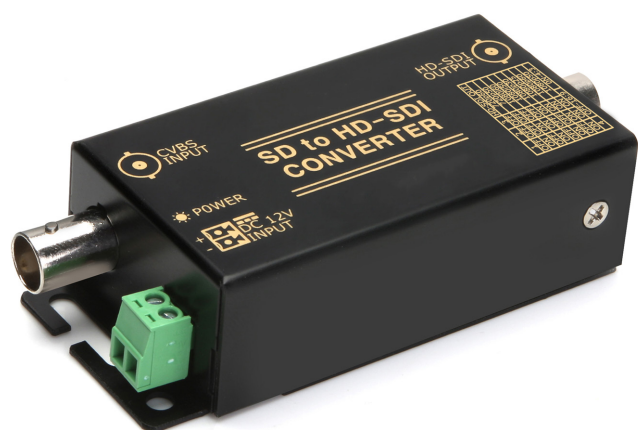




MODEL: SDI05

Single Channel Composite to
HD-SDI Converter

User Manual



Precautions and Safety Guidelines

Please read this user manual thoroughly prior to using this product

- Do not install the product in places having extremely low or high temperature conditions, those exposed to rain, snow, or high humidity, places containing or exposed to oil and gas, or exposed to vibration, shock, direct sunlight or exposed to outdoor weather conditions. Places exposed to radio waves (RF) or near to power lines. They may cause low performance or a product malfunction.
- Do not disassemble the product or insert foreign objects.
- The unit may pose an electrical shock hazard. Take care not to get an electric shock while using the device.
- Only use safety approved power supply units with electromagnetic compatibility.
- Do not use and/or connect any devices inappropriate to the unit. It may cause a product malfunction or fire.
- Use this product only in the temperature range -10°C to +50°C.
- Prior to turning on the device, check the condition of the data cable insulation connected to external devices.
- Before installing the product, or applying power, check its voltage rating.
- Do not subject the product to physical shocks.
- Do not use the device if smoke or a burning smell is being produced. It may cause a fire. If any smoke or a burning smell is produced, immediately turn the unit off and remove the power cable. Contact your distributor and get the product checked.
- If the power does not turn ON, make sure the power cable is correctly connected.
- If the device does not work properly, please contact your distributor.

Introduction

Overview

A Single Channel Composite to HD-SDI Converter which receives one analogue video signal, converts it to a HD-SDI signal and then outputs the HD-SDI signal; after up-scaling the resolution.

Features

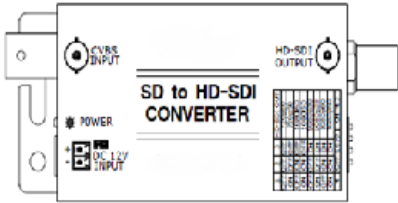


- Converts 1x SD to 1x HD-SDI signal and up-scales the resolution.
- Possible to transmit up to 150m (using RG-6) when the output resolution is set to 1280x720 p50,p60/1920x1080i50, i60, p25, p30, p50 and up to 100m for 1920 x1080p60.
- Transmission distance can be extended using a HD-SDI repeater.
- Video Output Resolution can be selected by the installer (1280x720 p50,p60/ 1920x1080i50, i60, p25, p30, p50, p60).
- Easy installation with various applications.
- HD-SDI DVR's can be used with analogue cameras (hybrid connection).

Applications

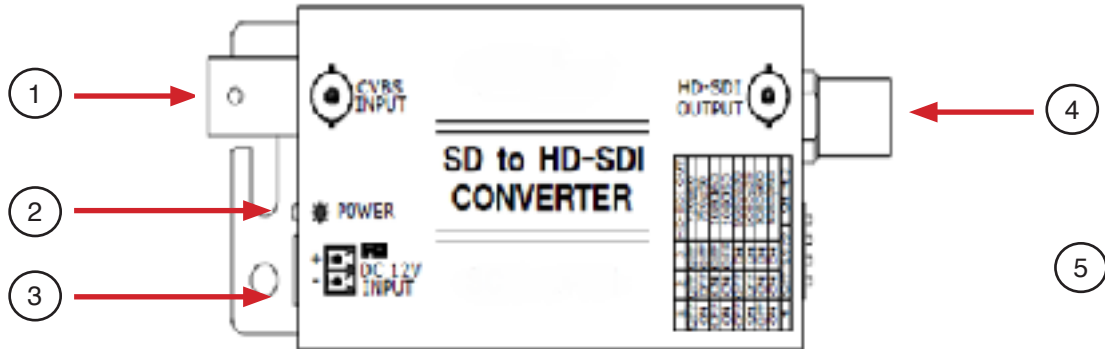
When analogue cameras need to connected to a HD-SDI System (hybrid solution).

Components

The following components are included in the package.

Single Channel SD TO HD-SDI Converter	Adapter	User Manual
 A rectangular electronic device with a metal mounting bracket on the left. It features a 'COMPOSITE INPUT' jack, a 'POWER' input, a 'DC 12V INPUT' port, and an 'HD-SDI OUTPUT' connector. The text 'SD to HD-SDI CONVERTER' is printed on the front panel.	 A grey, rectangular power adapter with a power cord and a DC output cable.	 A small, white, folded document representing the user manual.

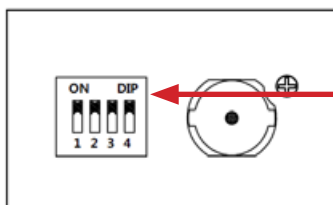
Product Parts & Peripheral Device Connection



- ① **CVBS IN:** Connect to the analogue camera or CVBS video signal.
- ② **POWER LED:** LED ON when power is ON.
- ③ **POWER INPUT:** DC12V Input.
- ④ **HD-SDI OUT:** Connect to HD Monitor or other equipment with a HD-SDI input.
- ⑤ **DIP SWITCH:** To set the HD-SDI Output resolution and Aspect Ratio.

Output Resolution Setup

The Dip switch position is up for ON and down for OFF.



#1	#2	#3	Output Resolution
OFF	OFF	OFF	1280 x 720p60
ON	OFF	OFF	1280 x 720p50
OFF	ON	OFF	1920 x 1080i60
ON	ON	OFF	1920 x 1080i50
OFF	OFF	ON	1920 x 1080p30
ON	OFF	ON	1920 x 1080p25
OFF	ON	ON	1920 x 1080p60
ON	ON	ON	1920 x 1080p50

Use Switch 1,2 and 3 to set the HD-SDI output resolution.

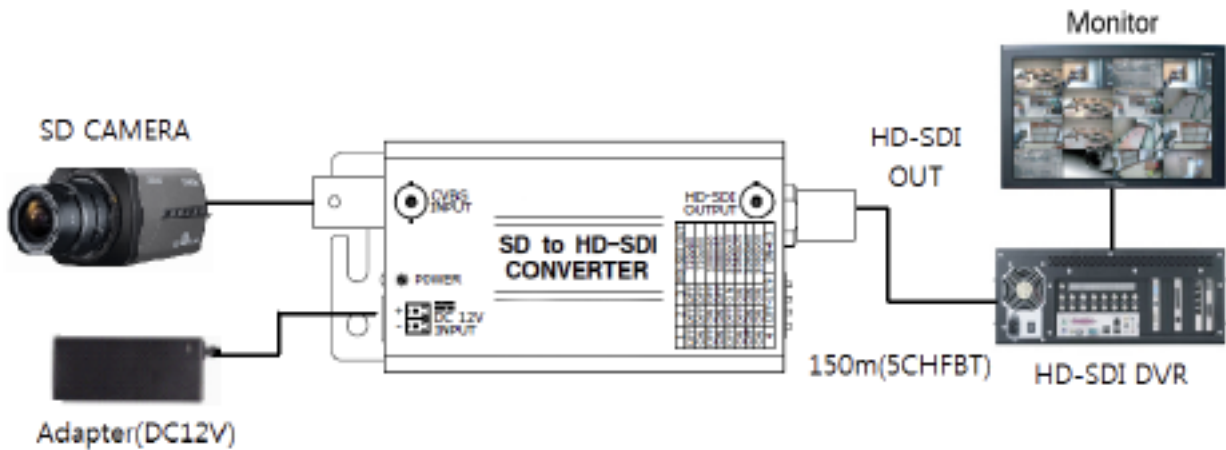
Use Switch 4 to set the Aspect Ratio as either 16:9 or 4:3

Specification

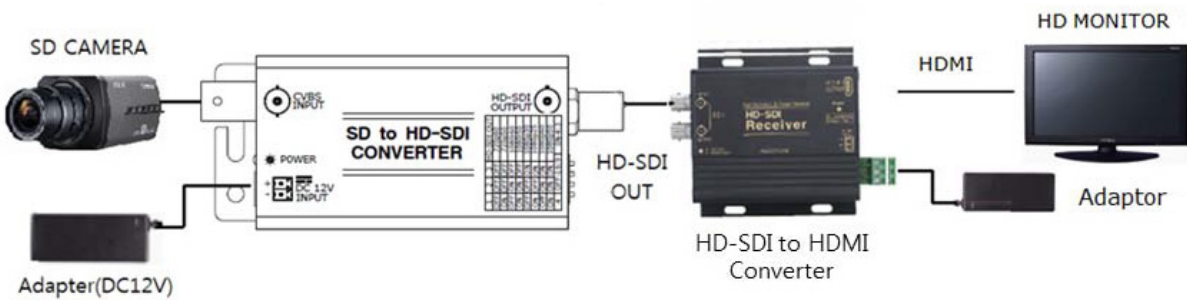
			Single Channel SD TO HD-SDI Converter
VIDEO	INPUT	CVBS	75Ω, 1Vp-p (BNC)
	OUTPUT	HD-SDI (1 CH)	1280x720 (p50, p60) 1920x1080 (i50, i60, p25, p30, p50, p60)
Power Input			2-Pin Terminal Block, DC12V 500mA
Power Consumption			DC12V/140mA
Temperature/Humidity			-10°C ~ +40°C / 0 ~ 80%
Transmission Distance (Using cables for HD-SDI)			1920x1080, 60P: Max. 120m 1920x1080, 30p, 60i: Max. 150m
Screen Format			4:3 Mode 16:9 Mode
Material / Weight			Aluminium / 100g
Dimensions			76(W) x42(H) x 24(D)mm

Connection Diagrams

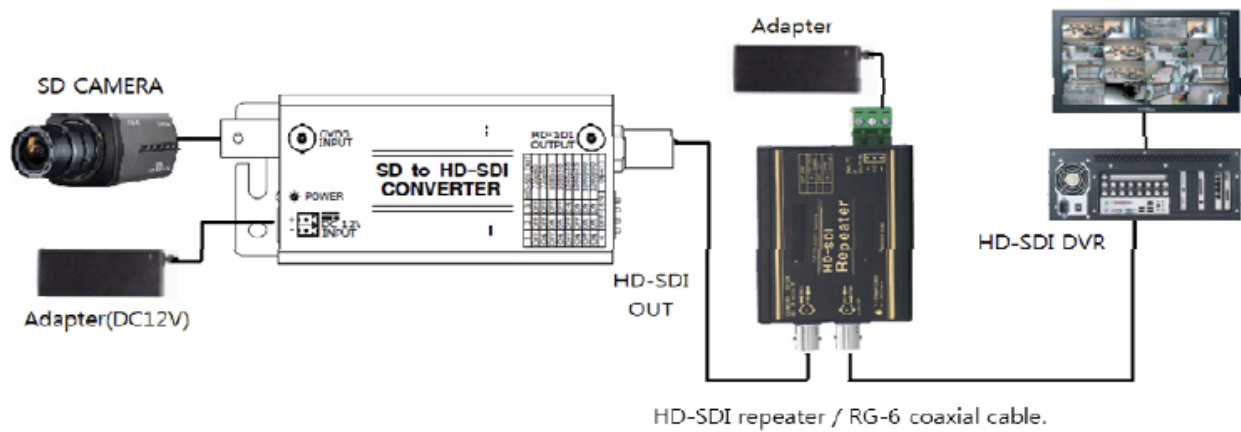
Composite to HD-SDI



Composite to HD-SDI Converter linked to HDMI Converter (Max.150m/RG-6)



Composite to HD-SDI with HD-SDI Repeater (Max. 300m/RG-6)





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