

ML-3G2DVI

SDI to DVI Converter

User Manual



3G HD SD HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE



Made in Taiwan

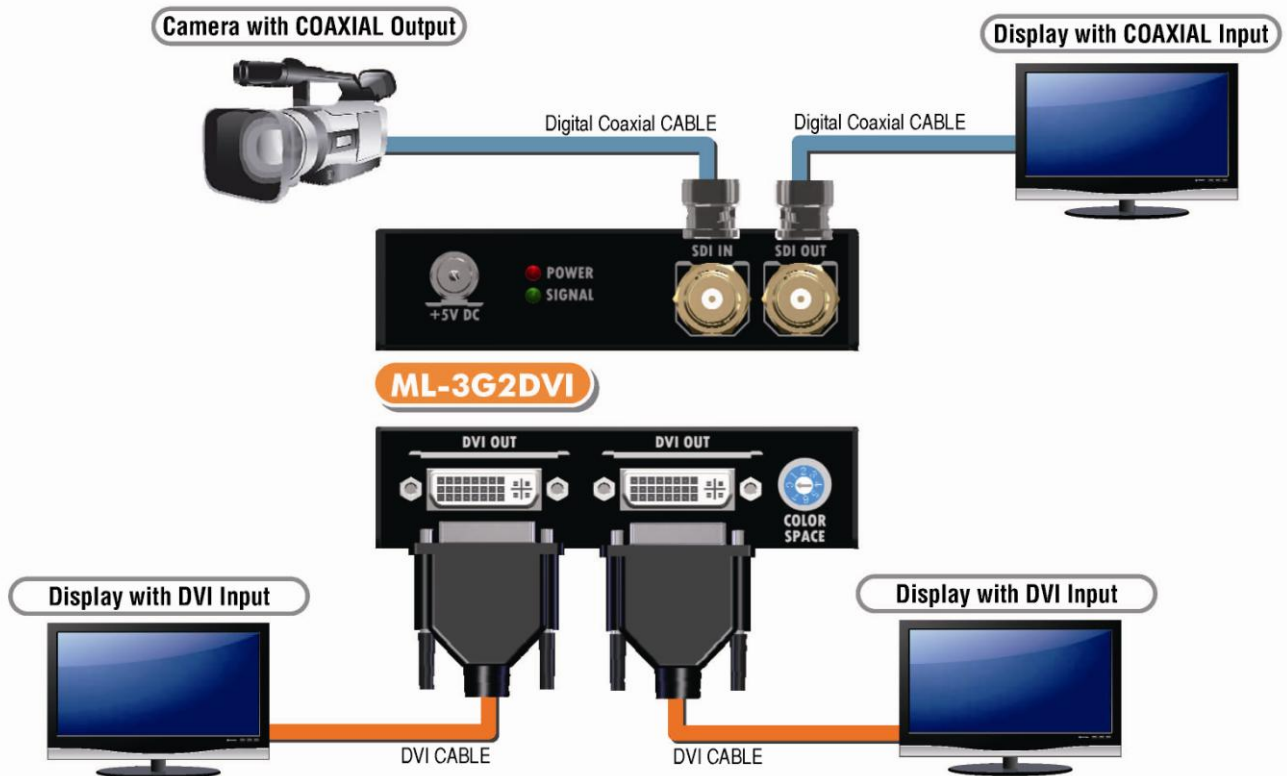


Safety and Notice

The **ML-3G2DVI SDI to DVI Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **ML-3G2DVI** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep away the objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter, power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

The ML-3G2DVI SDI to DVI Converter with Loopout provides a cost effective way to convert 3G/HD/SD-SDI signal to DVI signal. The conversion between SDI and DVI is pure digital and guarantees no loss transformation for both audio and video. Plus, with up to 8 channels audio support, 7.1 channel or 5.1 channel audio becomes available. The ML-3G2DVI also provides 1 low jitter and re-clocked outputs for daisy chain or a monitor.



Features

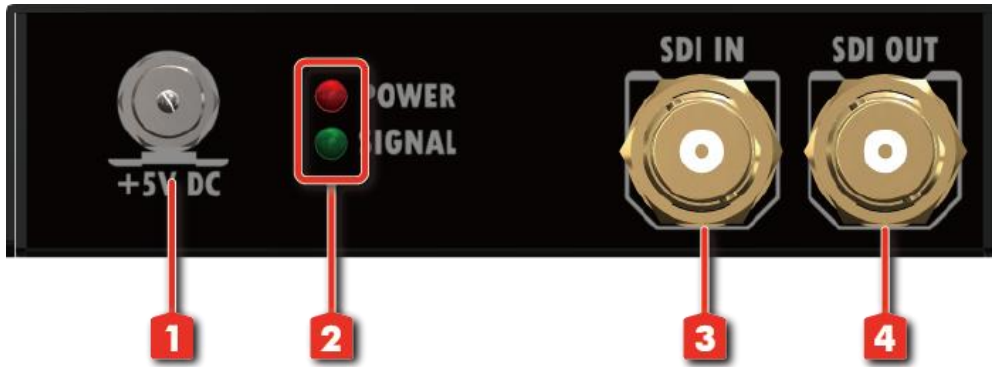
- Supported high-definition (HD) formats:
NTSC 525@59.94, PAL 625@50, 720p@50, 720p@59.94, 720p@60(recommend), 1080i@50,
1080i@59.94, 1080i@60, 1080p@23.97, 1080p@24, 1080p@25, 1080p@29.97, 1080p@30, 1080p@50,
1080p@59.94, 1080p@60(recommend)
Bit Rate: 2.97 Gbps, 2.967 Gbps, 1.485 Gbps, 1.4835 Gbps, 270 Mbps
- Auto 3G/HD/SD-SDI detection
- One SDI compliant output and two DVI compliant output

Specifications & Package Contents

Model Name		ML-3G2DVI
Technical		
Role of usage	SDI to DVI Converter	
SDI standards	SD-SDI, HD-SDI & 3G-SDI	
Input Video bandwidth	2.970Gpbs, 2.970/1.001Gbps	
Input Video support	[3G] 1080p @50/59.94/60Hz (4:2:2) [HD] 720p @50/59.94/60Hz, 1080i @50/59.94/60Hz, 1080p @24/30Hz [SD] NTSC @59.94Hz, PAL @50Hz	
Audio support	Yes	
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 50Ω]	
Input	1x BNC [SDI]	
Output	2x DVI&1xBNC	
BNC connector	3G 75Ω inter-locked socket	
DVI connector	DVI [29-pin female digital only]	
Control Switch	8-level rotary switch for color space setting	
Mechanical		ML-3G2DVI
Housing	Metal enclosure	
Weight	Package	
Dimensions [L x D x H]	Carton	450 x 370 x 300mm [1'5.7" x 1'2.6" x 11.8"]
	Model	107.5 x 95.6 x 25.2mm [4.2" x 3.7" x 0.9"]
	Package	270 x 175 x 80mm [10.6" x 6.9" x 3.2"]
Weight	Model	250g [8.8oz]
	Package	
Power supply	5V 2A DC	
Power consumption	3 Watts [max]	
Operation temperature	0~40°C [32~104°F]	
Storage temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	

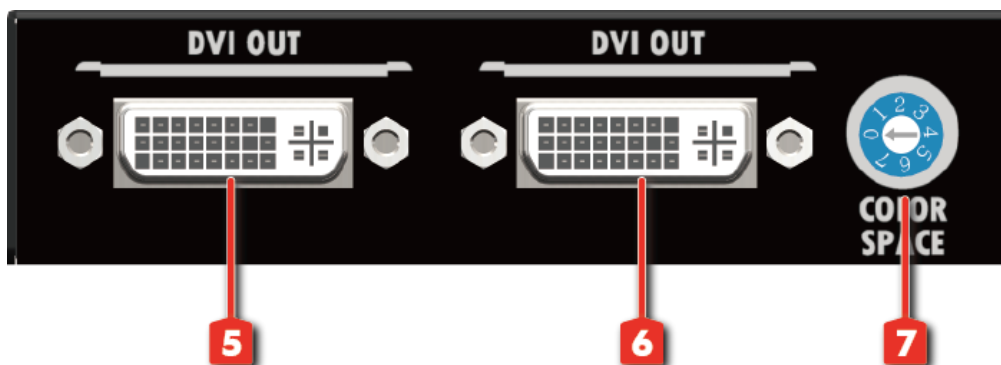
3G INPUT	
1080p @ 50/ 59.94 / 60Hz	SMPTE 424M, SMPTE 425M
HD INPUT	
720p @ 50Hz	SMPTE 296M -3
720p @ 60 / 59.94Hz	SMPTE 296M -1, -2
1080i @ 50Hz	SMPTE 274M -6
1080i @ 60 / 59.94Hz	SMPTE 274M -4, -5
1080p @ 24 / 23.98Hz	SMPTE 274M -10, -11
1080p @ 25Hz	SMPTE 274M -9
1080p @ 30 / 29.97Hz	SMPTE 274M -7, -8
SD INPUT	
NTSC	
PAL B,D,G,H,I	

Front Panel

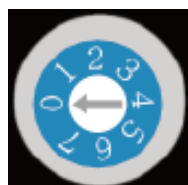


1. **+5V DC:** Dip Switch for audio output ON/OFF
2. **Signal LED –**
<red> Power LED
<green> Signal LED
3. **SDI IN:** 3G/HD/SD-SDI input
4. **SDI OUT:** 3G/HD/SD-SDI output

Rear Panel



5. **DVI OUT:** connect to digital DVI display
6. **DVI OUT:** connect to digital DVI display
7. **MODE:** 8-level rotary switch for color space settings



- 0: color space Auto
- 1: color space force YCbCr
- 2: color space force RGB
- 3~7: Reserved

The SELLER warrants the **ML-3G2DVI SDI to DVI Converter** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the ML-3G2DVI features and specifications is subject to change without further notice.