



# HDMI & AV to SDI Scaling Converter

CB-2022



CB-2022 is an exquisite and professional converter to convert HDMI or AV signals to triple SDI signals up to 1080p60Hz. The format of the output can realize pass through or up/down scaling, frame rate conversion and de-interlacing function. 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. CB-2022 is your ideal choice for broadcasting and AV post production applications.

## Connections

### HDMI Video Input

1×HDMI type A

### AES/EBU Digital Audio Input

1× 1/4" (6.35mm) TRS jack

### AES/EBU Digital Audio Output

1× 1/4" (6.35mm) TRS jack

### AV Input

1× 3.5mm jack

### Analog Audio Input

1× 3.5mm jack

### Analog Audio Output

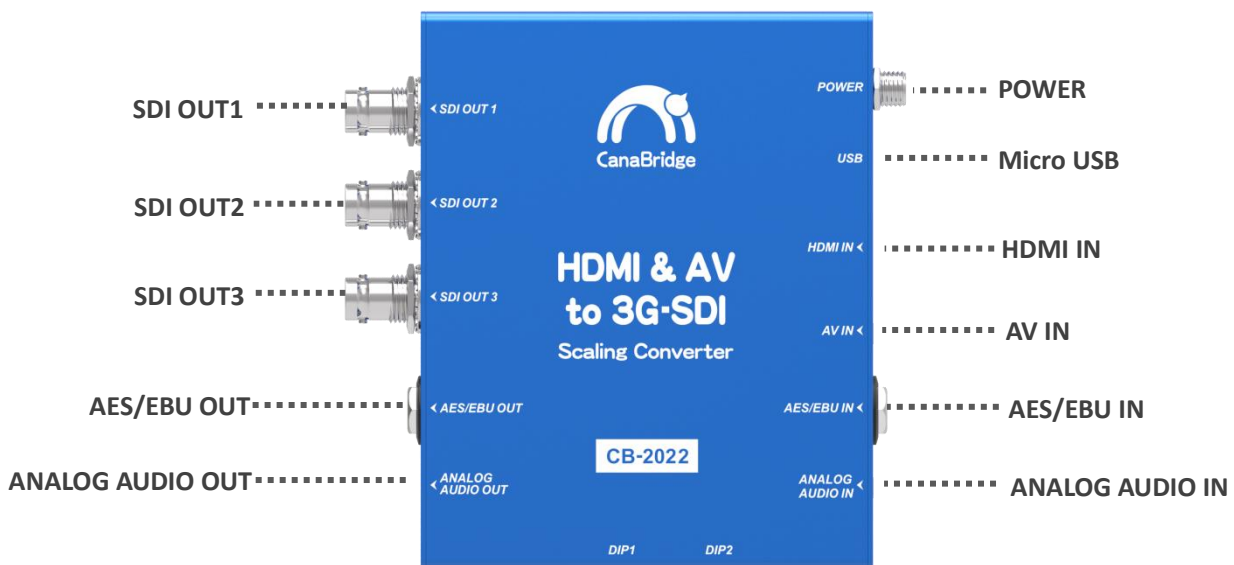
1× 3.5mm jack

### SDI Video Output

3 × SD/HD/3G-SDI(75Ω BNC)

### Updates and Configuration

Micro USB



## Functions and Standards

### HDMI Input Format

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

### HDCP

Signal with HDCP doesn't pass through

### HDMI Color Space and Precision

RGB 4:4:4, YCbCr 4:2:2, YCbCr 4:4:4

### SDI Output Format

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

### SDI Standard

SMPTE ST 259,  
SMPTE ST 292-1,  
SMPTE ST 424

### SDI Color Space and Precision

YCbCr 4:2:2

### SDI Video Rate

SD/HD/3G-SDI

### AV Input Format Support

NTSC, PAL

### Analog Audio input

5dBu (Max)

### Analog Audio output

0dBu (Max)

## Power

### Power

Threaded locking connector

### Power Consumption

6W(Max)

### Voltage Range

DC 6-15V

## Physical Specifications

### Dimension

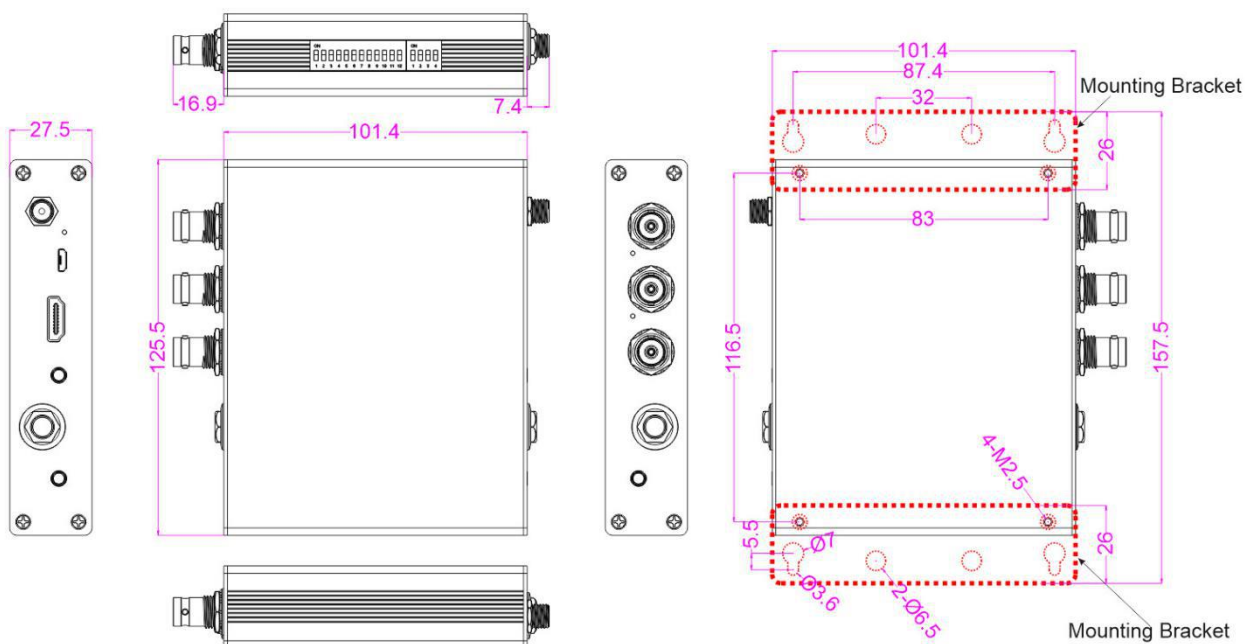
125.5×101.4×27.5mm

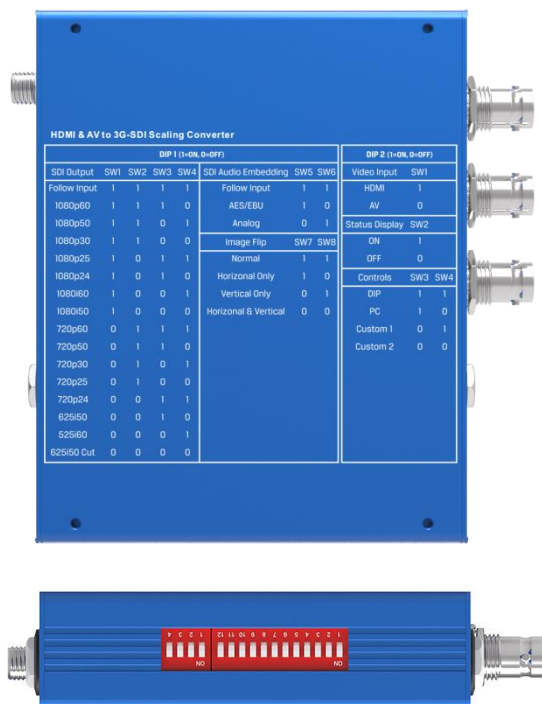
### Net Weight

310g

### Gross Weight

995g





## Dip Switches

CB-2022'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 SDI output.

SDI 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
625i50	0	0	1	0
525i60	0	0	0	1
625i50 Cut	0	0	0	0

\*Output format of 23.98/29.97/59.94Hz can be set by PC software.

### 2. DIP1 SW 5-6 - SDI Audio Embedding

Set switches to realize embedding audio from input (HDMI/AV), AES/EBU, or Analog audio to SDI output.

### 3. DIP1 SW 7-8 - Image Flip

Set switches to realize the all modes of image flip, including Normal mode, Horizontal Only, Vertical Only, and Horizontal & Vertical mode.

### 4. DIP2 SW 1 - Video Input

Set switch to select the input from HDMI or AV. Then you can use it to convert HDMI signal to SDI, or AV signal to SDI.

### 5. 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 status on the screen.

### 6. 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**

0°C~40°C

**Storage Temperature**

-30°C~70°C

**Relative Humidity**

0%~90% non-condensing

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## What's Included

CB-2022 (HDMI & AV to 3G-SDI Scaling Converter)

Mounting Brackets with 4 screws (15g/2pcs)

DC 12V Universal Power Supply with 5 International Socket Adapters

USB Cable (150cm)

AV Cable (RCA)

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Note: Specifications are subject to change without notice.