

SDI to HDMI Scaling Converter

SC1120



SC1120 is an exquisite and professional converter to convert SDI signal to HDMI and AV signals at the same time. The format of the output can realize pass through or up/down scaling and frame rate conversion. De-interlacing function and seamless conversion can also be supported to avoid jitter. It also features AES/EBU or analog audio embedding and de-embedding. All the functions can be easily set by a built-in DIP switches or PC via micro USB. SC1120 is your ideal choice for broadcasting and AV post production applications.

Connections

SDI Video Input

1×SD/HD/3G-SDI(75Ω BNC)

HDMI Video Output

1×HDMI type A

AV Output

1×8" (3.5mm) jack

SDI Redundant Input

Automatically switches over if main SDI input is lost.

AES/EBU Digital Audio Input

1× 1/4" (6.35mm) TRS jack

AES/EBU Digital Audio Output

1× 1/4" (6.35mm) TRS jack

SDI Video Loop Output

1×SD/HD/3G-SDI

Analog Audio Input

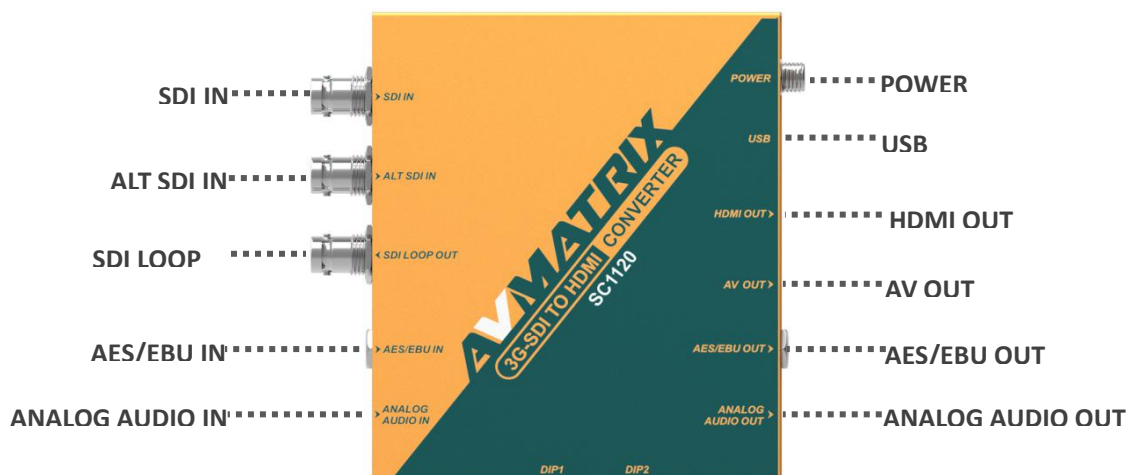
1×8" (3.5mm) jack

Analog Audio Output

1×8" (3.5mm) jack

Updates and Configuration

Micro USB



Standards

SDI Input Format Support

1080p 60/59.94/50
1080p 30/29.97/25/24/23.98
1080PsF 30/29.97/25/24/23.98
1080i 60/59.94/50
720p 60/59.94/50
720p 30/29.97/25/24/23.98
625i 50
525i 59.94

SDI Auto Switching

Automatically detects SD, HD and 3G-SDI

SDI Video Rate

SD/HD/3G-SDI

SDI Compliance

SMPTE 292M, SMPTE 259M,
SMPTE 424M, SMPTE 352M,
SMPTE 296M

SDI Color Space and Precision

YUV 4:2:2

AV Output Format Support

NTSC, PAL

HDMI Output Format Support

1080p 60/59.94/50
1080p 30/29.97/25/24/23.98
1080i 60/59.94/50
720p 60/59.94/50
720p /30/29.97/25/24
576i 50
480i 60/59.94

HDMI Color Space and Precision

RGB 4:4:4
YUV 4:2:2
YUV 4:4:4

Power

Power

Threaded locking connector

Power Consumption

6W

Voltage Range

DC 6-24V

Physical Specifications

Dimension

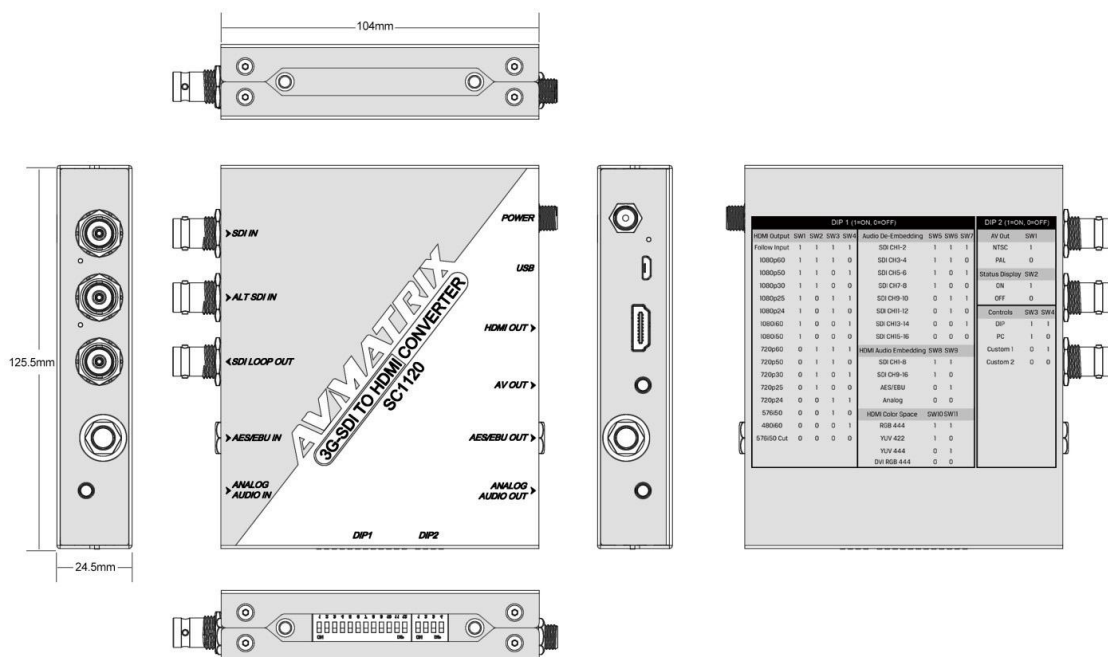
125.5×104×24.5mm

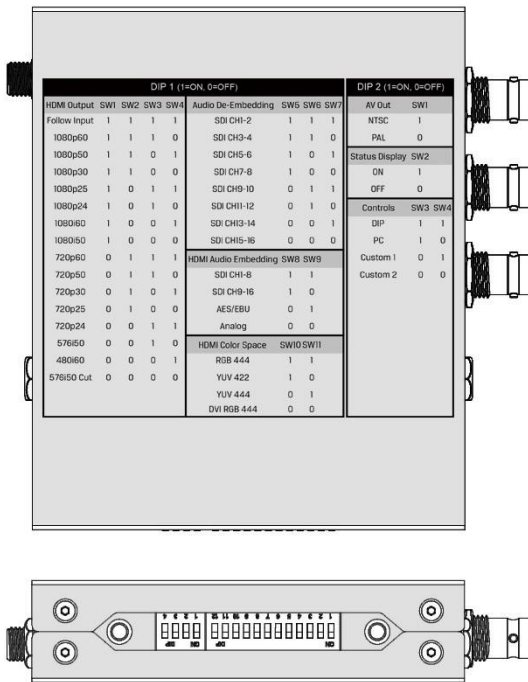
Net Weight

465g

Gross Weight

1250g





Dip Switches

SDI to HDMI Scaling Converter's Dip Switches provide the following settings (1=ON, 0=OFF):

1. DIP1 SW 1-4 - Up/Down Scaling and Frame Conversion

Set switches to realize pass through or up/down scaling and frame rate conversion at HDMI output.

HDMI Output	SW1	SW2	SW3	SW4
Follow Input	1	1	1	1
1080p60	1	1	1	0
1080p50	1	1	0	1
1080p30	1	1	0	0
1080p25	1	0	1	1
1080p24	1	0	1	0
1080i60	1	0	0	1
1080i50	1	0	0	0
720p60	0	1	1	1
720p50	0	1	1	0
720p30	0	1	0	1
720p25	0	1	0	0
720p24	0	0	1	1
576i50	0	0	1	0
480i60	0	0	0	1
576i50 Cut	0	0	0	0

2. DIP1 SW 5-7 - Audio De-Embedding

Set switches to de-embed any pair of SDI 16-channel audio to the AES/EBU and Analog audio output.

3. DIP1 SW 8-9 - HDMI Audio Embedding

Set switches to embed audio from SDI CH1-8, SDI CH9-16, AES/EBU or Analog audio input to HDMI signal.

4. DIP1 SW 10-11 - HDMI Color Space

Set switches select a color space for HDMI output from RGB 444, YUV 422, YUV 444 or DVI RGB 444.

5. DIP2 SW 1 - AV Out

Set switch to select a type of AV from NTSC or PAL.

6. DIP2 SW 2 - Status Display

Set switch to ON or OFF the status display overlay. Such as showing the information of input and output format, audio embedding or de-embedding status on the screen.

7. DIP2 SW 3-4 - Controls

Set switches to active the custom settings which are user defined and saved via PC software.

Environmental Specifications

Operating Temperature

-20°C~60°C

Storage Temperature

-30°C~70°C

Relative Humidity

0%~90% non-condensing

What's Included

SC1120 (3G-SDI to HDMI Scaling Converter)

2pcs Mounting Brackets

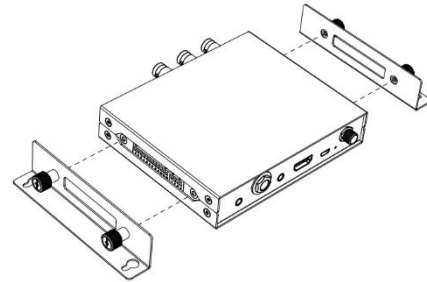
DC 12V Universal Power Supply with International Socket Adapters

USB Cable

AV Cable (RCA)

Technical Specifications

Mounting Diagram



Warranty

3 Year Limited Manufacturer's Warranty

✧ Note: due to constant effort to improve products and product features, specifications may change without notice.