



## SC-HD-2B

HDMI Distribution Amplifier  
with Audio Out



SC-HD-2B

### DESCRIPTION

The SC-HD-2B is a video scaler/processor that can convert any HDMI resolution into a user specifiable output resolution. It accepts virtually all PC and HDTV resolutions including 4Kx2K @ 60Hz with 4:4:4 color. Its world-class scaling engine works in real time with no delay and is capable of flipping the video horizontally or vertically making it ideal for teleprompting, rear projection or semi 3-D holographic applications. Contrast, hue, saturation, and other parameters of video can be also manipulated.

Both stereo analog and optical digital audio inputs and outputs are available. The audio from the HDMI input signal can be extracted (de-embedded) and output on both digital as well as stereo analog signal. The audio embedded into the HDMI output is selectable from one of three sources: HDMI input, analog L/R input, or digital optical input.

The SC-HD-2B has the ability to output a wide range of resolutions regardless of the input timing and resolution. The output resolution can automatically match the native resolution of the display connected to its output (based on the EDID setting of the display), or it can be specified by the user.

The SC-HD-2B features an OSD menu for configuration, picture setup, system information and other advanced options. The compact and sturdy enclosure features integrated mounting brackets.

### FEATURES

- Any video resolution can be scaled up or down to any other resolution
- Supports UHD / 4K @ 60 Hz with 4:4:4 Color on input and output
- Horizontal and Vertical mirroring (x or y-axis flip)
- Analog and digital audio inputs and outputs
- Advanced scaling for real-time frame rate capture & conversion
- By default scales the output to the native resolution of any connected display
- Quick Select button combinations for setting output resolution
- Supports audio extraction without attached display
- Embeds audio to HDMI from analog or digital audio source
- Selectable audio delay up to 150ms (for lip sync)
- HDMI, HDCP, and DVI Compliant

Video	
Bandwidth	600 MHz/18 Gps
Input Port	1x HDMI 1x 3.5 mm analog audio 1x Digital Audio (TOSLink) 1x USB (service only)
Output Port	1x HDMI 1x 3.5 mm analog audio 1x digital audio (TOSLink)
Resolutions	DVI Signal: VGA (640x480) thru WUXGA (1920x1200) HDTV Signal: 480p through UHD+ (4096x2160@60Hz)

Analog Audio Input	
Audio Level	2 Vrms Max
Impedance	49.9 Kohm
Type	Unbalanced

Analog Audio Output	
Audio Level	2 Vrms Max
THD+N	< -80 dB @ dBfs 1kHz (A-wt)
SNR	>70 dB @ 0 dBFS
Freq. Response	< +/- 3 dB @ 20 Hz- 20 kHz
Crosstalk	< -70 dB @ 10 kHz
Type	Unbalanced

Optical Audio Input	
Audio Level	32, 44.1, 48, 82, 88.2, 96, 176.4, 192

Optical Audio Output	
Audio Level	48



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HDMI Cable Length	
Input	1080p 8-bit: 15 m, 1080p 12-bit: 10 m, 4K 8-bit: 3 m
Output	1080p 8-bit: 15 m, 1080p 12-bit: 10 m, 4K 8-bit: 3 m

General	
Power Supply	100 VAC to 240 VAC, 50-60 Hz, 0.6 A, External; 5 VDC, 2.6 A (US/EU Standard, CE/FCC/UL Certified)
Temp/Humidity	Storage: -4 to +140 °F (-20 to +60 °C) 20% to 90%, non-condensing Operating: +32 to +104 °F (0 to +40 °C) 20% to 90%, non-condensing
Typical DC	5 VDC, 2.6 A Power Supply
Current Draw	-2.2 A Max
Cooling	Convection
Enclosure Type	Metal (aluminum)
Dimensions	4.02" x 0.98" x 6.5" W x H x D (102 mm x 25 mm x 165 mm) Depth includes mounting flanges
Product Weight	Model Only 0.77 lbs (0.35kg) Shipping 2.85 lbs (1.29 kg)
Safety	CE
EMI/EMC	CE, FCC, Class A
MTBF	90,000 hours (estimate)
Warranty	3 years parts and labor



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