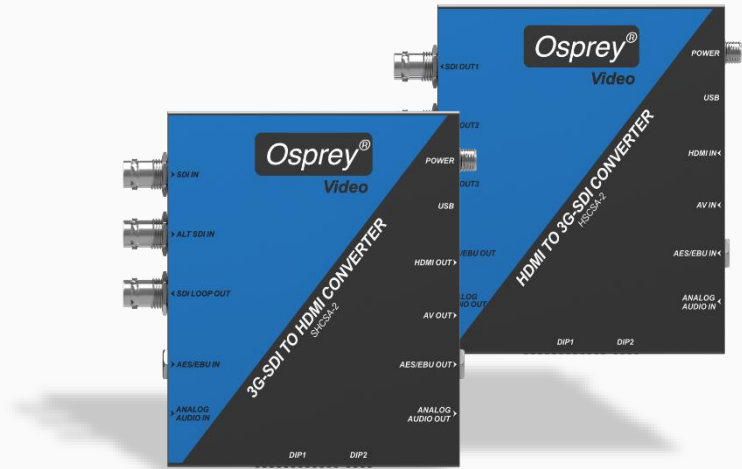


# SCALING CONVERTERS

## 3G-SDI, HDMI, CVBS SCALING CONVERTERS



The Scaling Converter Series of products includes these “Swiss Army Knife” converters, an all-in-one solution to your SDI and HDMI needs. Supporting conversion from SDI to HDMI (SHCSA-2) or HDMI to SDI (HSCSA-2) as well as Scaling, Audio, and Color Space options, these unique tools also feature Video Frame Rate Conversion and Up / Down Scaling Options. AES/EBU and Analog Audio can be embedded into the workflow or de-embedded for external monitoring. Multiple video output options enable confidence monitoring of the workflow.

The settings can be changed by manual dip switches as well as a USB interface. Up to four custom settings can be configured with the software and are accessible via either interface. Diagnostic data overlay can be enabled to monitor video information.



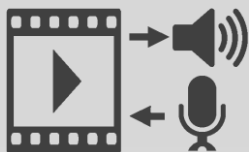
SCALING



FRAME RATE CONVERSION



INTERLACING  
AND  
DE-INTERLACING



AUDIO FEATURES



USB CONTROLS



# 3G-SDI to HDMI CONVERTER

USB Software Controls and DIP Switch Controls

Model: SHCSA-2  
3G-SDI IN, HDMI and CVBS OUT  
AES/EBU and ANALOG AUDIO  
EMBEDDING and DE-EMBEDDING



## Technical Specifications

### Input Video Formats SDI:

- 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1920x1080psf 23.98, 24, 25, 29.97, 30
- 1920x1080i 50, 59.94, 60
- 1280x720p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- SD PAL, NTSC

### Output Video Formats HDMI:

- 1920x1080p 24, 25, 30, 50, 60
- 1920x1080i 50, 59.94, 60
- 1280x720p 24, 25, 30, 50, 59.94, 60
- SD PAL, NTSC

### Output Video Formats AV:

- NTSC, PAL

### HDMI Color Space and Precision:

- HDMI: YUV 4:2:2, YUV 4:4:4, RGB 4:4:4
- SDI: YUV 4:2:2



SDI In    Alt SDI In    SDI Loop Out    AES/EBU In    Analog Audio In



Analog Audio Out    AES/EBU Out    AV Out    HDMI Out    USB    Power

### Video Input:

- 3G-SDI, SMPTE 259/292/424, YCbCr 4:2:2
- Alternate 3G-SDI (Failover)

### Video Output:

- HDMI 1.3a
- CVBS (Composite)
- 3G-SDI Loopout (Primary SDI Input Only)

### Audio Input:

- Embedded SDI, Analog Stereo, AES/EBU

### Audio Output:

- Embedded HDMI, Analog Stereo, AES/EBU

### Size:

- 5"x2.4"x0.95" (125.5x104x24.5mm)

### Weight:

- 0.7lb (0.30kg)

### Power:

- 12V 6W max

### In the Box:

- Converter
- International Wall Power Supply
- Mounting Brackets
- USB and AV Breakout Cable

### Warranty:

- 2 years



# HDMI to 3G-SDI CONVERTER

USB Software Controls and DIP Switch Controls

Model: HSCSA-2  
HDMI and CVBS IN, 3G-SDI OUT  
AES/EBU and ANALOG AUDIO  
EMBEDDING and DE-EMBEDDING



## Technical Specifications

### Input Video Formats HDMI:

- 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 1920x1080i 50, 59.94, 60
- 1280x720p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- 576i, 576p
- 480i, 480p

### Input Video Formats AV:

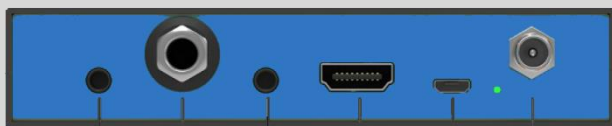
- NTSC, PAL

### Output Video Formats SDI:

- 1920x1080p 24, 25, 30, 50, 60
- 1920x1080i 50, 59.94, 60
- 1280x720p 24, 25, 30, 50, 60
- 625i
- 525i

### Color Space and Precision:

- HDMI: YUV 4:2:2, YUV 4:4:4, RGB 4:4:4
- SDI: YUV 4:2:2



Analog Audio In   AES/EBU In   AV In   HDMI In   USB   Power



SDI Out 1   SDI Out 2   SDI Out 3   AES/EBU Out   Analog Audio Out

### Video Input:

- HDMI 1.3a
- CVBS (Composite)

### Video Output:

- 3G-SDI x3

### Audio Input:

- Embedded HDMI, Analog Stereo, AES/EBU

### Audio Output:

- Embedded HDMI, Analog Stereo, AES/EBU

### Size:

- 5"x2.4"x0.95" (125.5x104x24.5mm)

### Weight:

- 0.7lb (0.30kg)

### Power:

- 12V 6W max

### In the Box:

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