



## Description

The AMP2-E8DA 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<sup>®</sup>, or Dolby Digital<sup>®</sup> streams de-embedded from AES.

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-E8DA 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.

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.

The AMP2-E8DA 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.

## Features

Powerful 104dB SPL at 2 feet (0.6m)

Premium quality drivers and power amplifiers

Excellent frequency response and low distortion

Audible indicators for phase/polarity problems

Headphone jack (mutes speakers)

Phase correlation display of selected channels

## Order Part Number

AMP2-E8DA: 8102-0130 (Analog, AES, and Dolby E/Dolby Digital)

## Features (Continued)

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

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

## 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.

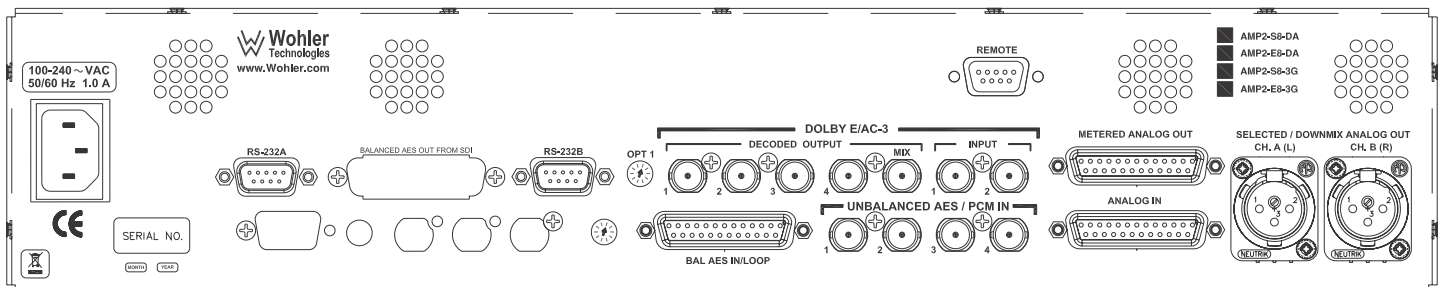
Front panel summing of any combination of up to 8 channels to the left and/or right speakers and selected analog outputs

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, Dolby program and more.

## Rear Panel



## Physical Specifications

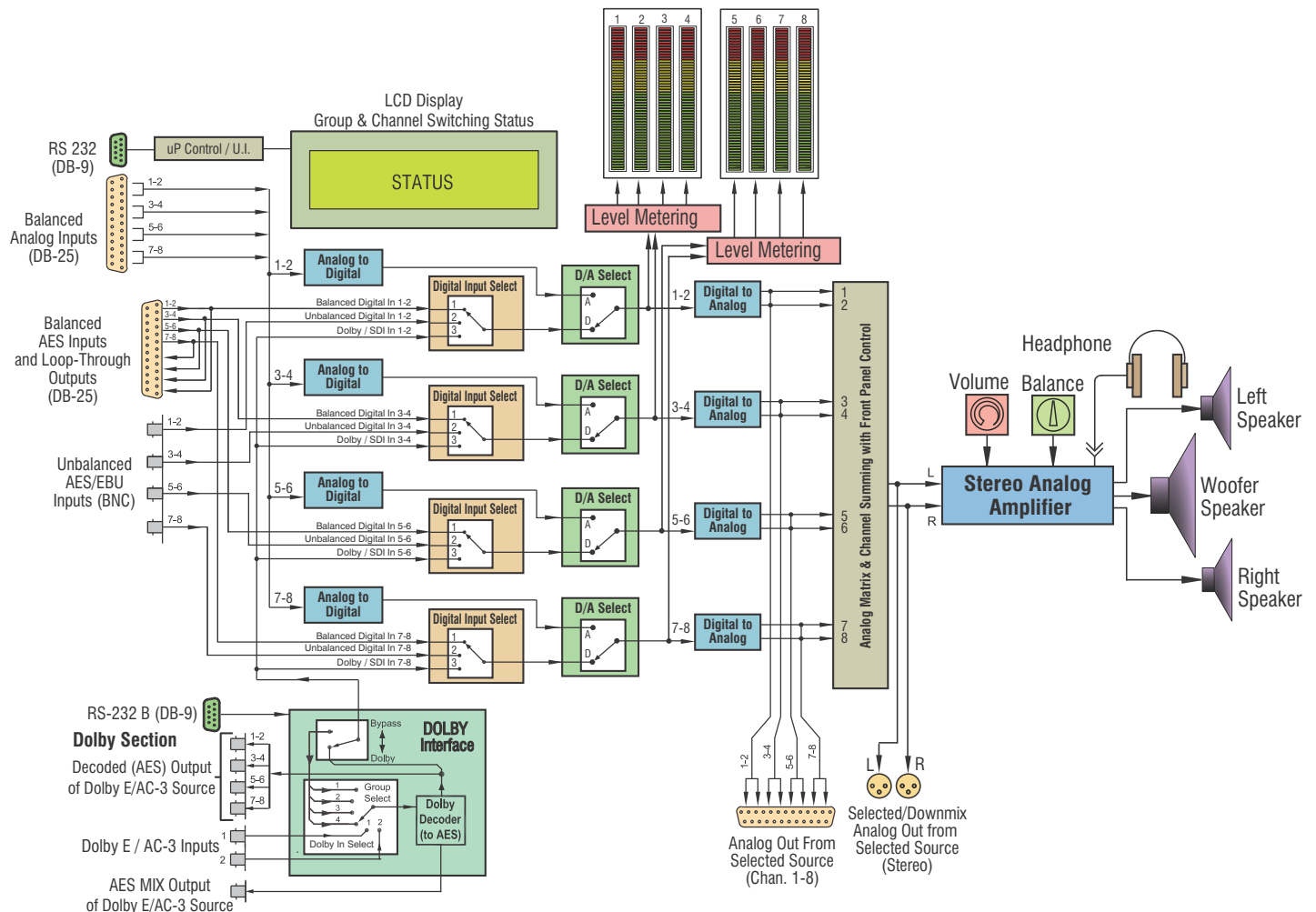
<b>Dimensions (H x W x D)</b>	3.5 x 19 x 12" (89 x 483 x 305mm)
<b>Shipping weight</b>	22 lbs. (9.98 kg)
<b>Space requirements</b>	2RU in a standard 19" rack
<b>Supplied supply</b>	100 to 240VAC, 50/60Hz universal input CE and UL approved
<b>Power connector</b>	Standard external power cord plugs into standard U.S. outlet. Alternate power cables are available.
<b>Power requirements</b>	Power to the unit is 100 to 240 VAC $\pm$ 10%, 50/60Hz.
<b>Power consumption</b>	60 W
<b>Power output</b>	RMS each side: - 10W, 14W peak RMS center woofer: - 25W, 35W peak
<b>Peak acoustic output at 2 feet</b>	104dB SPL

### Physical Specifications (Continued)

<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 unbalanced AES/PCM pairs (BNC) 4 balanced AES pairs (1 DB-25) 2 Dolby E/AC-3 (BNC) 8 channels Analog (1 DB-25)
<b>Outputs</b>	4 unbalanced AES (1 HD-15) (Option: balanced AES converted from SDI [DB-25]) 5 decoded Dolby E/AC-3 (BNC) 8 channels metered Analog (1 DB-25) 2 selected downmix Analog (2 XLR)
<b>Other rear panel connectors</b>	3 RS-232 (DB-9)
<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**

**Contact**

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