

1T-VS-647 SDI to HDMI Scaler with Audio converts a variety of SDI transmission rates and video resolutions into an HDMI signal. It also provides audio flexibility by outputting the audio embedded in the SDI signal to external connectors (both analog and digital formats) for distribution separate from the HDMI data stream. Bit rates to 2.970Gb/s allow processing of resolutions up to and including 1080p. SMPTE standards 425 A&B, 424M, 292M & 259M-C are supported and SMPTE 425M level B to level A Conversion is also standard. Automatic Input Video Format Detection and an On Screen Menu display make operation easy and intuitive. Additional capabilities include SDI loop-thru with equalization and reclocking which means the 1T-VS-647 SDI to HDMI Scaler doubles as an SDI repeater. Finally, as part of the SDI to HDMI scaling process, SDI timing is automatically converted to PC timing parameters.



Key Features of the 1T-VS-647

- Bitrates to 2.970Gb/s
- Resolutions up to and including 1080p
- De-embedded Audio – Analog and Digital Outputs
- SDI Equalized and Re-Clocked loop-thru
- Automatic Detection of Input Format
- SMPTE 425 A&B, 424M, 292M & 259M-C
- OSD (On Screen Display)
- Converts SDI HD Timing to PC Timing

Specifications

Video/Audio Input	
SDI SD, HD, 3G-SDI	Via 2x BNC (Input w/Loop-Thru)
Video Output	
HDMI v1.3	Via 1x HDMI Connector
Audio Outputs	
Digital Audio	Via 1x RCA, 48KHz
Analog Audio	Via 2x RCA, 48KHz
Transmission Bitrates	
SDI Inputs	2.970Gbit/s & 2.970/1.001 Gbit/s
Frequency Bandwidth	
MHz/Link	165MHz
SDI Loop Thru	
Signal Processing	Equalization & Re-Clocking
Cable Distance	SD=300M, HD=200M, 3G=100M
SDI Format Support	
SD	480i, 576i
HD	720p, 1080i, 1080p 24/25/30
3G-SDI	1080p 50/60
Signal Conversion	
SMPTE Standard	425M Level B to Level A
Max Output Resolution	1080p 60, WUXGA
De-Embedded Audio	
Output Signal Types	Digital Coaxial, Analog R&L
Channel Compliment	4 Groups, 2 per Group

Mechanical	
Size (H-W-D)	30x180x142mm (1.2x7x5.6")
Weight (Net)	460g (16.2oz)
Warranty	
Limited Warranty	3 Years Parts and Labor
Environmental	
Operating Temperature	0° to +40°C (+32° to +104°F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-20° to +60° C (-4° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Power Requirement	
External Power Supply	5VDC @2.6A
Regulatory Approvals	
Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
Accessories Included	
1x AC Power Adapter	US, UK or Euro
1x Operations Manual	
Optional Accessories	
Rack Mount Kit	RM-230

Panel Drawings

