

**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

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

<b>Mechanical</b>	
Size (H-W-D)	30x180x142mm (1.2x7x5.6")
Weight (Net)	460g (16.2oz)
<b>Warranty</b>	
Limited Warranty	3 Years Parts and Labor
<b>Environmental</b>	
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
<b>Power Requirement</b>	
External Power Supply	5VDC @2.6A
<b>Regulatory Approvals</b>	
Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x AC Power Adapter	US, UK or Euro
1x Operations Manual	
<b>Optional Accessories</b>	
Rack Mount Kit	RM-230

### Panel Drawings

