

CLUX-SDI2VS

SDI to PC/HD Scaler with
Audio

Operation Manual



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• **Trademark Acknowledgments**

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• **Safety Precautions**

Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

• **Revision History**

Version No	Date	Summary of Change
VR0	20110413	Preliminary Release

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1. Introduction

The SDI to VGA Scaler with Audio allows SD, HD and 3G-SDI signals to be display on HD/PC displays while ensuring high bit rates of 2.970 Gbit/s gives you fast signal transmission without signal loss. For professional this means that it is now easier to distribute and extend your SDI signal while giving you the ability to display your work on the existing PC displays. Further, the design of coaxial and L/R audio output allows user to output audio with both digital and analog format and the loop-through 3G-SDI design also benefit user to enjoy both SDI and PC/HD display synchronously.

2. Applications

- Broadcast video signal sending to SDI display
- 3G SDI signal convert into PC/HD signal

3. Package Contents

- SDI to PC/HD Scaler with Audio
- 5V/2.6A DC power adaptor
- Operation Manual

4. Features

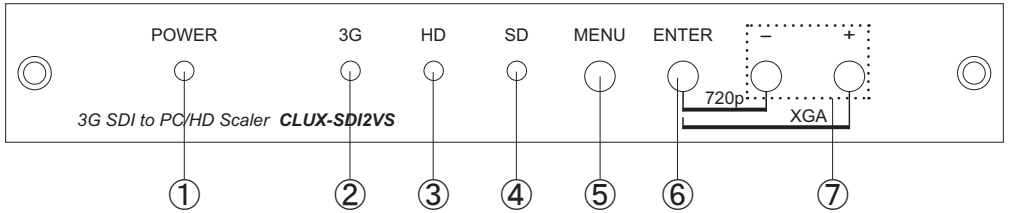
- Operation at 2.970Gb/s, 2.970/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270Mb/s
- Supports SMPTE 425M (Level A and Level B), SMPTE 424M, SMPTE 292M, SMPTE 259M
- Equalized and re-clocked loop output
- Alternative audio output to coaxial and analog 2CH
- Auto video mode detection (3G/HD/SD)
- Conversion from SMPTE 425M level B to Level A for 1080p 50/59.94/60 4:2:2 10-bit

5. Specifications

SMPTE Standard	425M Level A & B, 424M, 292M, 259M-C
SDI Transmit ion Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
Input Port	1 x BNC (SD/HD/3G-SDI)
Output Port	1 x BNC (SD/HD/3G-SDI), 1 x D-Sub 15pin, 1 x Coaxial, 2 x RCA Jack
Video Output Supports	PC: VGA ~ WUXGA@60RB, HD: 480p~1080p
Video Input Support	SDI:480i, 576i, 720p 50/60, 1080i 50/60, 1080p 24/25/30, 1080p 50/60
Power Supply	5V DC/ 2.6A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 4\text{kV}$ (contact discharge)
SDI Cable Distance	3G up to 100M (BELDEN 1694A Cable) HD up to 200M (BELDEN 1694A Cable) SD up to 300M (BELDEN 1694A Cable)
Dimensions (mm)	180(W) x 142(D) x 25(H)
Weight(g)	435
Chassis Material	Aluminum
Silkscreen Color	Grey
Power Consumption	100W
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 Consumption (W)	4

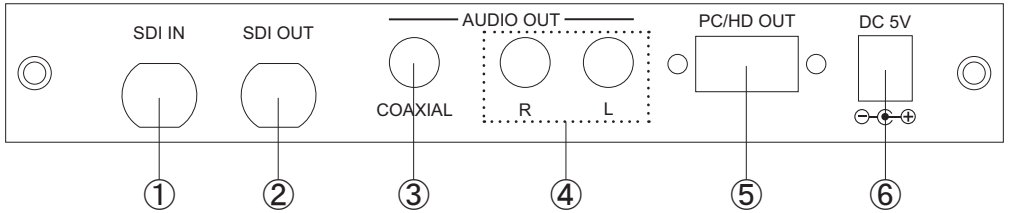
6. Operation Controls and Functions

6.1 Front Panel



- ① Power LED: This blue LED will illuminate when the device is connected with power supply.
- ② 3G LED: This green LED illuminate when the input SDI signal is with 3G format.
- ③ HD LED: This green LED illuminate when the input SDI signal is with HD format.
- ④ SD LED: This green LED illuminate when the input SDI signal is with SD format.
- ⑤ MENU: Press this button to enter/exit the OSD menu.
- ⑥ ENTER: Press this button to confirm your selection. Press both ENTER and - buttons together to switch output timing to 720p instantly and press with + buttons together to switch output timing to XGA.
- ⑦ -/+ : Press these buttons to move up or down the OSD selections.

6.2 Rear Panel



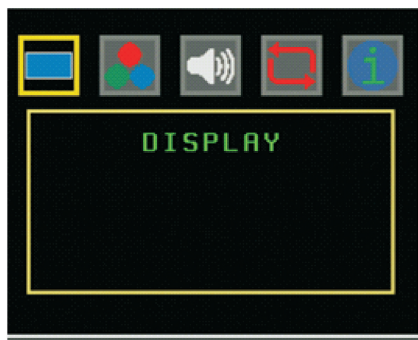
- ① SDI IN: This slot is where you connect the SDI source output for SDI signal sending to be display on screen.
- ② SDI OUT: This slot is where you connect the SDI display with SDI cable for input source display.
- ③ AUDIO OUT COAXIAL: This slot is where you connect the amplifier with coaxial cable and from amplifier to speaker
- ④ AUDIO OUT R/L: These slots are where you connect the speaker or amplifier with RCA jack for audio signal display.
- ⑤ PC/HD Out: This slot is where you connect the PC display with D-Sub 15pin cable and or HD display with D-Sub to 3RCA cable.
- ⑥ DC 5V: Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet. Blue LED will illuminate when the power is ON.

7. OSD Menu and Function List

1st Layer	2nd Layer	3rd Layer
Display	Output PC Timing with D-Sub 15pin cable	640 x 480 @60
		800 x 600 @60
		1280 X 720@60
		1024 x 768 @60
		1280 x 768 @60
		1360 x 768 @60
		1280 x 800 @60
		1280 x 1024 @60
		1440 x 900 @60
		1400 x 1050 @60
		1680 x 1050 @60
		1600 x 1200 @60
		1920 x 1200 @60
		1920 x 1080 @60
		Output HD Timing with D-Sub to 3RCA cable
	1280 x 720p @60	
	1920 x 1080p @60	
	720 x 576p @50	
	1280 x 720p @50	
	1920 x 1080p @50	
	1920 x 1080i @60	
	1920 x 1080i @50	
	720 x 576i @50	
	720 x 480i @ 60	
	Size	Full
		Over Scan
		under 1
		Under 2
		Letter Box
	Exit	Pan Scan

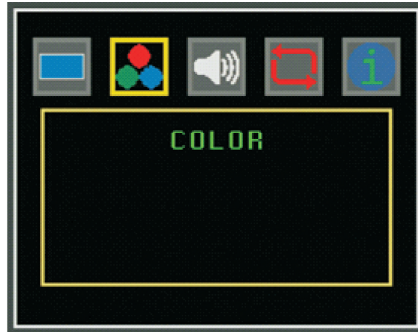
Color	Contrast	0~255(105)
	Brightness	0~192(96)
	R	0~255(128)
	G	0~255(128)
	Brightness	0~255(128)
	R Offset	0~64(32)
	G Offset	0~64(32)
	B Offset	0~64(32)
	Exit	
SDI Audio	Group 1	
	Group 2	
	Group 3	
	Group 4	
	Auto	
	Off	
Factory Reset	Yes	
Information		

7.1 Display



- Output Timings: There are total 24 timings available for user's selection.
- Size: Adjust the display's screen size from full, over scan, under scan, letter box or Pan scan to fit the different timing's display and make the viewing become more pleasure.

7.2 Color



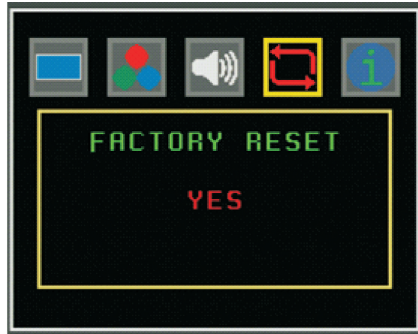
- Adjust screen color RGB's Contrast and or Brightness.

7.3 SDI Audio



- Select SDI audio output from 4 different group and each group contents 2CH. If no audio output is require the audio can also be mute by selecting off.

7.4 Factory Reset



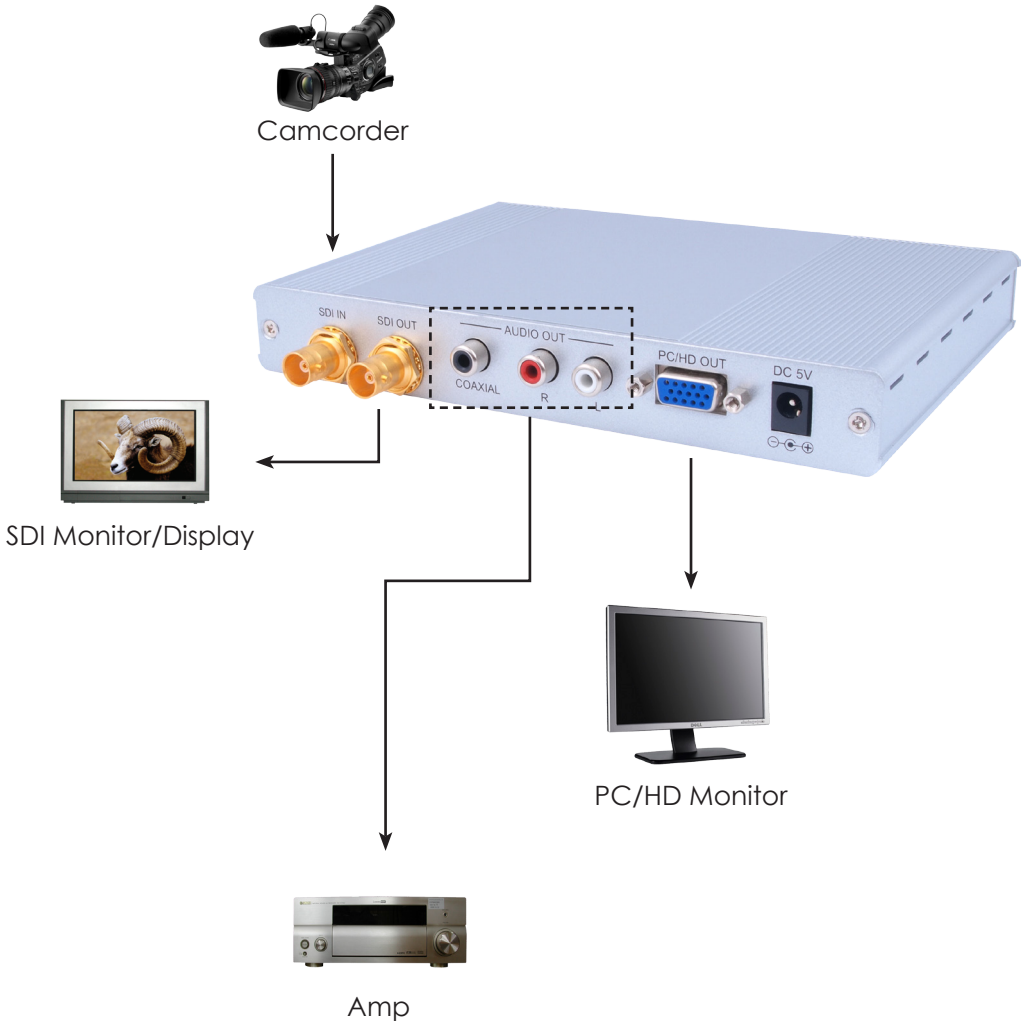
- Select YES to return to the factory setting. Factory setting on display is at 1024 x 768@60Hz with full size screen, Color setting's factory default rate are as the value in the bracket in the OSD chart and SDI audio is on auto.

7.5 Information



- Displaying both input source and output display timing with software firmware version.

8. Connection and Installation





Acronyms

Acronym	Complete Term
3G	Bandwidth 2.97G bit/s \approx 3G
SDI	Serial Digital Interface



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