

**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

