

World Leader • In-Rack • Audio & Video Monitoring

WOHLER AMP2-S8MDA

8 Channel HD-SDI, SD-SDI, AES/EBU & Analog Audio Monitor



September 1, 2004



The AMP2-S8MDA is a complete exceptionally high quality audio monitoring system offering premium quality 8 channel Analog, AES/EBU, HD-SDI & SD-SDI digital multi-channel audio monitoring & conversion as well as professional level metering in a compact two rackspace cabinet. This unit contains three audiophile-quality drivers and three power amplifiers; two speakers and amplifiers reproduce midrange and high frequency information in stereo, while the third amp/driver combination handles summed LF information below the 500 Hz crossover point.

The AMP2-S8MDA features eight 53 segment high-resolution tri-color LED level meters showing simultaneous VU and PPM for superior level-metering. The front panel features an innovative LCD Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers.

This unit is ideally suited for use in space critical environments such as TV facilities, studios, VTR bays, mobile production vehicles, satellite links and indeed, any rackmount environment where multi-channel HD audio monitoring is required. Built and rigorously tested in the USA, our products are backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Features:

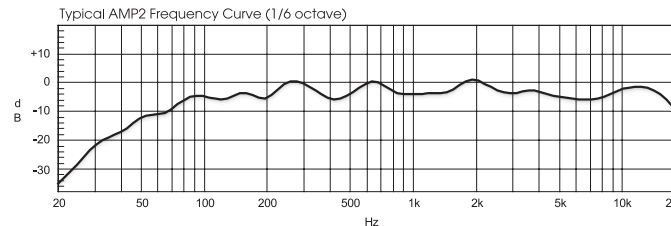
- Powerful 104dB SPL at 2 feet (0.6m)
- Premium Quality Drivers & Power Amplifiers
- Excellent Frequency Response and Low Distortion
- Focused Sound, reduces Adjacent Bay Crosstalk
- Audible Indications of Phase/Polarity Problems
- Phase-Correlation Display of Selected Channels
- Output Limiter Protected Speakers
- Eight 53-Segment Tri-Color LED Bargraphs displaying Simultaneous VU and PPM
- Headphone Jack (mutes speakers)
- Thorough Magnetic Shielding for Placement next to Sensitive Equipment
- Front Panel Summing of any Combination of up to 8 Channels to the Left and/or Right Speakers & Selected
- Thorough Magnetic Shielding for Placement next to Video Monitors

Inputs:

- 8 Balanced Analog Inputs
- 4 AES/EBU Digital Inputs
- 2SDI Inputs, Accepts either HD-SDI or SD-SDI Input with One Reclocked Output

Outputs:

- 4 AES/EBU Digital Outputs Demuxed from any 2 HD-SDI or SD-SDI Groups
- 8 Analog Outputs Demuxed from any 2 HD-SDI or SD-SDI Audio Groups or Converted from AES/EBU Digital Inputs
- Analog output of Selected Pair or Multichannel Downmix
- Optional Extra: Composite Video Output



Audio Monitoring

Level Metering

Alarm Systems

Video Monitoring

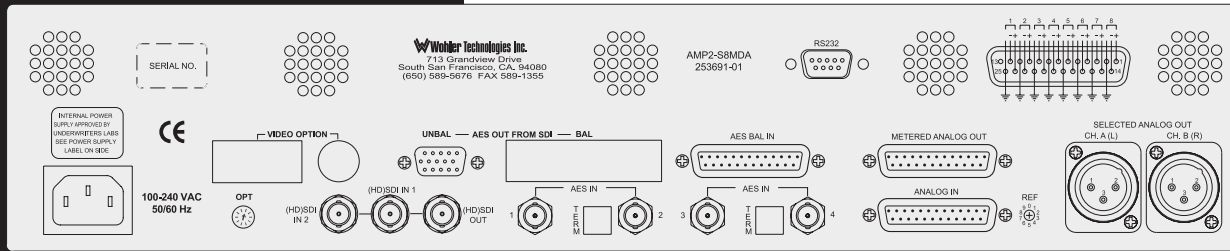
Toll Free (US): 1.888.5.WOHLER • Tel: 510.870.0810 • Fax: 510.870.0811 • 31055 Huntwood Avenue, Hayward, California 94544, USA

www.wohler.com sales@wohler.com

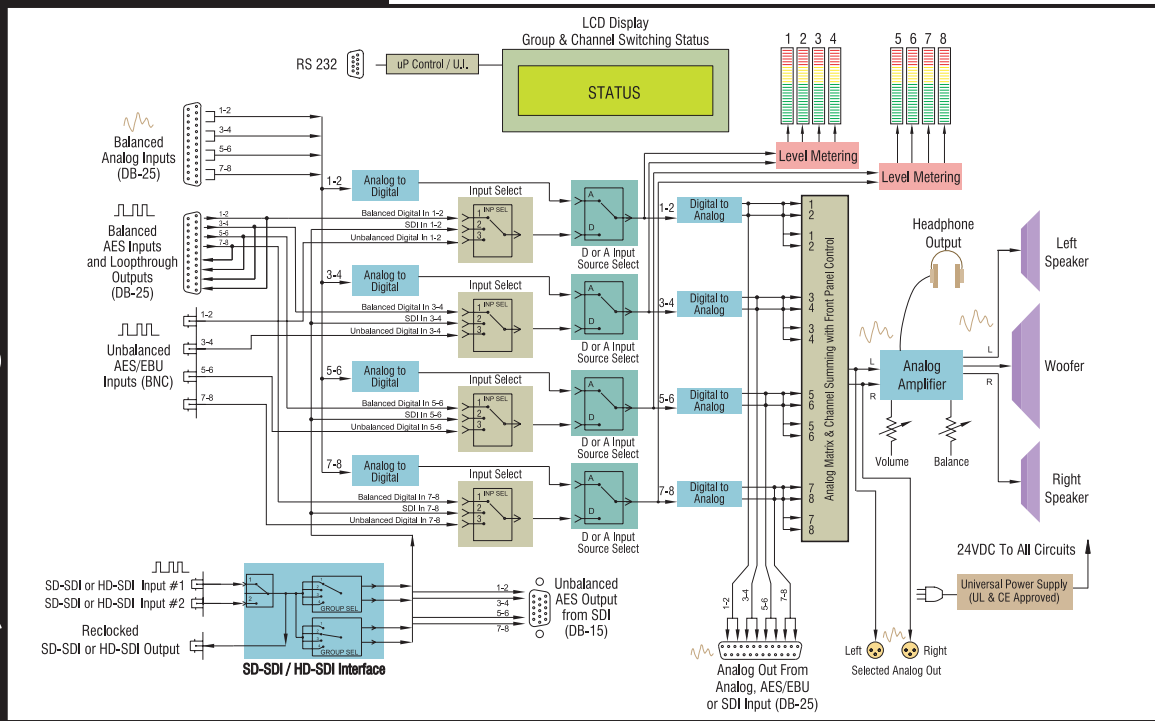
WOHLER AMP2-S8MDA

8 Channel HD-SDI, SD-SDI, AES/EBU & Analog Audio Monitor

Rear Panel:



System Diagram:



Specifications:

HD-SDI or SD-SDI input	2 HD-SDI or SD-SDI inputs on BNC, w/ reclocked out
AES/EBU input	4 unbalanced (BNC) or balanced (DB-25) AES/EBU inputs
Analog input	8 balanced analog inputs, DB-25
Analog output	8 balanced analog outputs from SDI, AES/EBU or analog, DB-25 balanced analog output of 2 selected channels, XLR
AES/EBU output	4 unbalanced AES/EBU outputs from SDI, high density DB-15
Composite video output (with video option installed)	1 composite video output (BNC)
Level meters	8 x 53 segment
Level meter scale	0 to -66 dB
Level meter threshold	0, +4, +6 or +8dBv; switch selectable
Level meter dynamics	Simultaneous VU & PPM
Midscale resolution	1dB
Peak acoustic output @ 2 feet	104dB SPL
Power output	RMS each side (4 Ω) - 10W, 14W peak RMS center WOOFER (4 Ω) - 25W, 35W peak
Frequency response (1/6 octave)	.80Hz - 16kHz (±5dB) (-10dB @ 40Hz, 20kHz)
Analog input impedance	>40 kΩ balanced
AES/EBU input termination	110Ω balanced, 75Ω unbalanced
HD-SDI input termination	75 Ω unbalanced
AES/EBU input sampling rate	32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	.6% or less worst case frequencies above 140Hz including cabinet resonance, typically < 1.5%
Magnetic shielding	<0.8 gauss any adjacent surface
Power consumption (AVG. MAX.)	.60W
Dimensions (HxWxD)	3.5 x 19 x 12" (89 x 483 x 305mm)
Weight (approx.)	18lbs (8.2kg)
Power supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement



Toll Free (US): 1.888.5.WOHLER • Tel: 510. 870.0810 • Fax: 510.870.0811
31055 Huntwood Avenue, Hayward, California 94544, USA
www.wohler.com • sales@wohler.com