



## Description

The AMP2-E8MDA is the world's first in-rack audio monitor capable of outputting and/or displaying encoded, multi-channel (up to 8 channels) audio from Dolby E®, or Dolby Digital® streams de-embedded from either HD-SDI or SD-SDI without prior Dolby encoding.

Close cooperation with Dolby Laboratories ensured that the development of this latest Wohler product meets the highest standards of monitoring both Dolby E distribution and Dolby Digital emission coding systems.

The ability to switch seamlessly between encoded or discretely embedded sources, in addition to providing full, simultaneous demuxed output of the multi-channel source, offers a significant new operational capability in a single monitor unit.

The AMP2-E8MDA features 3 audiophile-quality drivers, and 3 power amplifiers; 2 speakers and amplifiers reproduce midrange and high frequency information in stereo, while a third amp/driver combination handles summed LF information below the 500Hz crossover point.

## Features

Powerful 104dB SPL at 2 feet (0.6m)

Premium quality drivers and power amplifiers

The sleek design provides optimally focused sound for operators in an ultra near field environment (1 to 3 ft.) and offers performance comparable to that of many separate monitor pairs without installation hassles and awkward speaker placements. This enables 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 reversed polarity audio feeds. Models are also available with integrated audio level meters.

The AMP2-E8MDA is ideally suited to provide high quality, multi-channel, digital and analog audio monitoring in a compact unit. Ideal for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite links, cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP2-E8MDA is backed by both warranty and satisfaction guarantee return policy.

Excellent frequency response and low distortion

Audible indicators for phase/polarity problems

## Order Part Numbers

AMP2-E8MDA: 8102-0020 (Analog, AES, Dolby E/Dolby Digital, and HD/SD-SDI)  
 AMP2-E8DA: 8102-0010 (Analog, AES, and Dolby E/Dolby Digital)

Phase correlation display of selected channels

Eight 53-segment tri-color LED bar graphs display simultaneous VU and PPM

Headphone jack (mutes speakers)

## Benefits

Select the channel or channel pair that you want in the left, right, or both speakers, or select a predefined downmix.

4 presets let you change the entire system configuration with the press of a single button.

Separate brightness adjustments for left and right level meters.

Thorough magnetic shielding for placement next to sensitive equipment and video monitors

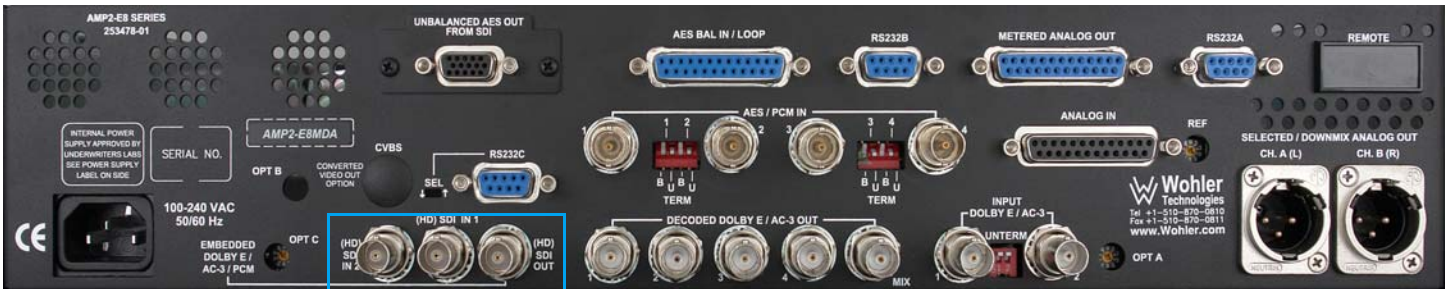
Front panel summing of any combination of up to 8 channels to the left and/or right speakers and selected analog outputs

Decodes, monitors, and plays decoded Dolby E or Dolby Digital bitstreams.

Display phase indication with the press of a single button.

LED screen displays signal type, (HD/SD-SDI group for the AMP2-E8MDA), Dolby program and more.

## Rear Panel



The SDI connectors are only available on the AMP2-E8MDA model.

## Physical Specifications

<b>Dimensions (H x W x D)</b>	3.5 x 19 x 12" (89 x 483 x 305mm)
<b>Shipping weight</b>	22 lbs. (9.98 kg)
<b>Space requirements</b>	2RU in a standard 19" rack
<b>Supplied supply</b>	100 to 240VAC, 50/60Hz universal input CE and UL approved
<b>Power connector</b>	Attached external power unit plugs into standard U.S. outlet. Alternate power cables are available.
<b>Power requirements</b>	Power to the unit is 24V DC, 3.0 A. The external power supply then connects to mains power (100 to 240 VAC ± 10%, 50/60Hz.
<b>Power consumption</b>	60 W

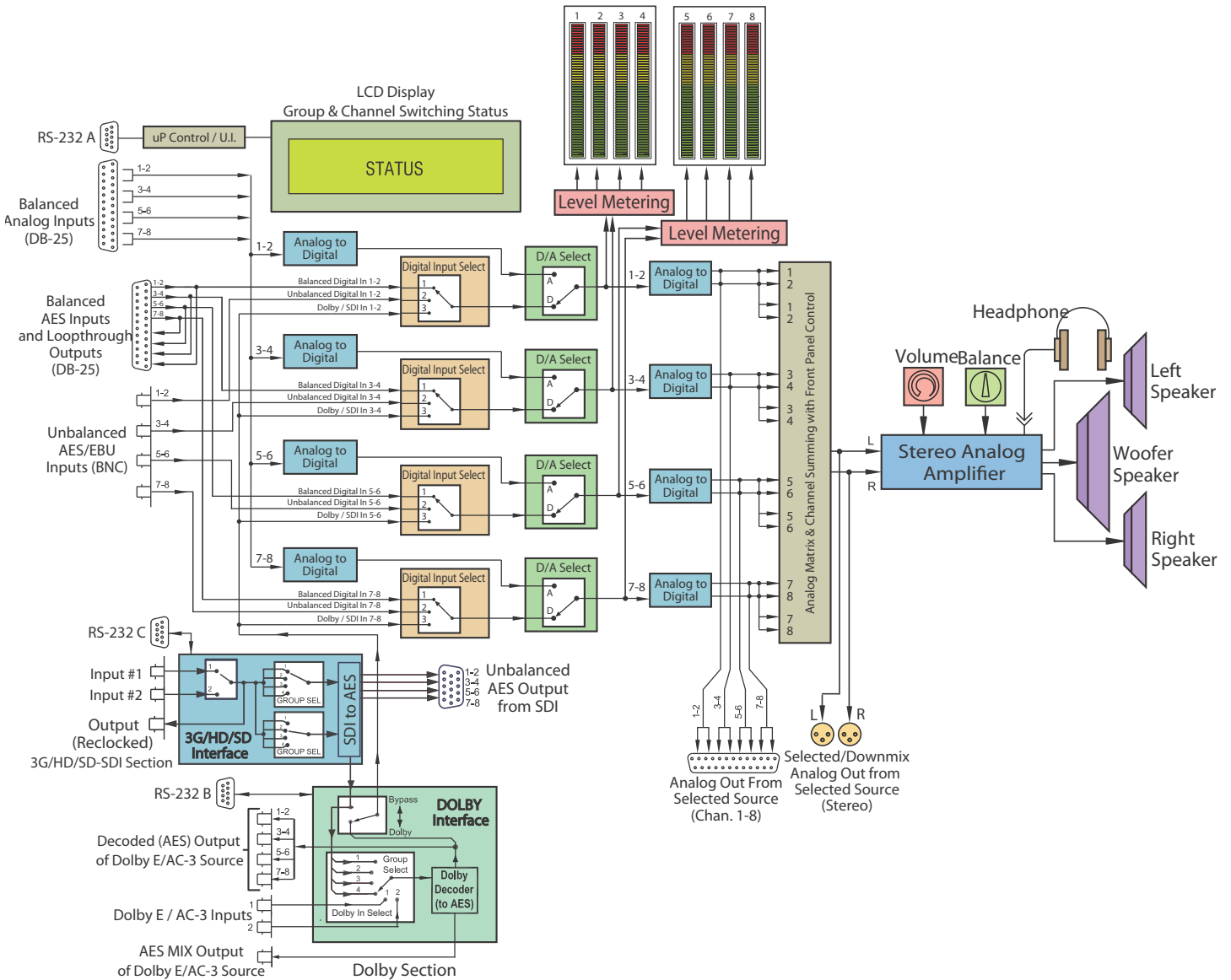
**Physical Specifications (Continued)**

<b>Power output</b>	RMS each side (4 W) - 10W, 14W peak RMS center woofer (4 W) - 25W, 35W peak
<b>Peak acoustic output at 2 feet</b>	104dB SPL
<b>Magnetic shielding</b>	<0.8 gauss any adjacent surface
<b>Hum and noise</b>	better than -68dB below full output
<b>Electrical distortion</b>	<0.15% at any level below limit threshold
<b>Acoustic distortion</b>	6% or less worst case frequencies above 140Hz including cabinet resonance, typically < 1.5%

**Technical Specifications**

<b>Inputs</b>	4 AES/PCM (on BNC) 8 channels AES Balanced (on 1 DB-25) 2 Dolby E/AC-3 (on BNC) 2 HD/SD-SDI (on BNC)—AMP2-E8MDA model only 8 channels Analog (on 1 DB-25) 3 RS-232 on DB-9
<b>Outputs</b>	1 reclocked HD/SD-SDI (on BNC)—AMP2-E8MDA model only 1 Unbalanced AES (on 1 HD-15) (Replaceable Option: 1 Balanced AES on DB-25) 5 Decoded Dolby E/AC-3 (on BNC) 8 channels metered Analog (1 DB-25) 2 selected downmix Analog (2 XLR)
<b>Additional rearpanel controls</b>	4 10-position recessed rotary pots 1 2-position switch (for RS-232C)
<b>Level meters</b>	8 x 53 segment
<b>Level meter scale</b>	0 to -66 dB
<b>Level meter threshold</b>	0, +4, +6 or +8dBV: switch selectable
<b>Level meter dynamics (AES)</b>	simultaneous VU & PPM
<b>Midscale resolution</b>	1 dB
<b>Frequency response (1/6 octave)</b>	80Hz - 16kHz ( $\pm 5$ dB) (-10dB @ 40Hz, 20kHz)
<b>Analog input impedance</b>	>40 k $\Omega$ balanced
<b>Analog reference</b>	+8, +6, +4, or 0 dBu
<b>Digital reference</b>	-20, -18, or -9 dBFS
<b>AES/EBU input termination</b>	110 $\Omega$ balanced, 75 $\Omega$ unbalanced
<b>HD-SDI input termination</b>	75 $\Omega$ unbalanced

## Block Diagram



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