



## Description

The AMP1-S8MDA-3G monitor is an exceptionally high-quality audio monitor system offering premium quality 8-channel analog, AES/EBU, 3G/HD/SD-SDI multi-channel audio monitoring and conversion as well as professional level metering. These units contain 4 audiophile-quality drivers and three 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 500 Hz crossover point.

These units feature eight 26-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, 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 that automatically mutes the speakers.

These units are ideally suited for use in space-critical environments such as TV facilities, studios, VTR bays, mobile production vehicles, satellite links and indeed, any rack mount environment where multi-channel audio monitoring is required.

## Features

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

Headphone jack (mutes speakers)

Optional AES balanced output from SDI (DB-25) replaces standard AES unbalanced output (HD-15)

Audible indications of phase/polarity problems

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

Premium quality drivers and power amplifiers

Phase-correlation display of selected channels

Output limiter protected speakers

## Order Part Number

AMP1-S8MDA-3G: 8101-0090

## Benefits

Thorough magnetic shielding prevents interference from nearby equipment.

Electronic cancellation provides detection of out-of-phase (reversed polarity) audio feeds.

Excellent frequency response and low distortion

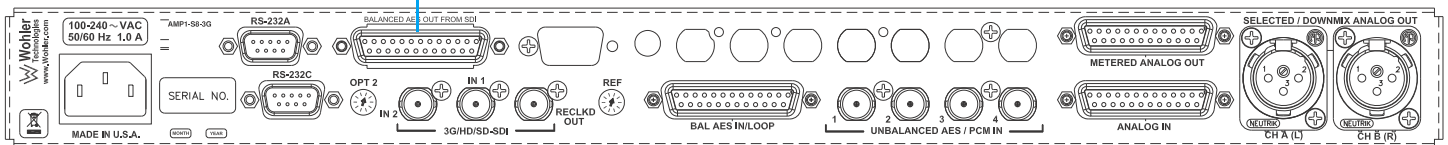
Focused sound, reduces adjacent bay crosstalk

Ultra near-field offers exceptional monitoring performance.

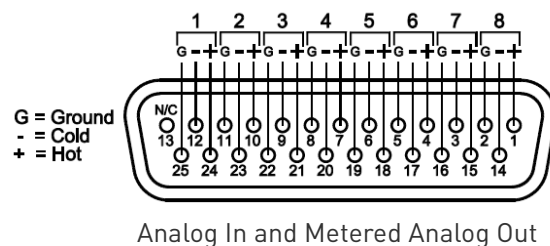
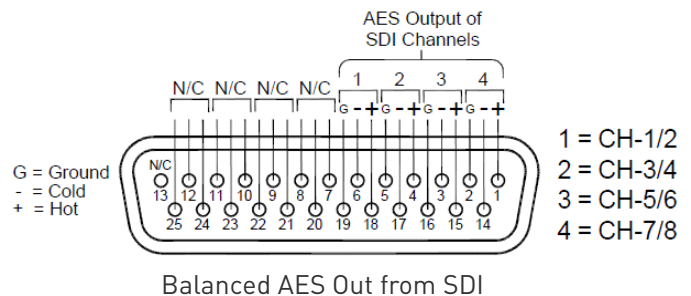
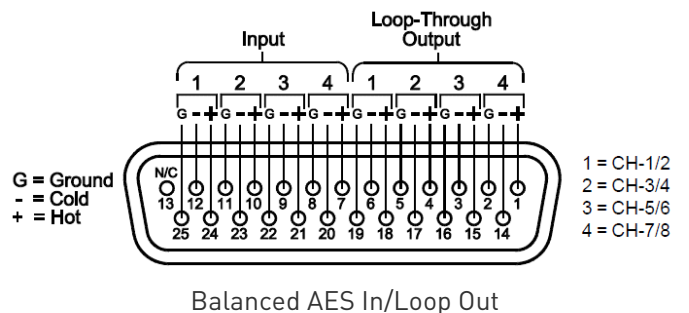
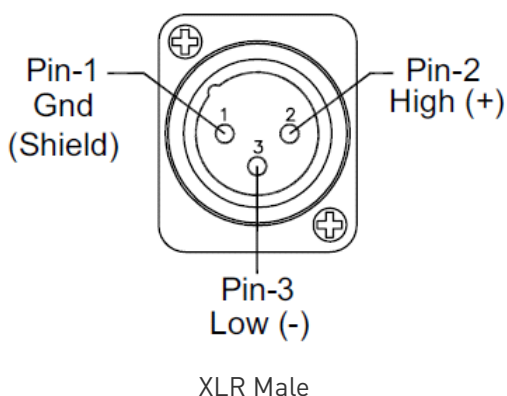
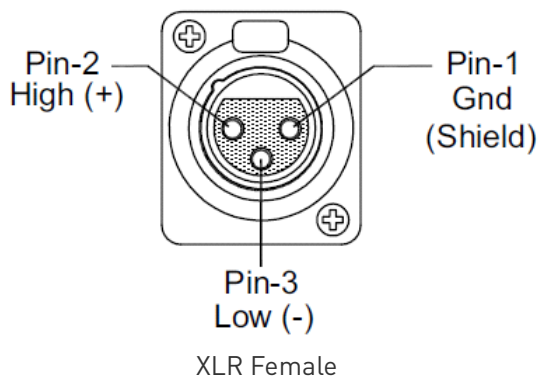
Small rack space requirements make them perfectly suited for use in space-critical environments

## Rear Panels

Standard output, unbalanced AES (HD-15), can be replaced with balanced AES output from SDI (DB-25) (shown).



## Selected Pin-Outs



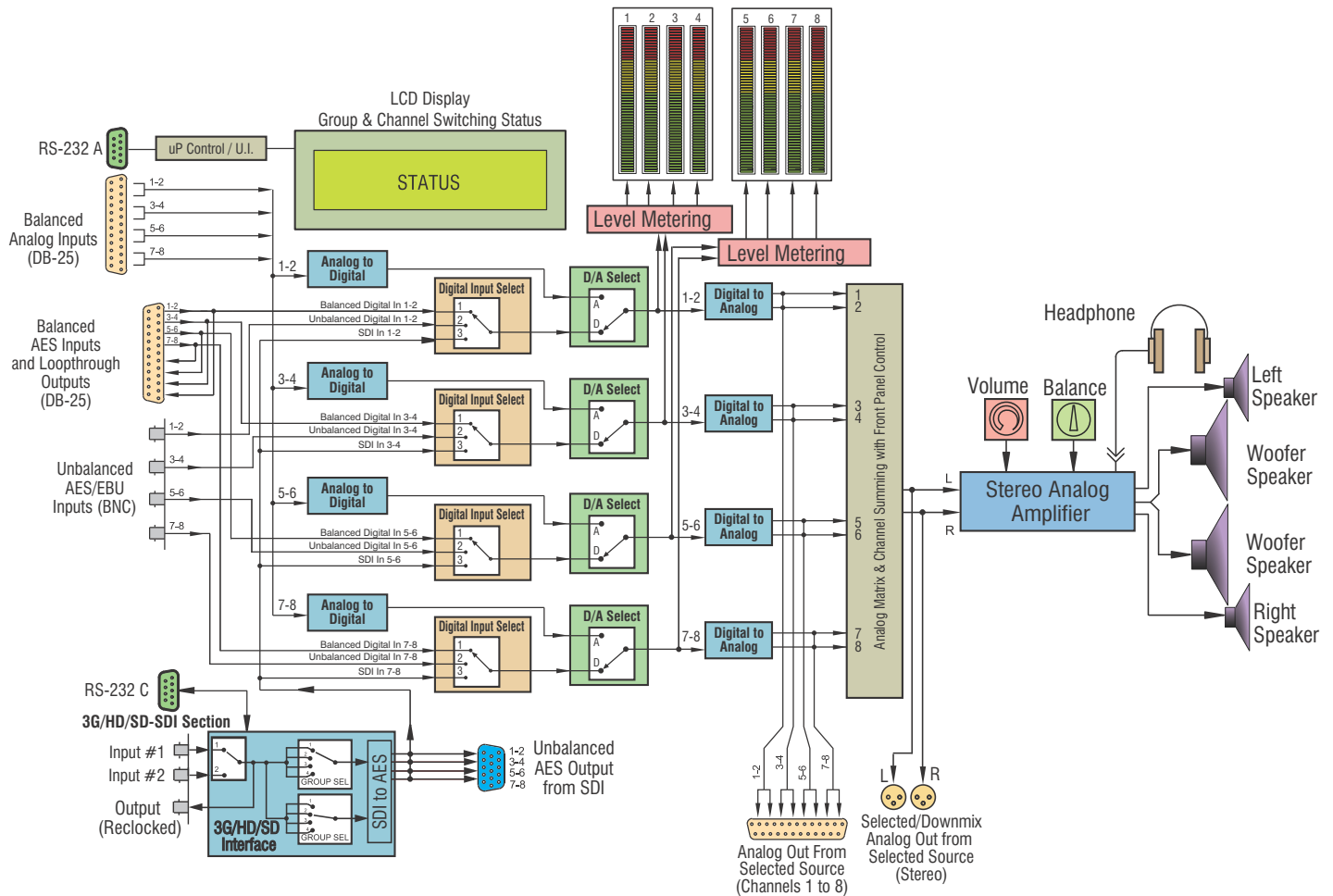
## Physical Specifications

<b>Dimensions (H x W x D)</b>	1RU Units: 1.75" x 19" x 11" (4.5 mm x 483 mm x 279 mm)
<b>Shipping weight</b>	1 RU Units: 13 lbs (5.9 kg)
<b>Space requirements</b>	1 RU in a standard 19" rack
<b>Supplied accessories</b>	AC external power cord
<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 V AC $\pm$ 10%, 50/60Hz.
<b>Power Consumption</b>	60 W

## Technical Specifications

<b>Inputs</b>	8 balanced analog (DB-25) 4 balanced AES/EBU pairs (DB-25) 4 unbalanced AES pairs (4 BNCs) 2 3G/HD/SD-SDI (2 BNCs) (Level A only)
<b>Outputs</b>	1 3G/HD/SD-SDI re-clocked (BNC) 4 balanced AES pairs loop out (DB-25) 4 unbalanced AES out from SDI (HD-15) or Option: 4 balanced AES out from SDI (DB-25) 8 balanced metered analog out (DB-25)
<b>Other rear panel connectors</b>	2 RS-232 (DB-9)
<b>Level meters</b>	8 26-segment
<b>Level meter scale</b>	0 to -66 dB
<b>Level meter threshold</b>	0, +4, +6 or +8 dBv, switch selectable
<b>Level meter dynamics</b>	simultaneous VU and PPM
<b>Midscale resolution</b>	1 dB
<b>Peak acoustic output at 2 feet</b>	104 dB SPL
<b>Distortion</b>	Electrical: <0.15% at any level below limit threshold Acoustic: 6% or less worst case frequencies above 140 Hz including cabinet resonance, typically <1.5%
<b>Magnetic shielding</b>	<0.8 gauss any adjacent surface

## Block Diagram



## Contact

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