



CLUX-DVI2SDIA

DVI to 3G SDI Converter



Operation Manual

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, 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 any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

| VERSION NO. | DATE DDMMYY | SUMMARY OF CHANGE |
|-------------|-------------|-------------------|
| VS1 | 23/02/12 | First Release |
| | | |



CONTENTS

- 1. Introduction.....1**
- 2. Applications.....1**
- 3. Package Contents1**
- 4. System Requirements.....1**
- 5. Features1**
- 6. Operation Controls And Functions2**
 - 6.1 Front Panel..... 2
 - 6.2 Rear Panel..... 3
- 7. Connection and Installation.....4**
- 8. Specifications5**
- 9. Acronyms6**





1. INTRODUCTION

The DVI to SDI converter allows a DVI-D (HD timing) video signal to be converted to be shown on a SDI display. It is capable of high bit-rate processing at 2.970Gbps which ensures fast signal transmission without signal loss. In addition, the external audio input allows the user to choose between the audio from a different source or the embedded audio from the DVI input.

2. APPLICATIONS

- PC/HD signal sending to SDI display
- DVI signal conversion to 3G-SDI display

3. PACKAGE CONTENTS

- DVI to 3G-SDI Converter
- 5V/2.6A DC Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

Input DVI source equipment with DVI cable and output SDI monitor with SDI cable.

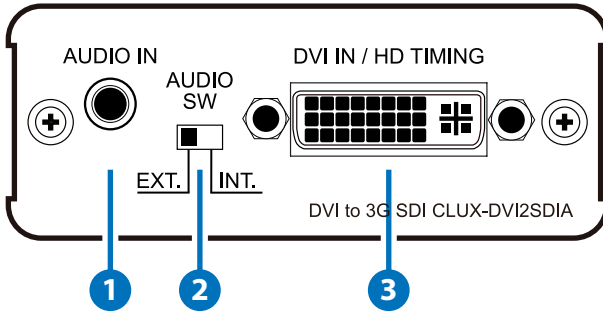
5. FEATURES

- Operates at bit-rates of 2.970Gbps, 2.970/1.001 Gbps, 1.485Gbps, 1.485/1.001 Gbps and 270Mbps
- Integrated audio de-embedding for a maximum of 8 channels of 48kHz audio
- Automatic video mode detection (3G/SD/HD)
- Conversion from DVI-D to SD/HD/3G signal
- SDI to DVI converter can be used to extend your signal over long distances
- Supports input signal transmission distances of up to 300m for SD signals, 200m for HD signals and 100m for 3G signals

NOTE: Cable tested with Belden 1694A. Operating distance may vary if used with another type of cable.

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



1 AUDIO IN

Connect to the audio source equipment (such as DVD player) with a 3.5 mm phone jack for audio signal input.

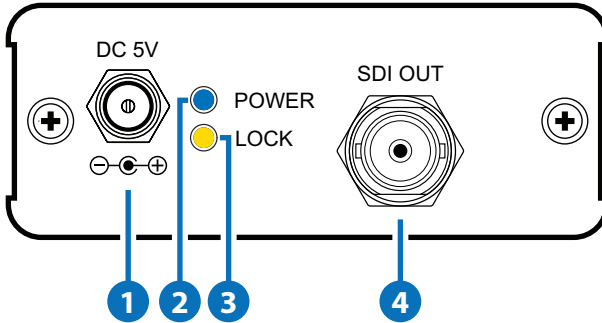
2 AUDIO SW

This switch allows the user to choose between audio sources. Switch between the external (EXT) audio input (3.5 mm phone jack) or the internal (INT) audio from an HDMI to DVI adaptor input.

3 DVI IN/HD TIMING

Connect to the DVI input source such as a PC or laptop with a DVI cable or with a HDMI cable and HDMI to DVI adaptor.

6.2 Rear Panel



1 DC 5V

Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

2 POWER LED

This blue LED will illuminate when the device is connected to the power supply.

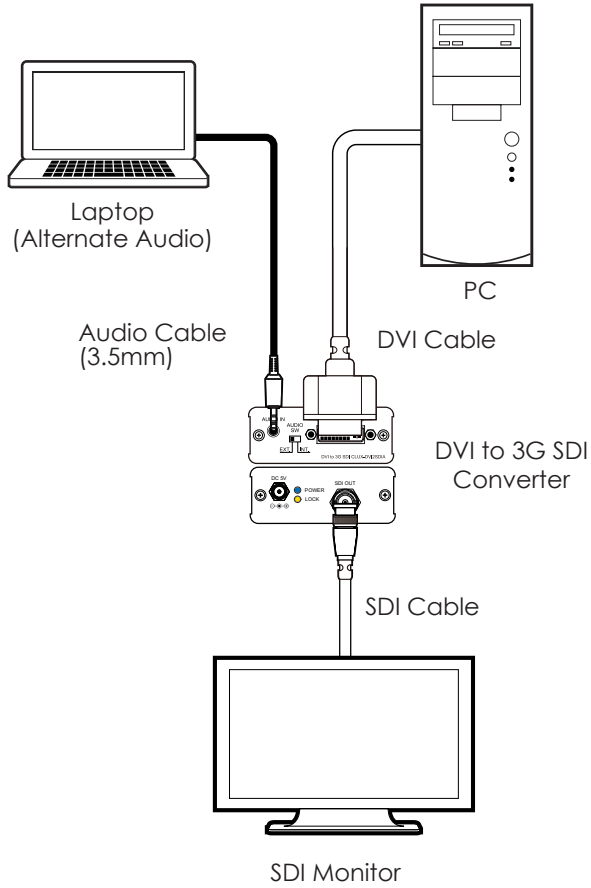
3 LOCK LED

This yellow LED will illuminate when both input source and SDI output display has successfully sent and received the signal.

4 SDI OUT

Connect to the SDI output display.

7. CONNECTION AND INSTALLATION





8. SPECIFICATIONS

| | |
|------------------------------|--|
| Operation Data | 2.970Gbps, 2.970/1.001 Gbps, 1.485Gbps, 1.485/1.001 Gbps and 270Mbps |
| Frequency Bandwidth | 225 MHz/link (HDMI 1.3) |
| Input Port | 1×DVI, 1×3.5mm Phone Jack |
| Output Port | 1×BNC (SD-SDI/HD-SDI/3G-SDI) |
| SDI Video Supports | SD-SDI: 480i, 576i, HD-SDI: 720p@50/60,1080i@50/60, 1080p@23.98/24/25/29.97/30 3G-SDI: 1080p@50/60 |
| Audio Input Support | Internal: PCM 2/5.1/7.1CH, External: Analog 2CH |
| ESD Protection | Human body model: ±8kV (Air-gap discharge) ±4kV (Contact discharge) |
| Power Supply | 5V/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| 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 | 78.5mm (W)×124 mm (D)×30 mm (H) |
| Weight | 204g |
| Chassis Material | Aluminum |
| Silkscreen Color | Silver |
| Power Consumption | 4.3W |
| 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) |

9. ACRONYMS

| ACRONYM | COMPLETE TERM |
|---------|---------------------------------|
| 3G | Bandwidth 2.94Gbps \approx 3G |
| SDI | Serial Digital Interface |



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