

Full HD
1080

User Manual

HDMI to SD/HD/3G-SDI Converter



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

HDMI to SD/HD/3G-SDI Converter is mainly used in converting one channel high-definition multimedia interface (HDMI) signal to high-definition serial digital component interface (HD-SDI) signal. The device integrates SDI transmitter and HDMI demodulator, and after separate and convert HDMI audio signal, then embed to HD-SDI signal, and achieve the sound and image synchronization transmission.

Features

- Support Cascade function in Transmitter and Receiver and easy to build a network system by installer.
- Maintains highest HDMI single link video resolution 1080P@30Hz/60Hz.
- Support full HDMI audio and video.
- Easy to install and simple to use.
- Power supply and SDI signal format indicator



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°C~40°C / 32°F~104°F.

3. Check the power source voltage

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

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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

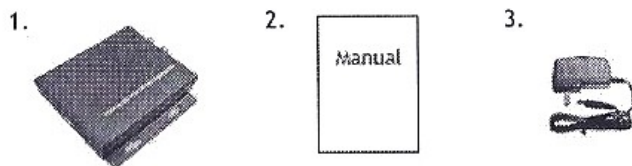
Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

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.

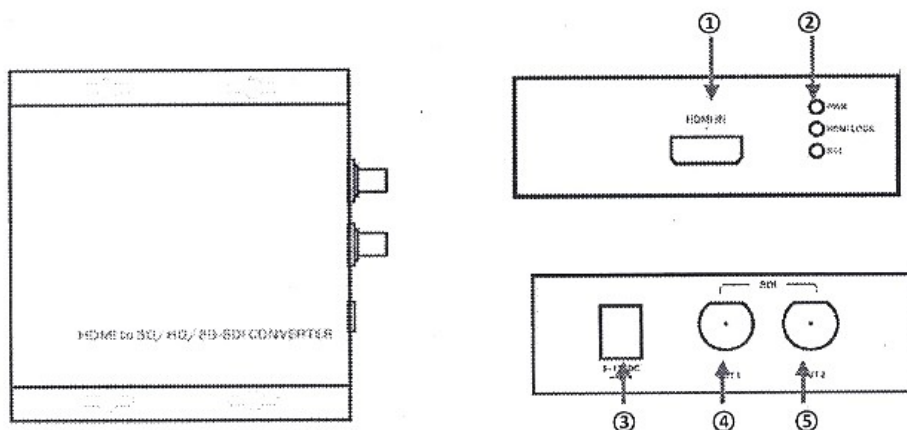
Package Contents

1. One (1) SDI to HDMI Converter
2. One (1) User Manual
3. One (1) AC Adapter
4. One (1) Remote controller



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



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- ① HDMI IN: Connect the HDMI display
 - ② STATUS LED: Power ,HDMI and SDI Indicator LED
 - ③ 5~12V DC: 5~12V DC Power input port
 - ④ SDI OUT1: SDI Output port 1, Connected to a SDI display or SDI receiver
 - ⑤ SDI OUT2: SDI Output port 2, Connected to a SDI display or SDI receiver
- Note: SDI OUT 1 and SDI OUT 2 is the same signal output

Name	Color	Status	Description
PWR	Green	ON	Power source hasn't been connected.
		OFF	Power source hasn't been connected.
HDMI LOCK	Green	ON	HDMI signal is active status.
		OFF	HDMI signal is inactive status.
SDI	Green	ON	SDI signal output normal.
		OFF	SDI signal output is not normal

Application Diagram

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



Hardware Installation

Hardware Installation ..

1. Connect the HDMI source device to our HDMI to SDI converter unit using the supplied HDMI cable.
2. Connect one 75Ω RG-6U Coax cable between the output port of our converter and input port of number 1 SDI display or SDI receiver
3. Connect one 75ΩRG-6U Coax cables between the cascade port of our HDMI to SDI converter and input port of number 2 SDI display or SDI receiver
4. Connect the included DC12V/1A power adapter to our device
6. Turn on the power switch.

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Hardware Installation

Model	HDMI-SD/HD/3G-SDI Converter
Input Interface	1x HDMI
Frequency Bandwidth	225MHz/ up to standard with HDCP (HDMI 1.3)
Support Input Format	480i,576i,720p@50/60,1080i@50/60,1080p@25/30,1080p50/60
SDI Out Interface	2x BNC (SD-SDI/HD-SDI/3G-SDI)
SDI Signal Range	0.8V p-p
SDI Impedance	75 ohms
SDI Coupling Type	AC Coupling
SDI signal jitter (typical value)	SD-SDI ≤ 0.1 UI HD-SDI ≤ 0.2 UI 3G-SDI ≤ 0.4 UI
Power Supply	12V DC ,1A / Locking Power Connector
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	135x 113 x 25 mm / 5.31 x 4.45 x 0.98 inches
Weight	320g

*Specifications are subject to change without notice

Key Components

Components Made in USA for this product:

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
DC/DC Converter	Richtek

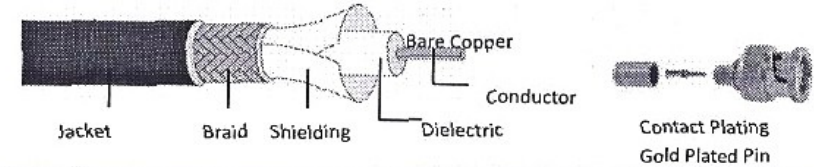
*Key components are listed by the manufacturer and are subject to change without notice



IMPORTANT NOTE: Cable & Connector for SDI HD Camera

In order to achieve the **Best Quality** and **Long Range** coax cable run of up to 200m / 600ft, you will need:

- 1. Good Quality Cable:** We suggest using RG6 Belden 1694A **Low Loss Serial Digital** coax cable because RG6 cables have better grounding than RG59 cables. RG6 is for Digital Signal and RG59 is for Analog Signal.
- 2. Good Quality BNC Connectors:** Contact Plating Gold plated pins provide exceptional conductivity.
- 3. Good Quality Installation:** Do not over cut the braid because it will affect the grounding. The image will have lines and noise.



Limited Warranty

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. **This warranty is voided if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year.**

Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation. The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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