

PANORAMA<sup>div</sup> the Video Division of Wohler

## SD12DAC SD-SDI DIGITAL TO ANALOG CONVERTER WITH DE-EMBEDDED DIGITAL OR ANALOG AUDIO



**Wohler Solutions:**  
Unsurpassed Quality, Service,  
and Value Delivered by the  
Leader in Broadcast Monitoring  
Applications

The SD12DAC digital to analog converter is a high-quality, standalone solution for converting SDI digital video to analog and de-embedding audio to AES or analog signals in the modern SD-SDI broadcast studio environment.

D/A conversion is 12-bit with over sampling of 16x and is able to convert SD-SDI signals to analog video, including component, RGB, or composite/S-video. Video formats are detected automatically and the various video output options are selectable by setting the external 10-position DIP switch.

Audio can be de-embedded from the SD-SDI source to either digital AES/EBU or industry standard analog using high quality 24-bit DACs. When de-embedding audio to analog, the user may select any one audio stereo pair of the eight pairs available from the four audio groups. When de-embedding to digital AES/EBU, the user may select any group of SDI. The converted audio is output from two unbalanced BNC connectors.

Additional features include graticule and aspect ratio selection. The unit features the ability to generate a wide variety of useful video test patterns and audio test tones. Two LEDs on the units rear panel indicate power and SDI signal lock status. Size of the unit is relatively small with dimensions of 4.37" x 3.97" x 1.06". Power is provided by an optional external 12V power supply.

### FEATURES

- CONVERTS SD-SDI TO ANALOG RGB, COMPONENT, AND COMPOSITE/S-VIDEO
- NTSC/PAL AUTO-SWITCHING
- DE-EMBEDS ANY ONE OF FOUR AUDIO GROUPS TO AES/EBU OR ANY TWO CHANNELS IN ANALOG
- GENERATES INDUSTRY STANDARD VIDEO TEST PATTERNS
- GENERATES TEST TONES ON FOUR CHANNELS OF AES/EBU OR TWO CHANNELS OF ANALOG AUDIO
- 16X OVER-SAMPLING
- SD PEDESTAL, ACTION AND TITLE SAFE GRATICULES AND CENTER CROSS
- HORIZONTAL AND VERTICAL BLANKING ENABLE AND DISABLE
- SDI SIGNAL LOCK AND POWER LEDS
- PORTABLE SIZE: (4.37 X 3.97 X 1.06") (111 X 101 X 27mm)
- AC OPERATION REQUIRES UNIVERSAL POWER SUPPLY WITH LOCKING CONNECTOR (OPTIONAL PURCHASE)

# SD12DAC SD-SDI DIGITAL TO ANALOG CONVERTER WITH DE-EMBEDDED DIGITAL OR ANALOG AUDIO

CONVERTER



## BENEFITS

- **Indispensable** – SDI to analog conversion with stereo audio de-embedding in a portable size
- **Troubleshooting** – Generates video test patterns and audio test tones
- **Uncompromising** – Uses high quality 24-bit digital-to-analog audio conversion, and 12-bit over-sampling video conversion
- **Customizable** – Wide range of settable parameters

## SPECIFICATIONS

Input	HD/SD-SDI (1 x 75 ohm BNC)
Output	Video: Y-Pb-Pr, RGB or Composite/S-Video (3 x BNC) Audio: Four channels AES/EBU or two channels analog audio (2 x 75 ohm BNC)
Video Formats	SD: SMPTE 259M @ 270 Mbs - 625i/50 - 525/59.94
Audio Test Patterns	Audio OFF Pattern 1: 1 kHz on left channel, 1 kHz broken on right Pattern 2: 1 kHz broken on left channel, 1 kHz on right Pattern 3: 1 kHz on left channel, 1 kHz on right
Video Test Patterns	100% color bars, 75% color bars, 100% color bars and red, check-field matrix, 4:3 square, 16:9 square, 5 step staircase, valid 5 step modulated staircase, limit ramp, shallow ramp, multiburst 60% sweep with markers, full fieldline 17 ITS, convergence, tartan bars, 1 field in 8 white, white, black, red, green, blue, magenta, cyan, static x frequency sweep lo zoneplate, static x frequency sweep hi zoneplate, static y frequency sweep zoneplate, moving x bars zoneplate, moving y bars zoneplate, moving xy bars zoneplate, static circular zoneplate, moving circular zoneplate
Power Requirements	12 VDC optional power supply
Dimensions	4.37 x 3.97 x 1.06 (inch), 111 x 101 x 27 (mm)

\*Specifications and features subject to change. 11/07



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