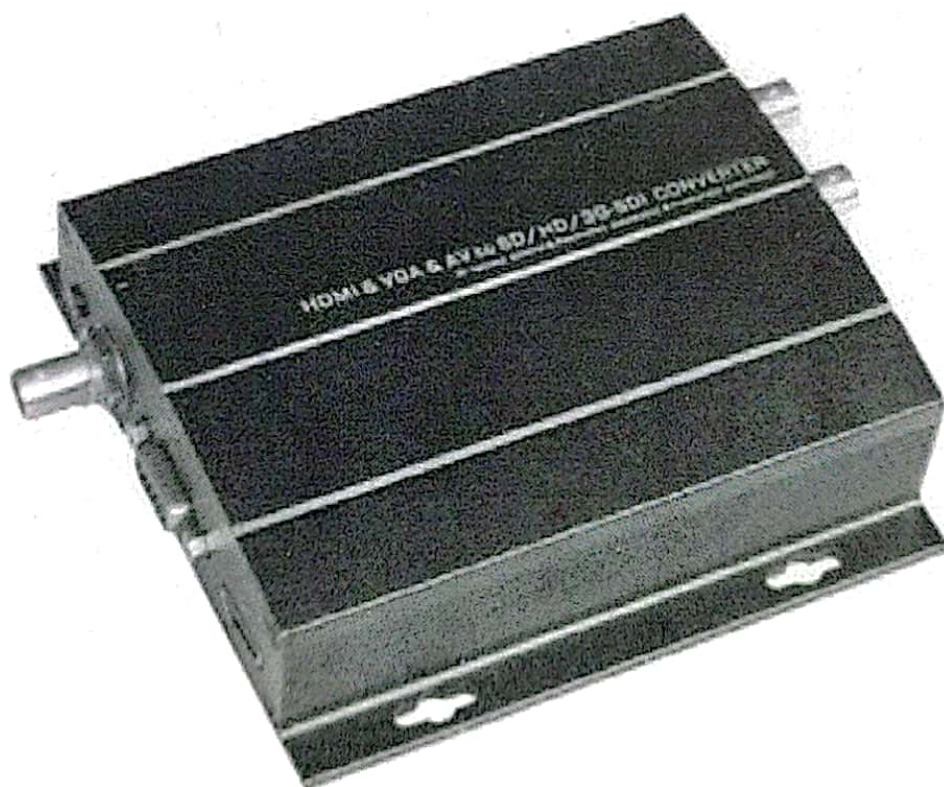


HDMI/VGA/AV(CVBS) to SD/HD/3G SDI

Converter

User Manual



User Manual

HDMI/VGA/AV(CVBS) to SD/HD/3G-SDI Converter



NOTE: The casing design is subject to change without notice.

HDMI & VGA & AV to SD/HD/3G-SDI Converter a single channel HDMI signals or VGA signals or AV(CVBS) signal to SD/HD/3G-SDI signals. It integrates SDI Cable equalizer and re-clocker to enhance video performance and stability. Simultaneously, it also Integrates and converts the audio signals of CABS or VGA, then embed it to SDI signal .It supports multiple resolution up to 1920x1080@60HZ. It is without scaler, while it supports the most popular resolutions to ensure high compatibility with wide brands of PC and HDTV. It provides cheaper solution of connecting HDTV and PC and AV(CVBS) to SDI device.

Features

- HDMI / VGA / AV input can be selected
- SMPTE 425M (A level and B level), SMPTE424M, SMPTE292M, SMPTE259M-C.
- Carry 2 channel SDI signal out.
- Support for OSD menu operation interface
- Support all formats asymmetric conversion
- The signal lost blue screen warning
- SDI output format can be specified
- Automatically embed SDI audio signal to HDMI signal.
- Support remote control



Please read the Manual before attempting to use this product.

Specifications and appearance are subject to change without notice.



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN!**



**TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT OPEN COVERS (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.**



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Caution

1. Handle this product with care

Avoid any shock or bumping of the product. Improper handling could damage the product. Do not handle the unit with wet hands. Provide proper ventilation and air circulation and do not use near water.

2. Requires a proper operating environment

This product is not waterproof and is designed for indoor use. The allowable temperature range for operation of this product is between $-0^{\circ}\text{C}\sim 40^{\circ}\text{C}$ / $32^{\circ}\text{F}\sim 104^{\circ}\text{F}$.

3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Cleaning

Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

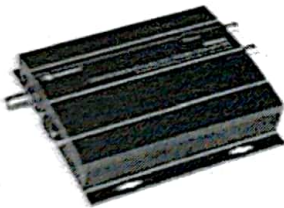
6. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

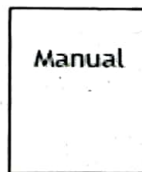
Package Contents

1. One (1) HDMI & VGA & AV to SD/HD/3G-SDI Converter
2. One (1) User Manual
3. One (1) AC Adapter
4. One (1) Remote controller

1.



2.



3.

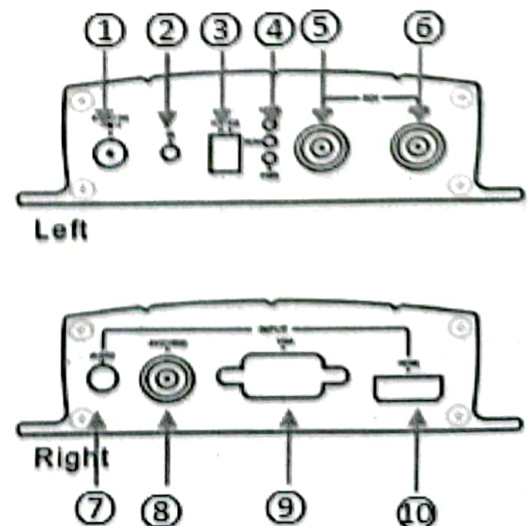
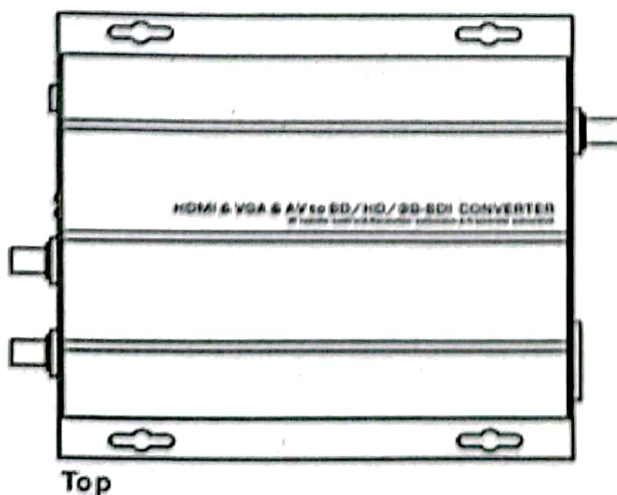


4.



For any returns, please include all components listed above with original packaging in **Resalable Condition**. **Absolutely No Returns** will be accepted if any component is missing/damaged.

Parts & Functions



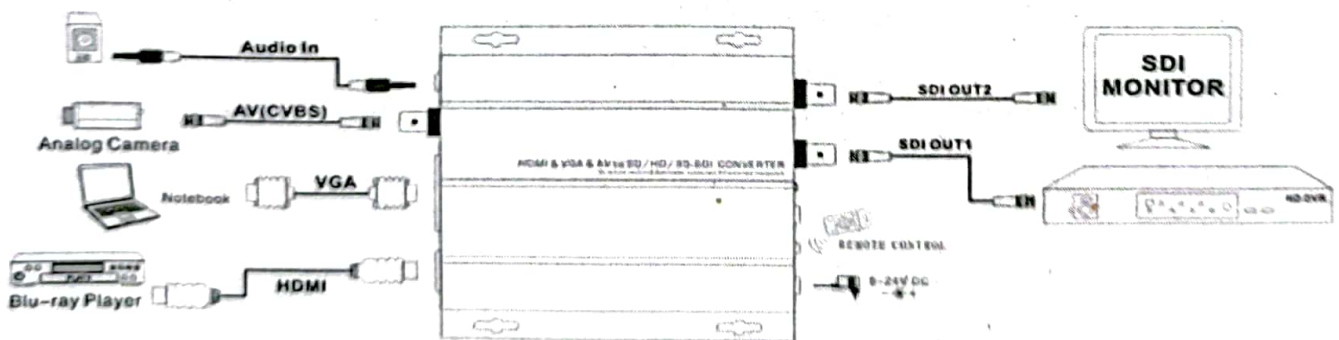
- ① 5~12V DC: 5~12V DC Power input port
- ② IR: Infrared receiver
- ③ K1/K2: DIP Switch, set the HDMI/VGA output mode
- ④ Status Indicator LED: PWR/SDI/HDMI
- ⑤ SDI OUT1 : Connect the SDI monitor or DVR
- ⑥ SDI OUT 2: connect the SDI monitor or DVR
- ⑦ Audio: Audio input can be connected with audio source
- ⑧ VGA: VGA input, connect a VGA source
- ⑨ AV(CVBS): Analog video input port, connect the analog camra
- ⑩ HDMI: HDMI Input port, Connected to HDMI Source

Note: SDI OUT 1 and SDI OUT 2 is the same signal output, At the same time, you can only output HDMI or VGA or AV signal all the way, through the remote control to select the output

Name	Color	Status	Description
LOCK	Green	ON	SDI signal is active and connect normal
		OFF	SDI signal is inactive
RUN	Green	Flickering	Device run normal
		OFF	Device run no normal
PWR	Green	ON	Power on
		OFF	Power off

Application Diagram

* The distance depends on the quality of the SDI signal from the HD camera source and also the Coax Cable & Connector

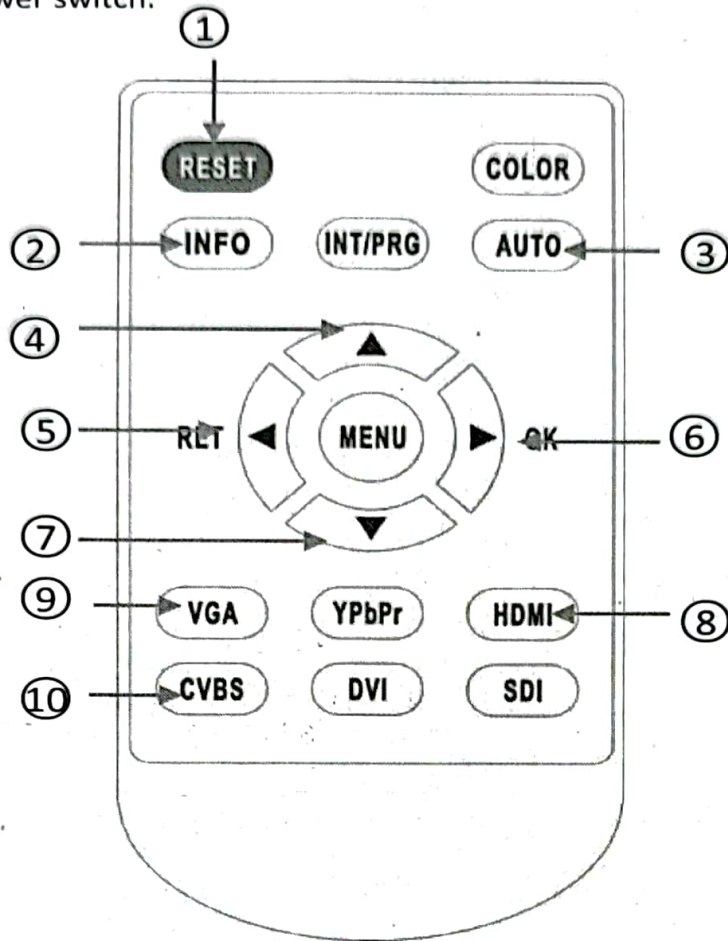


See page 8 for Important Notes about Cable and Connector for SDI Monitor

Hardware Installation

1. Connect HDMI or VGA or AV video sources Universal cable Converter connected
2. Connect one 75Ω RG-6U Coax cable between the Converter output port 1 and SDI receiving apparatus (such as SDI monitor and DVR) connected
3. Connect one 75Ω RG-6U Coax cable between the Converter converter output port 2 and

- SDI receiving apparatus (such as SDI monitor and DVR) connected
4. Connect the included DC12V/1A power adapter to Converter
 6. Turn on the power switch.



- ① RESET: Restore configuration,
- ② INFO: Display the current input signal information
- ③ AUTO: Menu to navigate to the Video Source select Optional state
- ④ UP: Menu selection to move up
- ⑤ LEFT: Menu selection to move left
- ⑥ Right: Menu selection to move Right(Confirm the selection press the right key)
- ⑦ Down: Menu selection to move Down
- ⑧ HDMI: Select the HDMI signal input
- ⑨ VGA: Select the HDMI signal VGA
- ⑩ AV: Select the HDMI signal AV(CVBS)

Note: Confirm the selection press the right key

K1/K2:DIP Switch Function

K1	K2	SDI OUT PUT
OFF	OFF	Fit Input
ON	OFF	1920X1080p 30HZ
OFF	ON	1280X720p 60HZ
ON	ON	1920X1080p 60HZ

Technical Specifications

Model	HDMI&VGA/AV to SD/HD/3G-SDI Converter
HDMI Input	1x HDMI
VGA Input	1x VGA
AV (CVBS) Input	1 x BNC -F
Input Signal Type	HDMI/VGA/AV(CVBS)
SDI Signal Range	0.8V p-p
SDI Impedance	75 ohms
SDI Coupling Type	AC Coupling
Max. Output Coax Length	Belden 1694A SD-SDI 400m / 1300ft ; HD-SDI 200m / 600ft ;
SDI Out Interface	2x BNC SDI
SDI Out Format	Fit input Forced Output: 576i,720p/30/50/60 , 1080p/25/30,1080i50/60,1080p50/60
Power Supply	5V~12V DC
Power Consumption	3~6 Watts
Operating Temperature	-10°C ~ 60°C / 14°F ~ 140°F
Storage Temperature	-30°C ~ 70°C / -22°F ~158°F
Relative Humidity	20~90% RH (Non-condensation)
Dimension	158 x 120x 36 mm / 6.22 x 4.72 x 1.42 inches
Weight	300g

*Specifications are subject to change without notice

Key Components

Components Made in USA for this product:

Name of Component	Manufacturer
<i>Multi-Rate SDI Adaptive Cable Equalizer</i>	<i>Gennum</i>
<i>Multi-Rate SDI Automatic Reclocker</i>	<i>Gennum</i>
<i>Multi-Rate Dual Slew-Rate Cable Driver</i>	<i>Mindspeed & Gennum</i>
<i>SDI SPD</i>	<i>Bourns</i>
<i>HDMI ESD Protection</i>	<i>Semtech</i>

Components Made in Taiwan for this product:

Name of Component	Manufacturer
<i>DC/DC Converter</i>	<i>Richtek</i>

*Key components are listed by the manufacturer and are subject to change without notice