Simply Better Connections

VC840

HDMI to 3G-SDI/Audio Converter - TAA Compliant

The VC840 HDMI to 3G/HD/SD SDI Converter provides a professional way to exchange high definition signals in real time. The SDI and HDMI signal conversion is 100% digital and guarantees no loss of quality for both the audio and video transmission. The VC840 provides 2 low jitter SDI outputs for dual display. The VC840 is the most dependable way to convert signals with confidence when monitoring in any post or broadcast application.

HIGH-DEFINITION MULTIMEDIA INTERFACE

Features

- Converts an HDMI input signal to 3G/HD/SD-SDI formats in real time while avoiding transformation loss for both audio and video signals
- Supports additional analog stereo audio and coaxial digital audio
- HDMI (Deep Color)
- LED indication of power and signal status
- Supports an SDI distance of up to 90M (3G-SDI), 150M (HDSDI) or 300M (SD-SDI) of RG6
- Supported SDI formats:
  • SD-SDI (SMPTE 259M, up to 270Mbps)
  • HD-SDI (SMPTE 292M, 296M, up to 1.485Gbps)
  • 3G-SDI (SMPTE 424M, 425M level A, up to 2.97Gbps)
- Video Support:
  525i@59.96, 625i@50
  720p@50/59.94/60
  1080i@50/59.94/60
  1080p@23.97/24/25/29.97/30/50/59.94/60
- Supports 8 audio channels @ 48kHz rate
- Offers 2 low-jitter SDI outputs for dual display
- Features automatic detection of 3G/HD/SD-SDI signals
- Reclocking SDI signals for cascading and thus longer transmission
- Locking power connector for secure communications
- Selectable EDID settings and EDID learning mode

Specification

Video Input	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω

Max. Distance	3m at 1920*1080@60 (4:4:4)
Video Output	
Interfaces	2 x BNC (Gold)
Impedance	75 Ω
Video	
Max. Data Rate	2.97 Gbps
Max. Pixel Clock	148.5 MHz
Supported Resolutions	NTSC@59.96Hz, PAL@50 Hz; 720p@50/59.94/60 Hz; 1080i@50/59.94/60 Hz; 1080p@23.97/24/25/29.97/30/50/59.94/60 Hz
Max. Distance	90m (3G-SDI); 150m (HD-SDI); 300m (SD-SDI)
Audio	
Output	Analog: 2 x RCA (Red/White) Digital: 1 x RCA (Yellow)
SDI Formats	SD-SDI (SMPTE 259M, up to 270 Mbps) HD-SDI (SMPTE 292M, 296M, up to 1.485 Gbps) 3G-SDI (SMPTE 424M, 425M level A, up to 2.97 Gbps)
EDID Settings	EDID Mode: Learn
Connectors	
Power	1 x DC Jack
Power Consumption	DC5V:3.225WBTU
Environmental	
Operating Temperature	0 - 40 ºC
Storage Temperature	-20 - 60 ºC
Humidity	20 - 90% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	0.29 kg (0.64 lb)
Dimensions (L x W x H)	12.20 x 10.70 x 3.04 cm (4.8 x 4.21 x 1.2 in.)
Carton Lot	5 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram

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