Made in Taiwan

CV-523

Safety and Notice

The CV-523 HDMI 1.3 to 3G/HD/SD-SDI Mini Converter has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the CV-523 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.



HDMI 1.3 to 3G/HD/SD-SDI Mini Converter

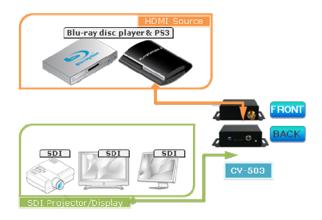
User Manual





Introduction

The **CV-523 Mini HDMI 1.3 to 3G/HD/SD-SDI Converter** provides a professional way to convert HDMI to 3G/HD/SD-SDI in real time. The conversion between SDI and HDMI 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 CV-523 offers low jitter SDI output for daisy chain. With the use of CV-523, the most popular uncompressed video interface in the consumer world is readily available for professional SDI equipments!



Features

• Supported formats:

NTSC 525@59.94, PAL 625@50, 720p@50,720p@59.94, 720p@60, 1080i@50, 1080i@59.94, 1080i@60, 1080p@23.98, 1080p@24, 1080p@25, 1080p@29.97, 1080p@30, 1080p@50, 1080p@59.94, 1080p@60 Bit Rate: 2.97 Gbps, 2.967 Gbps, 1.485 Gbps, 1.4835 Gbps, 270 Mbps

- Auto 3G/HD/SD-SDI detection
- HDMI 1.3c supported
- SDI compliant outputs
- External DIP Switch Configuration

Specifications & Package Contents

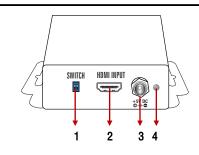
Model Name		CV-523	
Technical			
SDI standards		SD-SDI, HD-SDI & 3G-SDI	
Auto 3G/HD/SD-S	DI detection	Yes	
Video bandwidth		[2.97Gpbs & 2.97/1.001Gbps]	
		[3G] 1080p50/59.94/60 (4:2:2)	
Video support		[HD] 720p50/59.94/60, 1080p24/30 , 1080i50/59.94/60	
		[SD] NTSC@59.94Hz, PAL@50Hz	
Input signal		HDMI 1.3c compliant	
		ISD-SDI1 SMPTE 259M	
Output signal		[SD-SDI] SMPTE 239M [HD-SDI] SMPTE 292M, 296M	
Output signal		[3G-SDI] SMPTE-424M	
Output impedance	۵	75Ω	
Synchronization mode		/ 552 Internal synchronization or external synchronization	
Eve pattern chara		Extra low alignment jitter 0.05UI at HD	
Lye pattern chara	0101131103	[3G-SDI] up to 90m (300ft)	
Cable equalization	ı	[HD-SDI] up to 150m (500ft)	
ouble equalization		[SD-SDI] up to 300m (1000ft)	
Audio support		Yes (up to 7.1ch)	
PCB stack-up		6-layer board [impedance control — differential 100Ω ; single 50Ω]	
Input		1x HDMI	
Output		1x BNC [SDI]	
BNC connector		75Ω inter-locked socket	
HDMI connector		Type A [19-pin female]	
DIP switch		2-pin [EDID video format / EDID audio format]	
Mechanical			
Housing		Metal enclosure	
Dimensions	Model	107 x 74 x 25mm [2.9"x4.2"x1"]	
(L x W x H)	Package	200 x 140 x 75mm [7.9"x5.5"x3"]	
	Carton		
Weight	Model	220g [7.7oz]	
•	Package	500g [19.4oz]	
Fixedness		Inter-locked power supply	
Power supply		5V 4A 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]	
Package Contents		1x CV-523	
		1x 5V power supply unit 1x User Manual	
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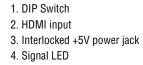
Supported Resolutions

3G-SDI Output					
1080p @ 50/ 59.94 / 60Hz	SMPTE 424M, SMPTE 425M				
HD-SDI Output					
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-SDI Output					
NTSC					
PAL B,D,G,H,I					

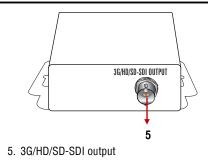
Panel Description

Front Panel





Rear Panel



DIP Switch

A 2-pin DIP switch is used for user interface, and users can access this switch from the bottom of the unit.



Pin #1	Pin #2	EDID feature	
0FF (🛨)	0FF (♠)	3G/HD/SD-SDI with multi-channel audio except DTS-HD & Dolby True HD	
0FF (🛨)	ON (♣)	3G/HD/SD-SDI With stereo PCM audio	
ON (♥)	0FF (♠)	HD/SD-SDI With stereo PCM audio	
ON (♣)	ON (♥)	EDID Learning Mode	

Notice

- 1. Factory default: Off-Off [♠-♠]
- 2. The CV-523 supports audio sample frequency at 48kHz only.
- 3. Only support audio group 1 & 2
- 4. Signal LED Indication:

	Green light	Orange light	No light
Indication	3G-SDI	HD/SD-SDI	Not supported format or no signal

EDID Learning

- 1. Please make sure the DIP switch is at On-On [₹-₹].
- 2. Connect the HDMI display to the HDMI port of CV-523.
- 3. Power on CV-523.
- 4. After LED turns to light, the EDID Learning procedure is completed.
- 5. Please DO NOT change the DIP switch, otherwise the built-in EDID Learning information will be lost.

Limited Warranty

The SELLER warrants the **CV-523 HDMI 1.3 to 3G/HD/SD-SDI Mini 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 surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

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 and power adapters are limited to a 30 day warranty and 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 **CV-523** features and specifications is subject to change without further notice.

