



Description

The AMP1-E8MDA-3G monitor is the world's first 1RU 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 3G/HD/SD-SDI or decoded from AES.

The ability to switch seamlessly between encoded or discrete PCM 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.

These units feature 4 audiophile-quality drivers, and 3 power amplifiers; 2 speakers and amplifiers reproduce midrange and high frequency information in stereo, while a third amp and 2 speakers handle summed LF information below the 500Hz crossover point.

Features

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

Powerful 104dB SPL at 2 feet (0.6m)

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

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.

These units are ideal for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite links, cable TV facilities, and on-air radio studios.

Excellent frequency response and low distortion

Audible indicators for phase/polarity problems

Phase correlation display of selected channels

Eight 26-segment tri-color LED bar graphs display simultaneous VU and PPM

Headphone jack (mutes speakers)

Order Part Number

AMP1-E8MDA-3G: 8102-0070

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.

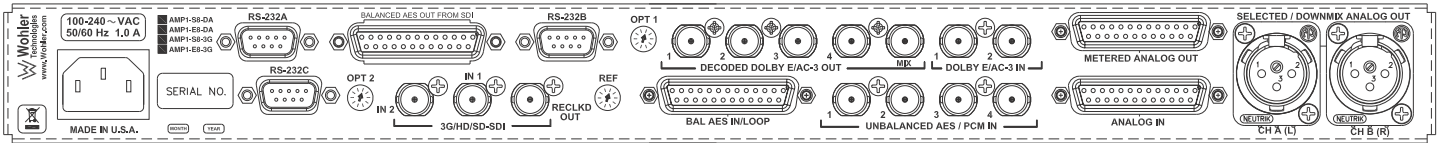
Separate brightness adjustments for left and right level meters.

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

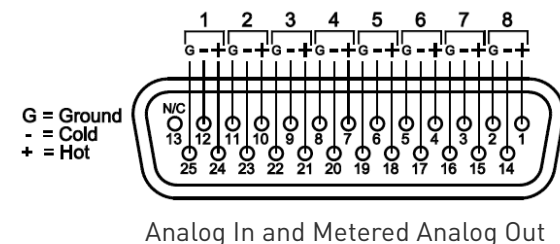
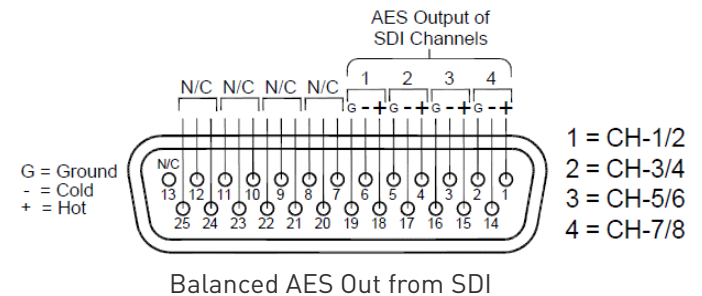
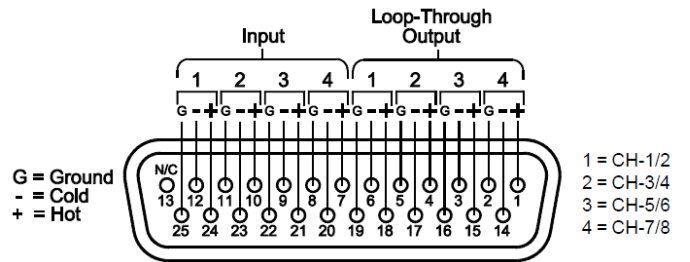
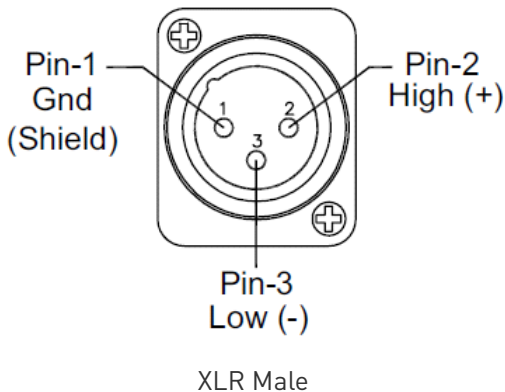
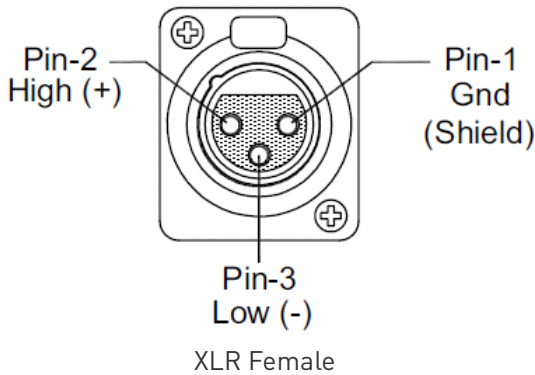
Display phase indication with the press of a single button.

LED screen displays phase, signal type, (3G/HD/SD-SDI group for the 3G models), Dolby program, and more.

Rear Panel



Selected Pin-Outs



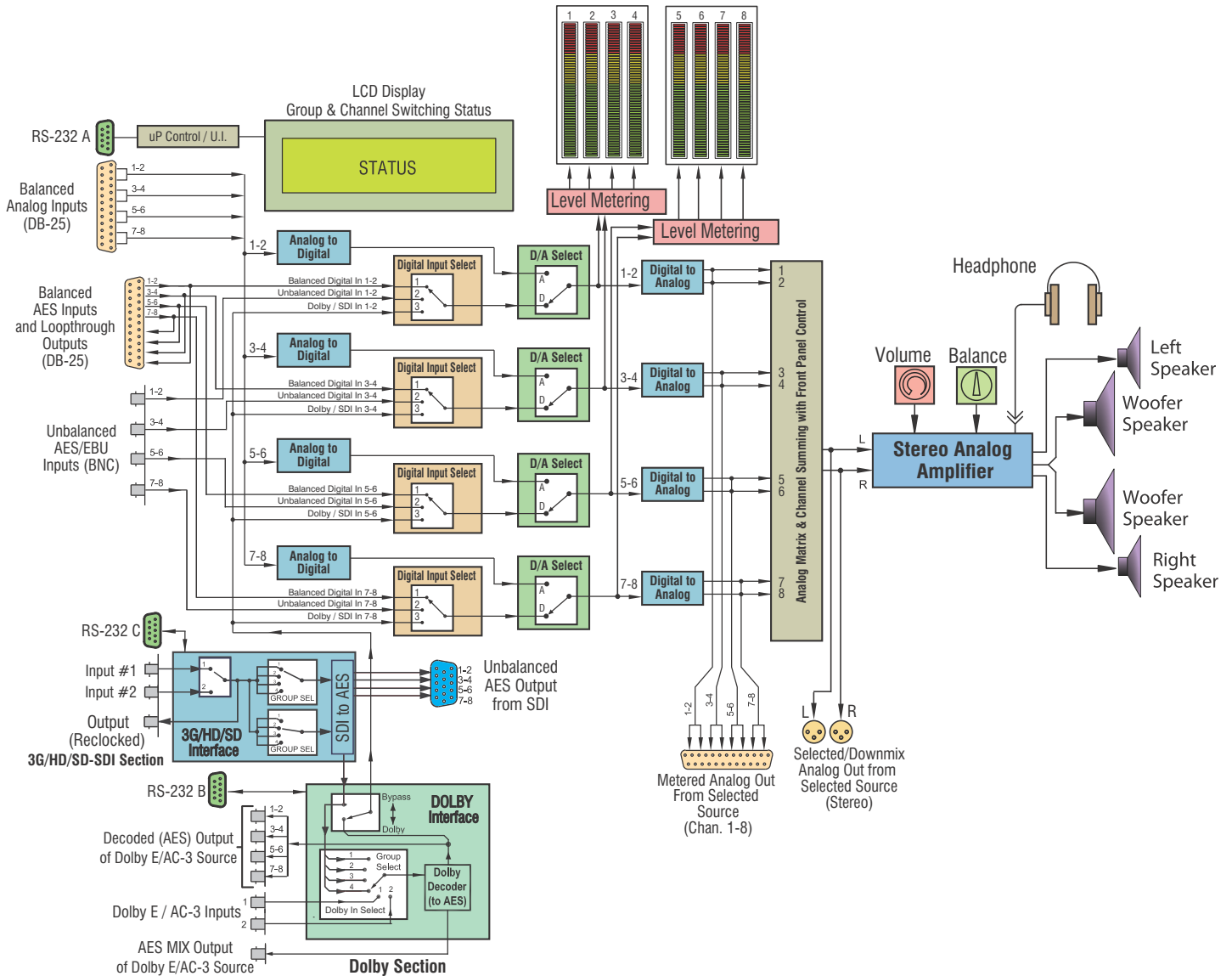
Physical Specifications

Dimensions (H x W x D)	1RU models: 1.75" x 19" x 11" (4.5 mm x 483 mm x 30 mm)
Shipping weight	13 lbs. (5.9 kg)
Space requirements	1 in a standard 19" rack
Power connector	Standard external power cord plugs into standard U.S. outlet. Alternate power cables are available.
Power requirements	Power to the unit is (100 to 240 VAC ± 10%, 50/60Hz.
Power consumption	60 W
Power output	RMS each side: - 10W, 14W peak RMS center woofer: - 25W, 35W peak

Technical Specifications

Inputs	4 unbalanced AES/PCM pairs (BNC) 4 AES Balanced pairs (1 DB-25) 2 Dolby E/AC-3 (BNC) 2 3G/HD/SD-SDI (BNC) 8 channels Analog (1 DB-25)
Outputs	1 reclocked 3G/HD/SD-SDI (BNC) 4 balanced AES pairs loop out (DB-25) 4 unbalanced AES pairs (1 HD-15) (Option: balanced AES [DB-25] converted from SDI) 5 decoded Dolby E/AC-3 (BNC) 1 unbalanced AES pair mix out of Dolby source 8 channels metered Analog (1 DB-25) 2 selected downmix Analog (2 XLR)
Other rear panel connectors	3 RS-232 (DB-9)
Peak acoustic output at 2 feet	104dB SPL
Magnetic shielding	<0.8 gauss any adjacent surface
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%
Acoustic frequency response	80Hz to 16kHz (±5 dB) (-10dB @ 40Hz, 20kHz)
Analog input impedance	>40 k Ω balanced
Scale reference	Analog: +8, +6, +4, or 0 dBu • Digital: -20, -18, or -9 dBFS
AES/EBU input termination	110 Ω balanced, 75 Ω unbalanced
3G/HD/SD-SDI input termination	75 Ω unbalanced
Electrical meter band width	20 Hz to 20 kHz (± 0.5 dB)

Block Diagram



Contact

Wohler Technologies, Inc.
 31055 Huntwood Avenue
 Hayward, CA 94544 USA
 +1 888 5 WOHLER (Toll Free)
 +1 510 870-0810
 +1 510 870-0811 (fax)

Wohler Europe
 +33 970 440 253
 +33 1 77 72 59 99 (fax)
 sales@wohler.com
 www.wohler.com

Wohler Asia
 1704 Lucky Commercial Center
 103 Des Voeux Road West
 Sheung Wan, Hong Kong
 +852 2851 8325
 +852 2850 8182 (fax)