medical imaging, and large-scale presentations.

## FEATURES

- ▶ **Accepts 3G-SDI/HD-SDI/SDI signals up to 2.97 Gbps** – The DSC 3G-HD A accepts data rates from standard definition to HDTV 1080p/60 and 2K. It complies with SMPTE 259M, 292M, 424M, and ITU digital video standards.
- ▶ **Advanced scaling engine with 30-bit processing and 1080i deinterlacing**
- ▶ **HDMI audio embedding** – Analog stereo audio, or up to four pairs of AES audio channels from the SDI input can be embedded onto the HDMI output.
- ▶ **Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K**
- ▶ **Input equalization and reclocking on buffered loop-through**
- ▶ **Aspect ratio control** – The aspect ratio of the video output can be controlled by selecting a FILL mode, which provides a full screen output, or a FOLLOW mode, which preserves the original aspect ratio of the input signal.
- ▶ **Front panel LED indicators for signal format, presence, and power**
- ▶ **Auto-Image™ setup**
- ▶ **Auto Input Memory**
- ▶ **On-screen menus**
- ▶ **Output Standby Mode**
- ▶ **Power Save Mode**
- ▶ **Internal test patterns**
- ▶ **RS-232 control port**
- ▶ **Front panel USB configuration port**
- ▶ **1U, half rack width metal enclosure**
- ▶ **Includes LockIt® HDMI cable lacing bracket**
- ▶ **Internal universal power supply**

## SPECIFICATIONS

VIDEO INPUT		
Number/signal type	(1) 3G/HD/SD-SDI digital video	
Connectors	1 female BNC, 1 female BNC loop-through	
Operation standards	SMPTE 259M-C, 292M, 424M	
VIDEO OUTPUT		
Number/signal type	1 HDMI (TMDS)	
Connectors	1 female HDMI type A	
AUDIO INPUT		
Number/signal type	1 SDI embedded AES3 audio (SMPTE 272M, SMPTE 299M) 1 stereo/mono, balanced/unbalanced	
Connectors	1 female BNC (1) 5 pole captive screw	
AUDIO OUTPUT		
Number/signal type	1 HDMI, embedded audio (PCM)	
Connectors	1 female HDMI type A	
CONTROL/REMOTE		
Serial control port	1 RS-232, 3 pole captive screw connector	
USB control port	1 front panel female mini USB B	
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	1.66" H x 8.69" W x 8.5" D (1U high, half rack wide) (4.2 cm H x 22.1 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%.	
Model	Version Description	Part number
DSC 3G-HD A	3G-SDI to HDMI Scaler	60-1303-01

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

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