

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

## HD12DAC HD/SD-SDI DIGITAL TO ANALOG CONVERTER WITH DE-EMBEDDED AES/EBU OR ANALOG AUDIO



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

The HD12DAC digital to analog converter is a straightforward, compact, and high-quality solution for converting HD/SD-SDI digital video to analog and de-embedding audio to AES or analog signals in the modern SD and HD broadcast studio environment.

The HD12DAC accepts either SD-SDI or HD-SDI signals for conversion to analog video. HD-SDI signals are converted to Y-Pb-Pr (component) and RGB. SD-SDI signals are converted to Y-Pb-Pr (component), RGB, or composite/S-Video. Digital to analog conversion is 12-bit with over sampling of 2x for HD-SDI and 16x for SD-SDI. 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 HD/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 also features the ability to generate audio test tones. Two LEDs on the units rear panel indicate power and HD/SD-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 HD-SDI TO ANALOG RGB OR COMPONENT VIDEO
- CONVERTS SD-SDI TO ANALOG RGB, COMPONENT AND COMPOSITE/S-VIDEO
- NTSC/PAL AUTO-DETECTED
- DE-EMBEDS ANY ONE OF FOUR AUDIO GROUPS TO AES/EBU OR ANY TWO CHANNELS IN ANALOG
- GENERATES TEST TONES ON FOUR CHANNELS OF AES/EBU OR TWO CHANNELS OF ANALOG AUDIO
- 2X OVER-SAMPLING FOR HD AND 16X OVER-SAMPLING FOR SD
- SELECTABLE 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)

# HD12DAC HD/SD-SDI DIGITAL TO ANALOG CONVERTER WITH DE-EMBEDDED AES/EBU OR ANALOG AUDIO

CONVERTER

RED RANGE SERIES MINIATURE CONVERTER



## BENEFITS

- **Essential** – 12-bit D/A video down-conversion and stereo audio de-embedding in portable size
- **Helpful** – Generates audio test signals
- **Superior** – 12-bit over sampled video processing and 24-bit digital to analog conversion
- **User Friendly** – Works the way you want it to with custom settings

## 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	<p>HD: SMPTE 292M/274M/269M @ 1.485 and 1.435 Gbs</p> <ul style="list-style-type: none"> <li>- 1080i @ 60/59.94/50 Hz</li> <li>- 1080p/psf @ 30/29.97/25/24/23.98 Hz</li> <li>- 720p @ 60/59.94/50/30/29.97/25/24/23.98 Hz</li> </ul> <p>ED: SMPTE ITU-R BT.1358 and SMPTE 293M @ 540 Mbs</p> <ul style="list-style-type: none"> <li>- 625p50p</li> <li>- 625p50p</li> <li>- 525p59.94</li> </ul> <p>SD: SMPTE 259M @ 270 Mbs</p> <ul style="list-style-type: none"> <li>- 625i/50</li> <li>- 525/59.94</li> </ul>
Audio Test Patterns	<p>Audio OFF</p> <p>Pattern 1: 1 kHz on left channel, 1 kHz broken on right</p> <p>Pattern 2: 1 kHz broken on left channel, 1 kHz on right</p> <p>Pattern 3: 1 kHz on left channel, 1 kHz on right</p>
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



PANORAMA<sup>dty</sup>  
THE VIDEO DIVISION OF WOHLER TECHNOLOGIES

email: [info@wohler.com](mailto:info@wohler.com)

[www.wohler.com](http://www.wohler.com)

Wohler Technologies, Inc.  
31055 Huntwood Avenue  
Hayward, CA 94544 U.S.A.  
+1 888 5 WOHLER (Toll Free)  
+1 510 870-0810 +1 510 870-0811 (fax)  
+44 (0) 1234 320006 U.K.