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DSC HD-3G A

HDMI TO 3G-SDI SCALER WITH AUDIO EMBEDDING

- **HDMI to 3G-SDI, HD-SDI, and SDI video scaling**
- **Accepts HDMI signals up to 1920x1200, 1080p/60, and 2K**
- **Two simultaneous 3G-SDI/HD-SDI/SDI outputs**
- **Selectable output rates from 480i and 576i to HDTV 1080p/60 and 2K**
- **Advanced scaling engine with 30-bit processing and 1080i deinterlacing**
- **SDI audio embedding**
- **Genlock input with loop-through**
- **USB and RS-232 control ports**



The Extron DSC HD-3G A is a high performance scaler that converts incoming HDMI video signals to 3G-SDI, HD-SDI, and SDI formats. It accepts input signals at computer and SMPTE video resolutions and generates 3G-SDI/HD-SDI/SDI signals up to 1080p/60 and 2K.

DESCRIPTION

The Extron **DSC HD-3G A** is a high performance HDMI to 3G-SDI scaler that converts HDMI video signals to 3G-SDI, HD-SDI, and SDI formats. It accepts computer and SMPTE video resolutions up to 1920x1200 and 2K, and offers multiple output rates from 480i and 576i up to HDTV 1080p/60 and 2K. The DSC HD-3G A features advanced Extron video signal processing with 1080i deinterlacing and Deep Color processing for optimal image quality. Dual SDI outputs, stereo audio embedding, and genlock facilitate integration in demanding professional environments, while the compact enclosure simplifies installation. The DSC HD-3G 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 HDMI signals up to 1920x1200, 1080p/60, and 2K** – The DSC HD-3G A accepts HDMI input signals at a variety of resolutions. Only unencrypted content can be sent to the output.
- **Two simultaneous 3G-SDI/HD-SDI/SDI outputs**
- **Advanced scaling engine with 30-bit processing and 1080i deinterlacing**
- **SDI audio embedding** – Analog stereo audio or HDMI multi-channel PCM audio can be embedded onto the SDI outputs.
- **Selectable output rates from 480i and 576i to HDTV 1080p/60 and 2K** – The DSC HD-3G A complies with SMPTE 259M, 292M, 424M, and ITU digital video standards.
- **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.
- **EDID Emulation**
- **Genlock input with loop-through**
- **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**
- **Automatic input cable equalization**
- **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 HDMI digital video
Connectors	1 female HDMI type A
VIDEO OUTPUT	
Number/signal type	(2) 3G/HD/SD-SDI — digital component video SMPTE 259M-C, 292M, 424M
Connectors	2 female BNC: SDI
EXTERNAL SYNC (GENLOCK)	
Number/signal type	1 female BNC for genlock input 1 female BNC for genlock loop output
Connectors	2 female BNC
AUDIO INPUT	
Number/signal type	1 stereo, de-embedded from HDMI (PCM only) 1 stereo/mono, balanced/unbalanced
Connectors	1 female HDMI type A (1) 5 pole captive screw
AUDIO OUTPUT	
Number/signal type	2 AES3, SDI embedded audio, up to 8 channels
Connectors	2 female BNC
CONTROL/REMOTE	
Serial control port	1 RS-232 rear panel 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, quarter 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

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part number
DSC HD-3G A	HDMI to 3G-SDI Scaler	60-1304-01

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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