

4K HDMI to SDI converter with loop out

OPERATION MANUAL



Dear Customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Notice

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied.

Features

- Support HDMI resolution up to 4K@60Hz YUV4:2:2
- Bandwidth up to 12Gbps
- Support long SDI cable runs up to: 80m for 12G 4k@60hz and 6G 4k@30hz , 120m for 3G 1080p
- Support HDCP2.2/1.4
- 1x HDMI loop out
- Support EDID management: copy EDID or default EDID
- Support PCM2.0 16-24bit, 48KHz audio format
- Support Micro USB port for firmware upgrade

SPECIFICATIONS

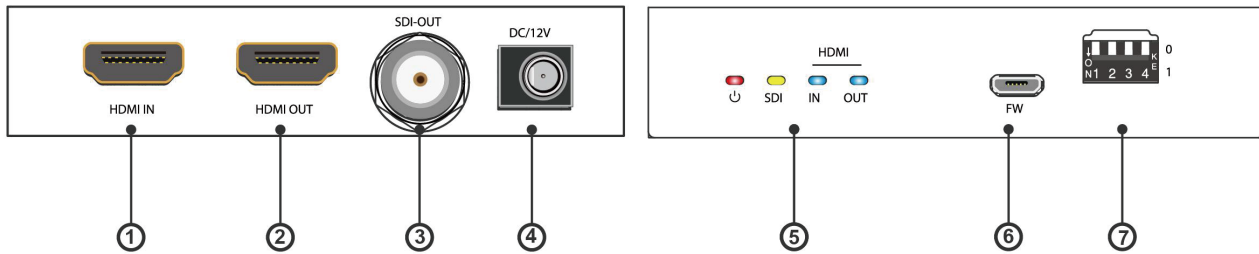
Operating Temperature Range	-5 to +40°C(+23 to +104°F)
Operating Humidity Range	5 to 90%RH (No Condensation)
Input	1x HDMI input
Output	1 x HDMI output 1x SDI output
Resolution supports	4k@60hzYUV4:2:2/ 4k@30HZ/1080p/1080i/720p, etc.. (see page 5)
Audio format supported	PCM2.0 16-24bit 48KHz
Output Video Signal	SDI & HDMI
Dimension (L×W×H)	L94mm×W79mm×H20mm
Power supply	DC 12V/1A
Power consumption	12W(MAX)
SDI cable distance	80m for 12G 4k@60hz and 6G 4k@30hz , 120m for 3G 1080p
Net Weight	182g

NOTE:This is not a bi-directional converter. Do NOT use for SDI→HDMI conversion

Package Contents

- 1 x HDMI to SDI converter
- 1 x 12V/1A DC Adapter
- 1 x User Manual
- 2 x Mounting Ears

PANEL DESCRIPTIONS



- ① HDMI input port
- ② HDMI loop out port
- ③ SDI output port
- ④ DC 12V port
- ⑤ Indicator for power, SDI out, HDMI in/out
- ⑥ Firmware update port
- ⑦ EDID DIP Switch **1**

Note 1: 4 PIN EDID DIP Switch: The converter has default EDID and copy EDID:

Default EDID including 4K@60hz, 4K@30hz, 1080P@60hz and 720P@60hz.

Copy EDID: to copy loop out TV.

Up dial stands for 0, down dial stands for 1, different digits combination has different EDID effect according to the following table:

0000	Default 4K@60Hz 2CH
0001	Default 4K@30Hz 2CH
0010	Default 1080P@60Hz 2CH
0011	Default 720P@60Hz 2CH
0100	Copy EDID from loop out display: with storage function, no power off memory function; in case power off, will be recovered to default 4K@60Hz
0101	Copy EDID from loop out display: with storage function and power off memory function ^①
Others	Unnamed: reserved without function

Note 1 :connect display to HDMI loop out firstly, this EDID will be saved automatically after dial dip switch to 1000; last duplicated EDID can be used when dip switch is dialed to 0101.

Previous EDID can be covered by same operation.

Input resolution supported

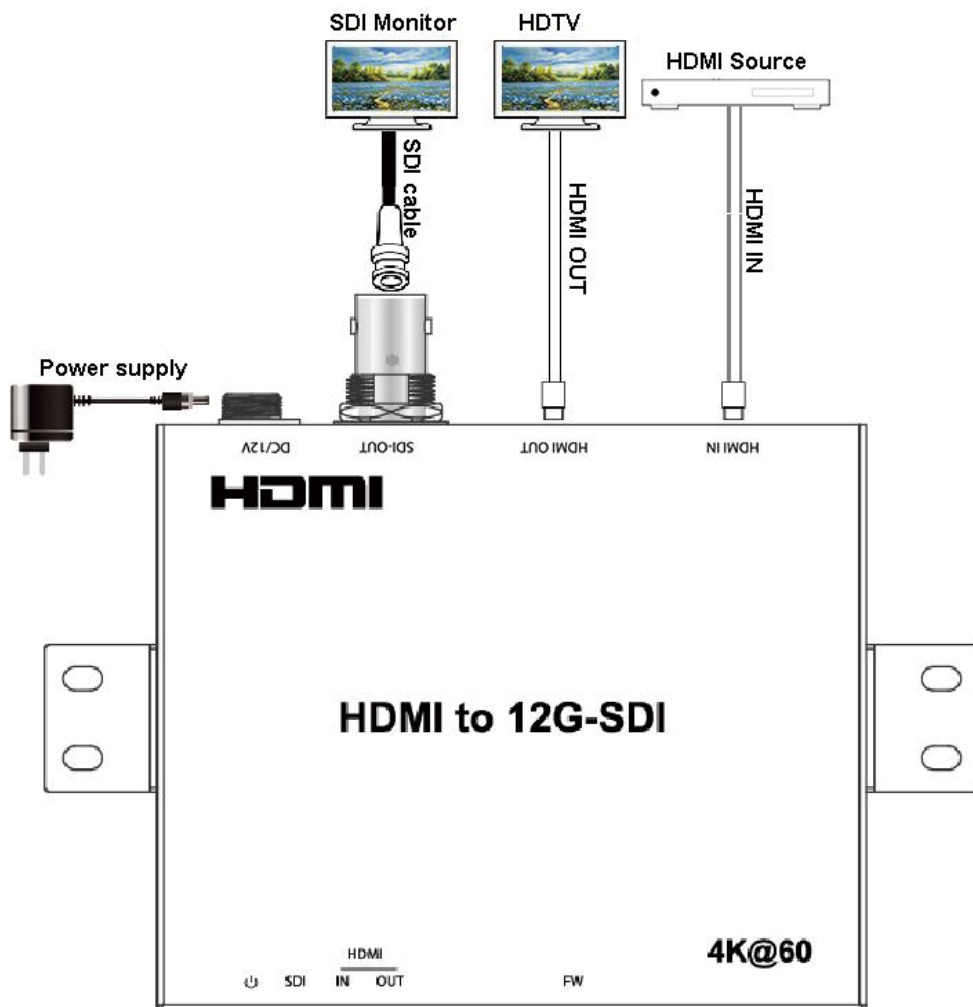
Fresh Rate	I/P	Resolution	Support
50Hz (8BIT)	P	720P	√
	P	1080P	√
	I	1080i	√
	P	4K2K	√
60Hz/59.94Hz (8BIT)	P	720P	√
	P	1080P	√
	P	4K2K	√
30Hz/29.97Hz (8BIT)	P	720P	√
	P	1080P	√
	P	4K2K	√
24Hz (8BIT)	P	1080P	√
	P	4K2K	√
25Hz (8BIT)	P	720P	√
	P	1080P	√
	P	4K2K	√

Connecting and operating

1. Power off all devices including your HDMI source, HDMI display and SDI display
2. Connect HDMI source such as a Blu-Ray Player, game console, STB, etc. to the HDMI input with HDMI cable
3. Connect HDMI display such as an HDTV or HD Projector to HDMI loopout with HDMI cable
4. Connect SDI monitor or other SDI device to SDI output with SDI cable
5. Power on the converter firstly, then power on the source and sink.

Attention: Insert/Extract cable gently

Connection Diagram



MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

PRODUCT SERVICE

1) **Damage requiring service:**

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;
- (e) The unit has been dropped or the cabinet damaged.

2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

WARRANTY

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor") will, for the length of the period indicated as below, **(Parts(2)Year, Labor(90) Days)** which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" Limited Warranty period there will be no charge for labor.

During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

MAIL-IN SERVICE

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

LIMITED WARRANTY LIMITS AND EXCLUSIONS

- 1) This Limited Warranty **ONLY COVERS** failures due to defects in materials or workmanship, and **DOES NOT COVER** normal wear and tear or cosmetic damage. The Limited Warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.
- 2) **THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)
- 3) **PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.**