

# 3G SDI to VGA Scaler Converter

Model No.: LM-SVG1

## User manual

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## **I. Introduction**

The SDI to VGA scaler converter allows SD-SDI, HD-SDI and 3G-SDI signals to be shown on VGA displays while ensuring high bit rates of 2.970 Gbit/s to give you fast signal transmission without any loss. For professionals this means that it is now easier to distribute and extend your 3G SDI signal while giving you the ability to display your work on VGA displays thanks to the built in this converter. Furthermore, thanks to the loop-through 3G-SDI design, users are able to enjoy both SDI and VGA at the same time.

## **II. Features**

1. Operation at 2.970Gbit/s, 2.970/1.001Gbit/s, 1.485Gbit/s, 1.485/1.001Gbit/s and 270Mbits/s
2. Equalized and re-clocked loop output
3. Auto video mode detection (3G/HD/SD)
4. Conversion from SMPTE 425M level B to Level A 1080p 50/59.94/60 4:2:2 10-bit

5. Connect with other units to extend your signal over long distances
6. Simultaneous display with SDI /VGA signals
7. Alternative audio output to analog 2CH
8. Supports signal transmission distances of up to 300M for SD signals, 200M for HD signals and 100M for 3G signals
9. **Note:** Cable tested with Belden 1694A. Operating distances may vary if used with another type of cable.

### **III. Package**

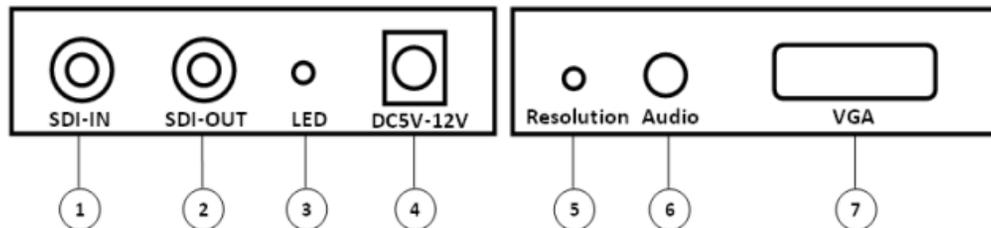
1. 1PCS 3G SDI to VGA Scaler Converter
2. 1PCS 5V DC Power Supply Adapter
3. 1PCS Operation Manual

#### IV. Specifications

SMPTE Standard	425M Level A & B, 424M, 292M, 259M-C
SDI Transmission Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
SDI in/out Resolution	SD: 480i@60, 576i@50 HD:720p@50/60, 1080i@50/60 3G:1080p@24/25/29.97/30/50/59.94/60
VGA Output Resolution	800x600@60Hz,1024x768@60Hz,1280x720@60Hz,1440 x900@60Hz,1280x1024@60Hz,1680x1050@60Hz,1600x 1200@60Hz,1920x1080@60Hz, 1920x1200@60Hz
Input Port	1 x BNC (SD/HD/3G-SDI)
Output Port	1 x BNC (SD/HD/3G-SDI), 1 x VGA,1 x Earphone(L/R)
ESD Protection Human body model	±8kV (air-gap discharge) ,±4kV (contact discharge)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F

Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20 ~ 90% RH (Non-condensing)
Power Supply	DC 5V -12V
Power Consumption (Max)	5W
Dimension	95mm x 60mm x 25 mm
Weight	260g

## V. Operation controls and Functions



1. **SDI IN:** This slot is where you connect the SDI source output for SDI signal sending to be display on screen.
2. **SDI OUT:** This slot is where you connect the SDI display with SDI cable for input source display.
3. **POWER LED:** This red LED will illuminate when the device is connected with power supply.
4. **DC IN:** Plug the 5V-12V DC power supply into the unit and connect the adapter to AC wall outlet.
5. **Resolution:** Press this button to select the output resolution .
6. **AUDIO:** This slot is where you connect the speaker or amplifier with earphone jack for audio signal display.
7. **VGA OUT:** This slot is where you connect the VGA display with VGA cable.

## VI. Application Example

