

User Manual

SD/HD/3G-SDI to HDMI & VGA & AV Converter



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

Our SD/HD/3G-SDI to HDMI & VGA & AV Converter is designed to convert one channel HD-SDI video source to HDMI &VGA & AV displays simultanously. It integrates SDI Cable equalizer and re-clocker and cable driver to enhance video performance and stability.

It supports multiple resolution up to 1920x1080@60HZ and supports the most popular resolutions to ensure high compatibility with wide brands of PC and HDTV. It provides cheaper solution to connect HD-SDI to HDTV and VGA terminal.

Features

- Support all type SDI resolution:
 SMPTE424M, SMPTE292M, SMPTE259M-C.
- Carry 1 channel SDI signal loop out.
- Automatically detect the HDMI EDID information adaptive HDMI best mode Support all formats asymmetric conversion
- The signal lost blue screen warning
- VGA output support 10 main resolutions
 Automatically embed SDI audio signal to HDMI signal.
- User selectable output format (HDMI and VGA and AV)
- Intelligent adaptation of PAL / NTSC Support independent stereo audio output

Package Contents One (1) SDI to HDMI Convertes One (1) User Manual One (1) AC Adapter One (1) IR remote control 2.

with original packaging in Resalable Condition. Absolutely No Retu be accepted if any component is missing/damaged. Parts & Functions

120 Converter Top

- 5-24V DC : Suggest DC 12V,1A Plug in
- 2. IR : Ir control
- Led indicator : PWR /lock/RUN

Right Panel: 6.HDMI out 7.VGA out

9. Audio output (Audio speaker)

5. SDI In, SDI loopback

ed indicat	gor:			
Name	Color	Status	Description	
LOCK	Green	ON	SDI signal in	
		OFF	Do not detect SDI signal in	
Run	Green	Flicking	Device is normal	
		OFF	Device is not normal	
POWER	RED	Flickering	Power on	
		OFF	Power off	-

K1/k2 Dip Switch

Please read the Manual before attempting to use this product. Specifications and appearance are subject to change without notice.



CAUTION OF ELECTRIC S 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).

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 shep where you purchased the product.

Caution

X

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 hand-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°C^40°C/32°F~104°F.

3. Check the power source voltage

4. Objects and liquid entry

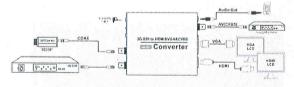
Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

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

Do not attempt to service this product by yourself as ope hazards. Refer all service to qualified servicing personnel



Application Diagram



Hardware Installation

Check the power supply configuration and connect the correct voltage according to the power supply input requirements.
 Use the standard SDI coaxal cable and connect the SDI source to SDI input ports.

3. Use SDI coaxial cable, VGA cable, HDMI cable and connect the AV, VGA ,HMDI ,SDI output port with the display equipme 4.Turn on the power switch

Note: This device only support to output two kind signals simultaneously nor Three kinds of HDMI signal and AV signal or HDMI signal and VGA signal ect

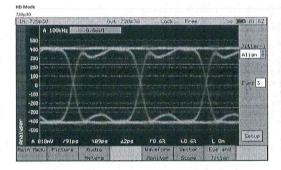
Specifications

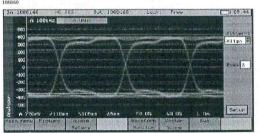
Model	SD/HD/3G-SDI to HDMI &VGA& AV converter	
Input Interface	1x BNC SDI	
Input Signal Type	SD-SDI (270Mbps), HD-SDI (1.485Gbps), 3G-SDI (2.97Gbps)	
	SD: 525i @ 59.94Hz, 625i @ 50Hz HD: 720p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz	
Support Input Format	720p @ 50Hz / 59.94Hz / 60Hz 1080i @ 50Hz / 59.94Hz / 60Hz 1080p @ 23.98Hz / 24Hz / 25Hz / 29.97Hz / 30Hz	
SDI Signal Range	0.8V p-p	
SDI Impedance	75 ohms	
SDI Coupling Type	AC Coupling	
Max. Input Coax Length	Belden 1694A SD-SDI 400m / 1300ft; HD-SDI 200m / 600ft; 3G-SDI 140m / 450ft	
SDI Loop Out	1x BNC SDI	
HDMI/DVI Output	1x HDMI 1. 3	
HDMI format	480i/p,576i/p,720p50/60,1080p25/30,1080i50/60, 1080p50/60	
Frequency Bandwidth	standard with HDCP :HDMI 1.3	
VGA Output	1x VGA	
VGA format	640*480@60Hz、800*600@60Hz、1024*768@60Hz、 1280*720@60Hz、1280*1024@60Hz、1360*768@60Hz 1440*900@60hz,1600*1200@60Hz、1680*1050@60Hz 1920*1080@60Hz	
AV(CVBS) output	1 x BNC -F	
AV format	PAL and NTSC	
Audio output	1x3.5mm audio socket	
Power Supply	5V~24V 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	156 x 100x 36 mm	
Weight	300g	

Key Components

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

Components Made in Taiwan for this product:
Name of Component Manufacturer
OC/DC Converter Richtek





1080p 30

IR Remote Control
IR remote controller is used to control output format



A. Firstly press red button 'Power' to start management interface

Acrosing press real batton in rower to start management interrate
As Secondly press 'power' to restore defaults et of our device
B. Then press 'Menu'to show main OSD menu on monitor
It will show manual functions e.f. I/P scan method , VGA format, HDMI format and AV format, Lang

480i/50 576i/60

\$76/60
480y/50
576p/50
720p@\$05/60
1080 @\$05/60
1080 @\$25/30/50/60
To execute by UP
And press the key of 'Menu' to enter or ensure
C: PICTURE: Menu to select output
D: FREZE: Display current input signal
ESIMPUT : Show imput source
Eve_Diagram

F:HDMI : Select HDMI signal as input source G:VGA : Select VGA signal as input source H: AV : Select AV signal as input source

Eve Diagram SD Mode 525i59

