

Globalmediapro SDVI-101

SDI to DVI Converter

Operation Manual

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1. INTRODUCTION

The SDI to DVI Converter allows SD, HD and 3G-SDI signals to be shown on DVI display. This means that it is now easier for professionals to distribute and extend their SDI signal while giving the ability to display work on DVI display. Additionally, the built-in stereo Audio Out will allow the user to enjoy perfectly synchronized video and audio.

2. APPLICATIONS

- Smart Home/Luxury House
- Smart building or any Smart AV Installation System
- Converting a 3G SDI camera signal to DVI signal

3. PACKAGE CONTENTS

- 3G SDI to DVI Converter
- 5 V/2.6 A DC power adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

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

5. FEATURES

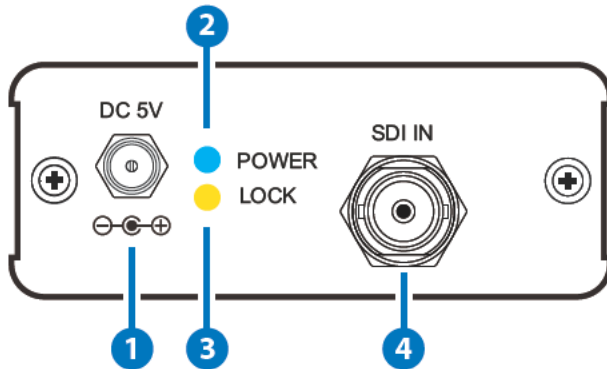
- Shows SDI source on DVI display
- Auto-detects SD-SDI, HD-SDI and 3G-SDI input signals
- SDI interface operates at bitrates of 2.970 Gbit/s, 2.970/1.001 Gbit/s, 1.485 Gbit/s, 1.485/1.001 Gbit/s and 270 Mb/s
- Converts SDI signal to DVI:
 1. SD-SDI (SMPTE 259M-C) to 480i/576i
 2. HD-SDI (SMPTE 292M) to 720p@50/59.94/60, 1080i@50/59.94/60
 3. 3G-SDI (SMPTE 424M/425M-AB) to 1080p@23.98/24/25/29.97/30/50/59.94/60, 1080PsF@23.98/24/25/29.97/30

- Supports SDI input modes:
 1. SD-SDI (SMPTE 259M-C, at bitrates of 270 Mbit/s)
 2. HD-SDI (SMPTE 292M, at bitrates of 1.485 Gbit/s and 1.485/1.001 Gbit/s)
 3. 3G-SDI (SMPTE 424M/425M-AB, at bitrates of 2.970 Gbit/s and 2.970/1.001 Gbit/s)
- Supports SDI input distance up to 100 meters (3G-SDI), 200 meters (HD-SDI), or 300 meters (SD-SDI)

Note: Tested with Belden 1694A Cable. Operating distances may vary if used with cables of different specifications.

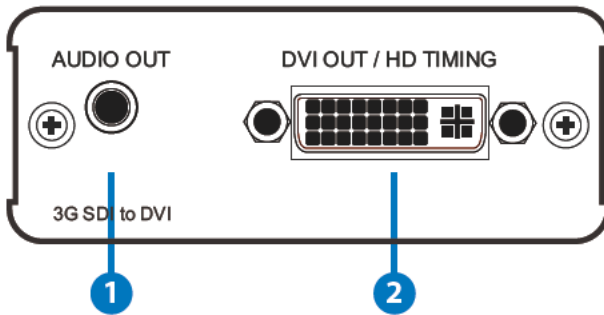
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



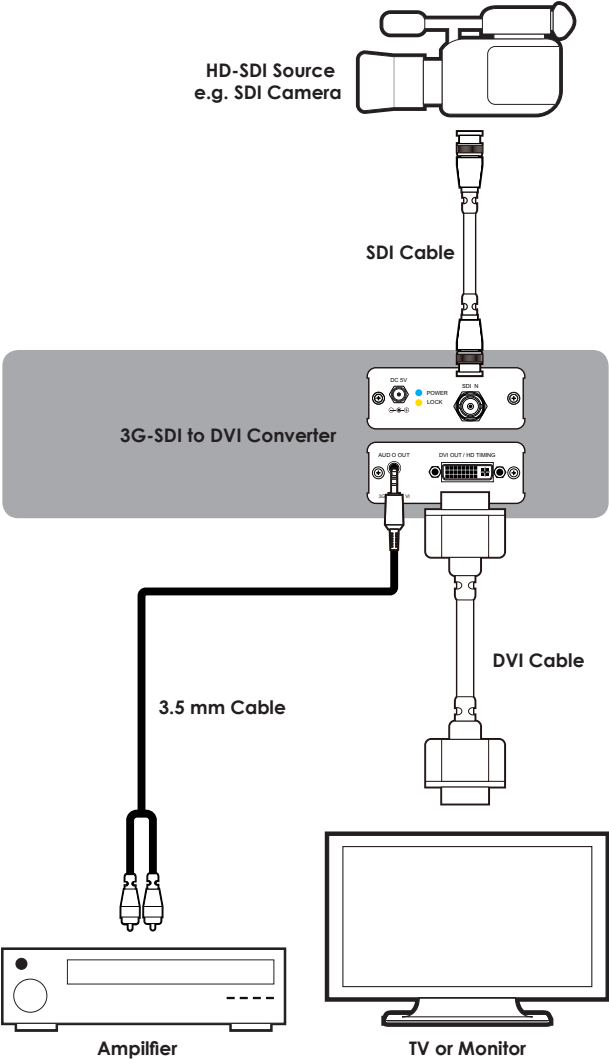
- 1 DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.
- 2 POWER LED:** The blue LED will illuminate when the device is connected to the power supply.
- 3 LOCK LED:** This yellow LED will illuminate when both input SDI source and output DVI display has sent and received the signal.
- 4 SDI IN:** This slot is where you connect the SDI source equipment for sending the signal to the display screen.

6.2 Rear Panel



- 1 AUDIO OUT (3.5 mm jack):** Connects to a TV or amplifier with audio input (stereo only).
Note: Multichannel sound will be down-mixed to stereo only for output from the unit's audio output.
- 2 DVI OUT / HD TIMING:** Connects to a TV or monitor with DVI input.
Note: The DVI equipped display must be able to support HD resolutions and timings to be compatible.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

SDI Transmission Rates	2.970 Gbps, 2.970/1.001 Gbps, 1.485 Gbps, 1.485/1.001 Gbps, & 270 Mbps
Video Bandwidth	225 MHz/6.75 Gbps
Input	1× BNC (SD/HD/3G-SDI)
Output	1× DVI, 1× 3.5mm Phone Jack
SDI Timing Support	SD-SDI: SMPTE 259M-C, 270 Mbit/s HD-SDI: SMPTE 292M, 1.485 & 1.485/1.001 Gbit/s 3G-SDI: SMPTE 424M/425M-AB, 2.970 & 2.970/1.001 Gbit/s
DVI Timing Support	480i, 576i, 720p@50/59.94/60 1080i@50/59.94/60 1080p@23.98/24/25/29.97/30/50/59.94/60
ESD Protection	Human-body Model: ± 8 kV (air-gap discharge) ±4 kV (contact discharge)
Power Supply	5 V DC / 2.6 A (US/EU standards, CE/FCC/UL certified)
SDI Cable Distance	3G/HD/3G-SDI up to 100/200/300 meters with BELDEN 1694A Cable
Dimensions	78.5 mm (W)×124 mm (D)×30 mm (H)
Weight	194 g
Chassis Material	Aluminum
Silkscreen Colour	Silver
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	4 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
3G	Bandwidth 2.97Gbps \approx 3G
SDI	Serial Digital Interface