

Usei Manuai

SD/HD/3G-SDI to HDMI Converter



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

SD/HD/3G-SDI to HDMI Converter is used in converting one channel SDI signal to HD SUPPOISES DITED HOMIC Converter is used in converting one channel SDI signal to HD Multimedia HDMI signal, it integrates SDI transmitter and HDMI demodulator which expediently converts SDI signal to HDMI signal, separate and convert the sound signals of SDI, and then embed to HDMI signal, to achieve the video and sound transmission synchronously. This equipment has one channel loopback function in SDI signal output, User can monitor camera's situation in this locality.

Features

- Support SDI input format: 480i, 576i, 720p50/60, 1080p24/25/30, 1080i 50/60,
- Support SMPTE 425M, SMPTE424M, SMPTE292M, SMPTE259M-C.
- Carry 1 channel SDI signal loop out.
- Max. cable length (Belden 1694A): SD-SDI 400m, HD-SDI 200m, 3G-SDI 50m Automatically embed SDI audio signal to HDMI signal.

www.cablematic.com

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. Servicina

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

Package Contents

- One (1) SDI to HDMI Converter One (1) User Manual
- One (1) AC Adapter



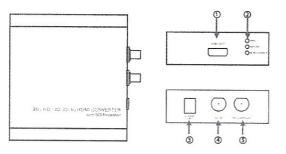






For any returns, please include all components listed above with original packaging in Resalable Condition. Absolutely No Returns will be accepted if any component is

Parts & Functions



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.



1. Handle this product with care

National tribs product. Main 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).

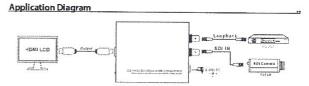
2

- HDMI OUT: Connect the HDMI display
 STATUS LED: Power ,HDMI and SDI Indicator LED
 5~12V DC: 5~12V DC Power input port
 SDII N: Connect to the HD Camera or HD video source
 SDI LOOPBACK: Local loopback connect the monitor or DVR

Name	Color	Status	Description
PWR	Green	ON	Power source hasn't been connected.
		OFF	Power source hasn't been connected.
SDILOCK	Green	ON	SDI signal is active status.
		OFF	SDI signal is inactive status.
HDMI CONNECT	Green	ON	HDMI display hasn been connected.
		OFF	HDMI display hasn't been connected.

^{*}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 HD Camera



Hardware Installation

- Connect the SDI source device to the Converter unit SDI IN using the $75\Omega Coax$ cable.
- 2. Connect one 75Ω RG-6U Coax cable between the loopback port of Converter and input port of receiver unit(eq.DVR,Display)
- Connect the HDTV display HDMI input port to the Converter HDMI Out using a
- Connect the Included 12V/1A power adapter to Converter
- Turn on the power switch.

Model	SD/HD/3G-SDI to HDMI Converter					
Input Interface Type	1x BNC SDI					
Input Signal	SD-SDI (270Mbps), HD-SDI (1.485Gbps), 3G-SD					
Support Input Format	(2.07.6 bes) 50: 5251 @ 59.94 Hz, 6251 @ 50 Hz HD: 720p @ 50 Hz /60 Hz 10801 @ 50 Hz //60 Hz 1080p @23.98 Hz/24 Hz/25 Hz/29 Hz/30 Hz 3G:1080p @ 50 Hz /60 Hz					
SDI Signal Range	0.8V p-p					
SDI Impedance	75 ohms					
SDI Coupling Type	AC Coupling					
SDI Loop Out Interface	1x BNC SDI					
HDMI/DVI Output Interface	1x HDMI					
Power Supply	5~12DC					
Power Consumption	3~6 Watts					
Operating Temperature	32°F~104°F/0°C~40°C					
Relative Humidity	20~90% RH (Non-condensation)					
Dimension	112×117×25mm/4.40×4.46×0.98in					

*Specifications are subject to change without

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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	
SDISPD	Bourns	
HDMI ESD Protection	Semtech	
Micro Controller Unit	Texas Instruments	

Components Made in China for this product:

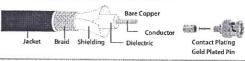
Name of Component	Manufacturer	
DC/DC Converter	Richtek	

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



In order to achieve the Best Quality and Long Range coax cable run of up to

- 1. Good Quality Cable: We suggest using RG6 Belden 1694A Low Loss Serial <u>Digital</u> 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.
- 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 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 of 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

including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or fallure to perform this warranty obligation. The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.