



Mini Component to HDMI Converter





Safety and Notice

The **CV-005B Mini Component to HDMI Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, CV-005B 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 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 **CV-005B Mini Component to HDMI Converter** offers the highest compatibility among component to HDMI in the market. This device supports component to HDMI conversion. CV-005B supports the audio insertion of S/PDIF either thru RCA or TOSLINK connector into HDMI output! With this extra feature, users can combine asynchronous video and audio sources into the state-of-art HDMI compliant A/V signal for having high standard A/V experiences!

CV-005B is designed to ease the conversion between the legacy YPbPr format to the most popular HDMI with affordable cost. With this mini converter, the bothersome video format issues will not become a bottleneck in your applications and the handy audio support can make the input video and audio become HDMI ready.

Features

- Supports HDMI 1.2 compliant
- Supports HDCP 1.2
- Multiple channel or stereo S/PDIF support
- Digital S/PDIF audio insertion support for HDMI audio *
- USB Firmware upgradable to guarantee the latest HDMI compatibility.



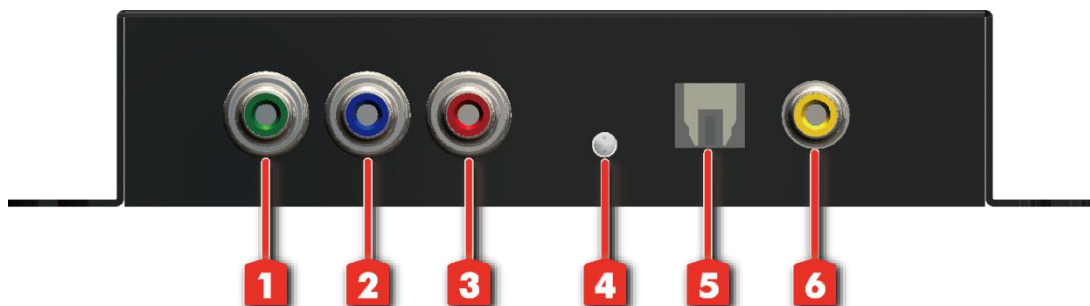
Connect only one S/PDIF thru either RCA or TOSLINK connector!

Specifications & Package Contents

Model Name		CV-005B
Technical		
HDMI/DVI Output Compliance		HDMI 1.2
Digital video bandwidth		2.2Gbps
Analog video bandwidth		74.25MHz
Analog audio bandwidth		20 ~ 20KHz
Maximum resolution		1080p@30 / 1080i@60
Input TMDS signal		1.2 Volts [peak-to-peak]
Input DDC signal		5 Volts [peak-to-peak, TTL]
Input		1x YPbPr + 1xUSB + 1x RCA + 1x TOSLINK
Output		1x HDMI
S/PDIF support		48KHz/2CH or Multi CH
ESD protection		[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±2kV
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
HDMI connector		Type A
TOSLINK connector		S/PDIF
RCA connector		
USB connector		Mini-Type A
DC connector		P 1.3
DIP switch		1 pin DIP switch for HDCP ON/OFF
Mechanical		
Housing		Metal enclosure
Dimensions (L x W x H)	Model	125 x 165 x 28mm [4.9" x 6.5" x 1.1"]
	Package	140 x 200 x 75mm [5.5" x 7.9" x 3"]
	Carton	420 x 400 x 300mm [1'8" x 1'4" x 11.8"]
Weight	Model	485g [1.1 lbs]
	Package	1190g [2.6 lbs]
Power supply		5V 0.85A DC
Power consumption		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-005B 1x 5V 0.85 A interlocked power adapter 1x User Manual

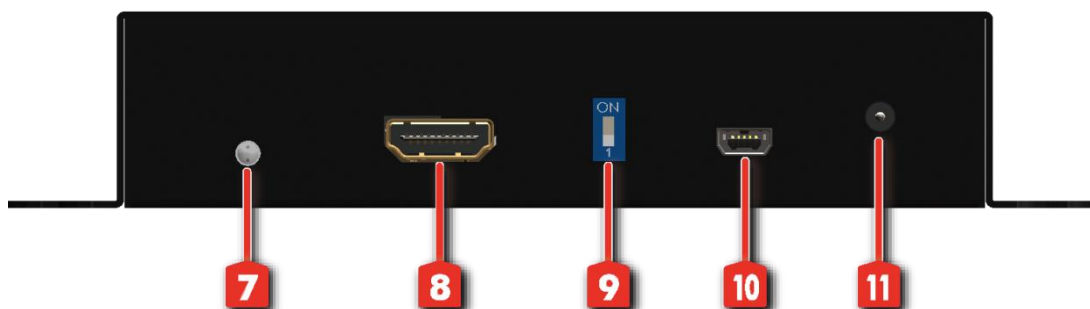
Panel Descriptions

Front Panel



1. Component - Y input
2. Component - Pb input
3. Component - Pr input
4. Signal indicator LED
5. S/PDIF audio input
6. S/PDIF audio input

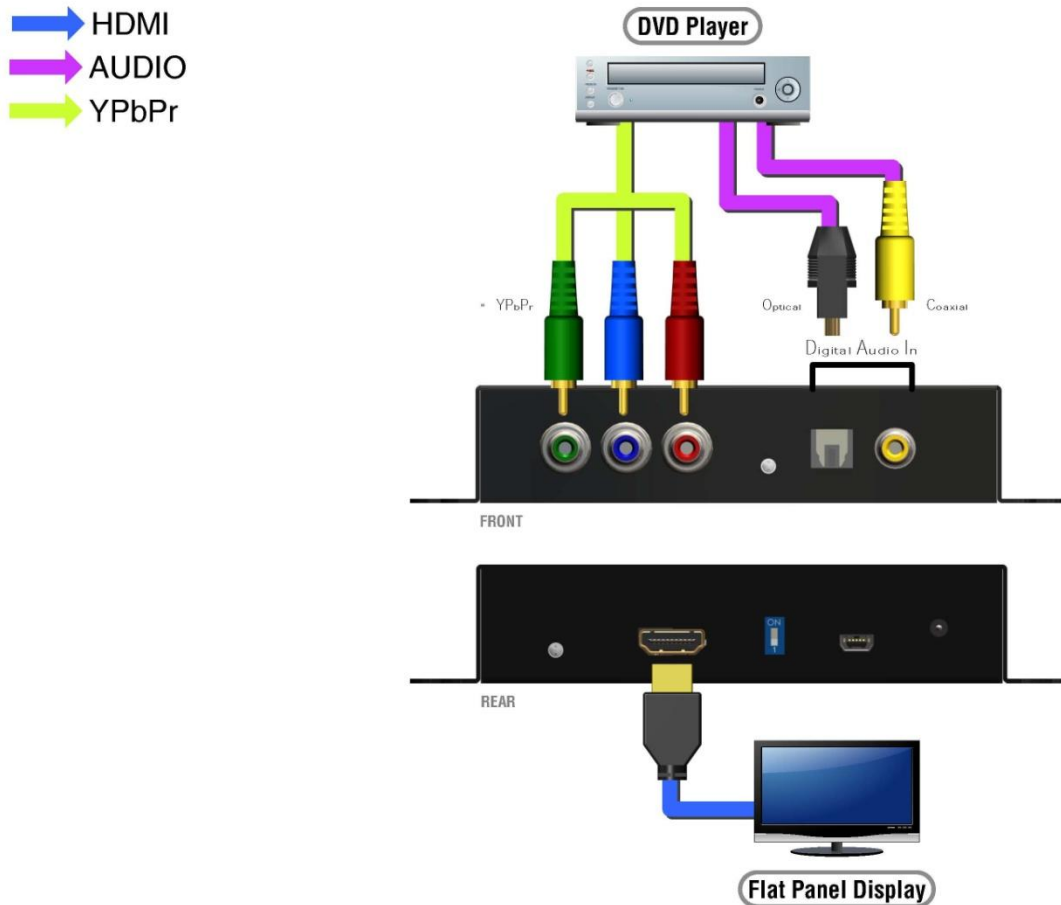
Rear Panel



7. Display indicator LED
8. HDMI output
9. Dip Switch for HDCP
10. Firmware update
11. 5V Power

1. Connect your YPbPr source to the input connector.
2. Connect your S/PDIF source to the input connect, and remember only thru either RCA or TOSLINK connector.
3. Connect your HDMI enabled monitors into the device's HDMI output port.
4. Power up the CV-005B.

Connection Diagram



Switch Position	↑	↓
HDCP	On	OFF

User can decide if the output HDMI supports HDCP or not using the built-in 1 DIP switch!

Notice

1. As the video formats evolves and expands, CV-005B is firmware upgradable for this fashion.
2. S/PDIF supports only 48kHz audio sample rate. Other than this rate, the input digital audio should be adjusted to 48kHz in order to get audio signal correctly sent.

LED Indication

1. For the LED on the YPbPr panel, "Orange" means power on but no active signal detected, and "Green" means both power and active signal are detected!
2. For the LED on HDMI panel, "Orange" means power on but no HDMI equipped display detected, and "Green" means both power and HDMI equipped monitor are detected!

Limited Warranty

The SELLER warrants the **CV-005B Mini Component to HDMI 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. 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 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 **CV-005B** features and specifications is subject to change without further notice.



Support

For more info or tech support

<http://www.siig.com/support>

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