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HDMI® Extender

# **User Manual**

Model: SDI01E-12G

12G-SDI to 4K60Hz HDMI® Compact Converter with Loop Out



#### Introduction

SDI01E-12G is a 12G-SDI to HDMI® 2.0 converter that allows you to monitor 12G-SDI video using a costeffective HDMI® display. This small and compact converter has a built-in SDI loop-out port to send the input SDI signal to an extra SDI device.

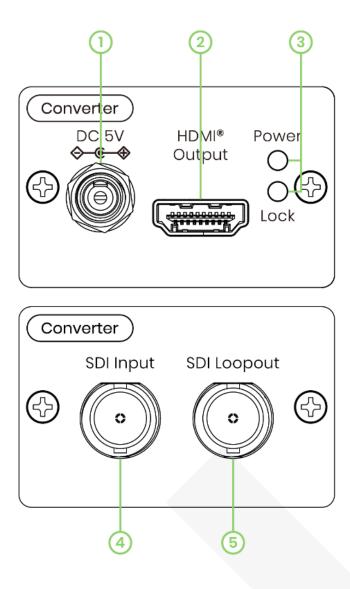
#### Features

- 12G-SDI input compatible with 6G/3G/HD-SDI
- HDMI® output resolution up to 4K60Hz
- The power input is designed with a locking mechanism to prevent pulling or detachment
- Small, compact, easy to install
- Multiple mounting options: Walls, racks, or DIN rails

# **Application Diagram**



## **Panel View**



No	Interface	Description
1	DC Jack (with lock)	To plug in a DC 5V power adapter
2	HDMI® Output	To connect to a monitor or TV
3	Power/Lock LED	Refer to LED Indication (p. 3)
4	SDI Input	To connect to an SDI source
5	SDI Loopout	To connect to an SDI display or digital video switcher

# **LED Indication**

LED Color	LED Status	Description
	On	Power On
Power (Green)	Off	Power Off
	On	SDI signal locked and HDMI® signal ready to transmit
Lock (Blue)	Off	No SDI signal

# Resolution

Resolutions Supported			
SDI Format	HDMI® Format	Frequency	
	4096x2160p	50/59.94/60Hz	
12G-SDI	3840x2160p	50/59.94/60Hz	
	4096x2160p	23.98/24/25/29.97/30Hz	
6G-SDI	3840x2160p	23.98/24/25/29.97/30Hz	
3G-SDI	1920x1080p	50/59.94/60Hz	
	1920x1080p	23.98/24/25/29.97/30Hz	
HD-SDI	1920x1080i	50/59.94/60Hz	
	1280x720p	50/59.94/60Hz	

Notice: Since SDI01E-12G does not support scaling functions, ensure that the HDMI® monitor supports the same resolution as the SDI input format.

#### SDI01F-12G

### Transmission Distance

Condition			
Resolution	Distance (m)	Cable Used	
12G-SDI 4K60 4:2:2 10-bit	50m	Belden 1694A RG-6	

#### Cautions

- 1. This product is designed for indoor applications. If outdoor use is necessary, please additionally install a waterproof protective case and surge protector to prevent damage caused by lightning.
- 2. Do not place any objects on the power or transmission cables, and avoid stepping on all connection cables.
- 3. Do not place this product in damp or high-temperature environments. Avoid nearing water or high-temperature devices such as radiators, stoves, etc.
- 4. Immediately turn off the power and disconnect all connected devices when the following events occur:
  - A. When water or other liquids penetrate the product.
  - B. When the product is damaged due to external force.
  - C. When the product cannot be used normally as described in the manual.
- 5. If any of the above events occur, please contact us for assistance.
- 6. It is recommended to use certified Premium HDMI® cables for high-resolution video transmission.
- 7. It is recommended to use certified coaxial cables for high-resolution video transmission.
- 8. This converter does not support SD-SDI and 3G-SDI level B.
- 9. HDMI® 4K60Hz color depth supports up to 4:2:2 10bit.
- 10. This converter does not support scaling functions. If the input source is detected as 12G-SDI, the HDMI® monitor must support a resolution of at least 4K60Hz.

#### **Package Includes**

Item	Amount
SDI01E-12G	1pc
DC 5V2A Power Adapter	1pc
Mounting Screw pack	1 bag

# **User Manual**

SDI01E-12G

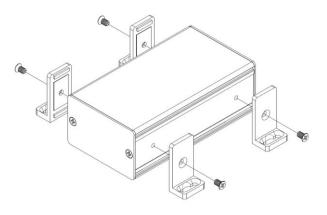
# **Technical Specification**

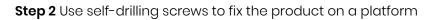
Model	SDI01E-12G	
Compliance		
	12G: SMPTE 2082@11.88 and 11.868Gb/s 4096 x 2160p@60/59.94/50/30/29.97/25/24/23.98Hz 3840 x 2160p@60/59.94/50/30/29.97/25/24/23.98Hz	
	6G: SMPTE 2081@5.94 and 5.934Gb/s 4096 x 2160p@30/29.97/25/24/23.98Hz 3840 x 2160p@30/29.97/25/24/23.98Hz 1920 x 1080p@60/59.94/50Hz	
Input Resolution	3G-A: SMPTE 424@2.97 and 2.967Gb/s 1920 x 1080p@60/59.94/50/30/29.97/25/24/23.98Hz 1920 x 1080i@60/59.94/50Hz 1280 x 720p@60/59.94/50Hz	
	HD: SMPTE 292@1.485 and 1.435Gb/s 1920 x 1080i@60/59.94/50Hz 1920 x 1080p@30/29.97/25/24/23.98Hz 1280 x 720p@60/59.94/50Hz	
	※ Does not support SD-SDI and 3G-SDI level B	
Output Resolution	4096 x 2160p@60/59.94/50/30/29.97/25/24/23.98Hz 3840 x 2160p@60/59.94/50/30/29.97/25/24/23.98Hz 1920 x 1080p@60/59.94/50/30/29.97/25/24/23.98Hz 1920 x 1080i@60/59.94/50Hz 1280 x 720p@60/59.94/50Hz ※ 8/10/12 bit color depth (4K60Hz format max support 4:2:2 10-bit)	
Audio Format	PCM 2CH \ 5.1CH \ 7.1CH	
Ports & Interfaces		
Input	1 x BNC	
Output	1 x HDMI® Type A 1 x BNC	
Power		
Power Supply	DC 5V 2A	
Power Consumption	4.5W	
Power Saving	1W	
Ambient Temperature		
Operation	0 to 55°C	
Storage	-40 to 85°C	
Operating Altitude (Max.)	2000m	
Humidity	Up to 95%	
Physical Characteristics		
Dimension	50 x 93 x 32mm	
Weigh	155g	

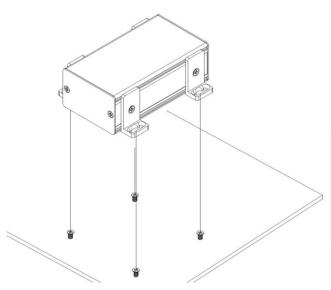
#### Installation Instructions

Install on a Platform

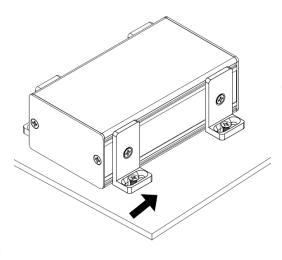
Step 1 Use machine screws to fix the angle brackets on both sides of the product







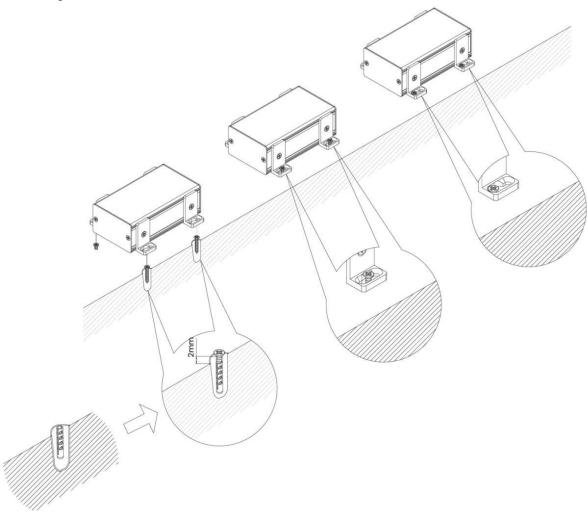
Step 3 Move the product to get fixed and then lock the screws





#### Install on a Wall

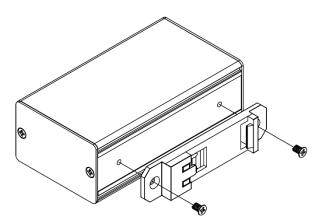
**Step 1** Follow Step 1 in **Install on a Platform** to fix the angle brackets. Use self-drilling screws to fix the product on a wall, leaving a 2mm gap protruding from the surface. Align and attach the angle brackets to the protruding screws



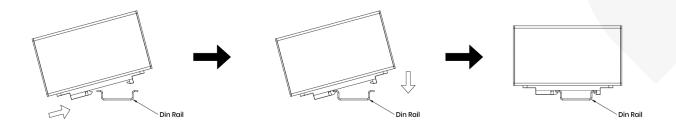


#### Install on a DIN Rail

Step 1 Screw the DIN rail mount onto the side of the product



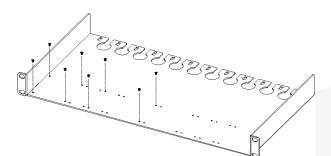
Step 2 Refer to the diagram to mount the product onto the DIN rail



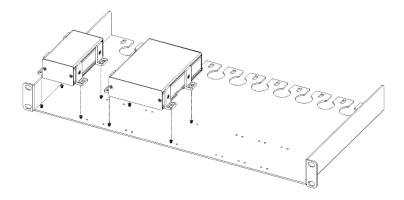
#### Install on a Rack

Step 1 Lock the machine screws onto the rack

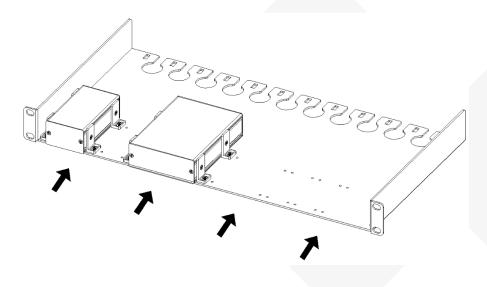
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Step 2 Align and attach the angle brackets on the product to the screws



Step 3 Align the products with the edge of the rack



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Step 4 Install the rack into a cabinet

