

# AMS4

SELECT SERIES  
AUDIO MONITOR SYSTEM



AMS4-1AA REAR



AMS4-1AAM REAR



by Ward-Beck Systems

# **AMS4**

## **AUDIO MONITOR SYSTEM**

**This is one of many products in the SELECT SERIES line of high quality and high performance broadcast products from WARD-BECK SYSTEMS.**

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The AMS4 is a versatile one rack unit audio monitor system. It can be used to monitor analog audio, AES digital audio and SDI embedded audio. The SDI demuxer may be added as an option. The AMS4 features an 8 x 1 input switcher (four analog sources, four AES sources) with auto recognition of 75 or 110 ohm AES signals. A direct, balanced, stereo analog audio output of the switcher is available on the rear panel. In addition a 10-segment LED stereo VU meter and phase indicator is included. The AMS4 offers full range acoustic monitoring and may be muted via external control.

Two front panel pushbutton switches, MODE and SOURCE, and dot-matrix LED readout allows the user to select the source to be monitored. The MODE switch steps through analog, AES digital and SDI modes while the SOURCE switch selects the input from that group. Use A1 through A4 for analog, D1 through D4 for AES and SA1 through SA8 as well as SB1 through SB8 for embedded signals. On power down, the last selection is stored in memory.

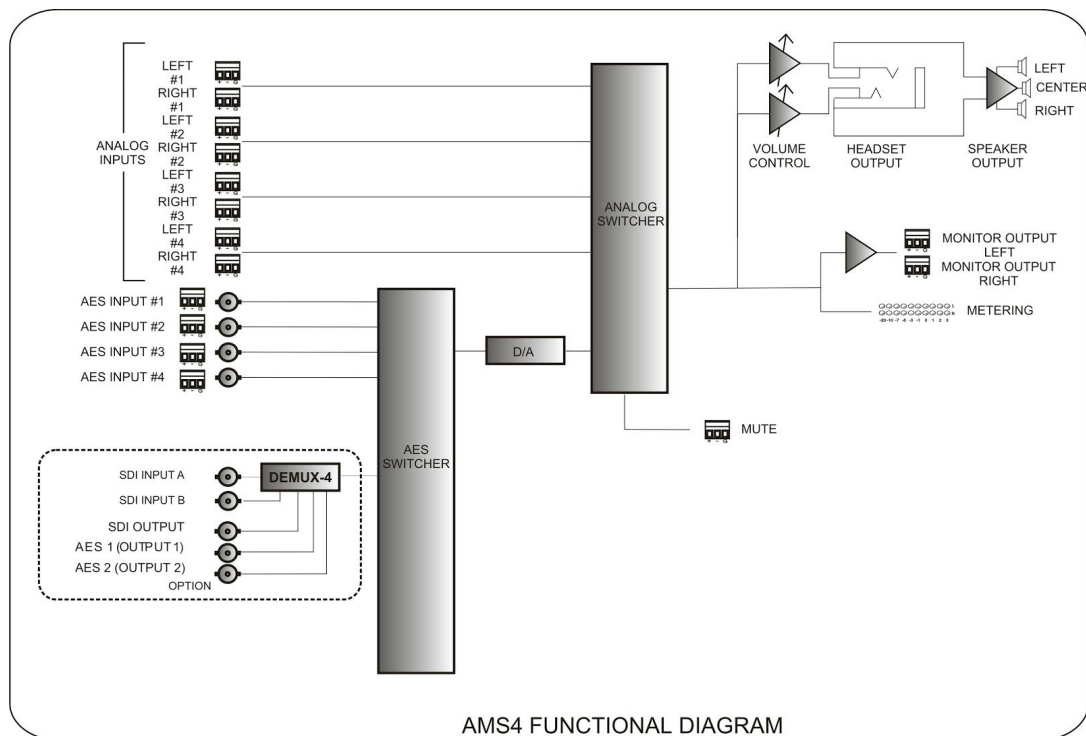
If a signal is lost or corrupted in the AES digital and SDI modes the display will alternate between the source selection and the letters NL, signifying no lock. In the SDI mode, a flashing number in the source ID code signifies that embedded audio is absent.

The AMS4 will automatically detect whether the AES/EBU digital signal is balanced (110 Ohms) or unbalanced (75 Ohms). In the event that both a balanced and unbalanced signal is connected simultaneously to the same AES input, random selection between the two sources will occur.

A convenient front panel mounted TRS ¼" headset jack is provided. The speaker feeds are routed through this jack to automatically mute the speakers when a headset is plugged in.

Connections to the AMS4 are made on convenient pluggable screw terminals for the balanced inputs and outputs (analog and digital) while unbalanced digital inputs and SDI inputs are made on 75 Ohm BNC connectors. When the SDI option is installed, an active loop-through providing a re-clocked, equalized SDI signal is available on the rear panel. If the DEMUX option is ordered, AES 1 and 2 will be two AES output pairs of embedded audio from the group being monitoring.

The EXT MUTE IN requires a closure to ground to mute the monitor. Once muted, the display window of the AMS4 will alternate between the selected source ID and the word MUTE. The open collector output EXT MUTE TALLY pin will be activated. Connections to the external mute control and tally are available on the rear panel pluggable screw terminal.



## SPECIFICATIONS

### DIGITAL

Input Standard	AES/EBU 110Ω transformer balanced screw terminal or 75Ω unbalanced BNC
Input Level	0.2-5V p-p
Sampling Frequency Range	30kHz to 50kHz
Meter Level	0VU = -20dBFS (or specify when ordering)

### ANALOG

Input Impedance	>20kΩ balanced
Input Level	+24dBu max
Meter Level	0VU = +4dBu(or specify when ordering)

### SDI

Input Impedance	75Ω
Input Level	0.8 Vp-p (typical)
Output Level	0.8 V p-p
Output Impedance	75Ω
Data Rate (Demux-4)	270-1485-2970Mbps

### GENERAL

Open Collector Output	10Ω 24V 25 mA MAX
Power Requirements	115 VAC,60Hz (Available upon request) 230 VAC,50Hz
Dimensions	19" wide x 1¾" high x 10¾" deep (483mm x 44mm x 273 mm)
Weight	4.5kg (10 lbs)

*Ward-Beck Systems Ltd. reserves the right to change performance specifications without prior notice.*

## **WARRANTY**

All Ward-Beck Systems Ltd. products are warranted against defective materials and workmanship for a period of one year from the date of shipment.

Ward-Beck Systems Ltd. will repair or replace, at its option and without charge, all said products or parts thereof which upon factory inspection prove to be defective during the warranty period, provided that:

1. The original serial numbers are intact and have not been tampered with.
2. The purchaser shall return any equipment or parts thereof to Ward-Beck Systems Ltd. only after obtaining prior authorization and shipping instructions from the factory. (Ward-Beck Systems Ltd. reserves the right to inspect or repair equipment on the purchaser's premises).
3. The purchaser assumes the obligation for all expenses in connection with the shipping and return of such goods, once authorization has been obtained.

This warranty does not cover items normally considered expendable, such as fuses and lamps.

This warranty does not cover damages caused by misuse, accident, neglect, unauthorized alteration, repair by unauthorized personnel, or damage caused by an act of God, war, or civil insurrection.

In no event shall Ward-Beck Systems Ltd. be liable for consequential damages. Ward-Beck Systems Ltd. shall have the rights to final determination as to the application of this warranty.

Ward-Beck Systems Ltd. reserves the right, at any time and without notice, to make changes in its equipment, components, specifications or designs, as may be warranted by progress in state-of-the-art technology.

Ward-Beck Systems Ltd. reserves the right to make design changes, additions to, and improvements in its products, without obligation to install such revisions in products previously manufactured.

The warranty set forth herein is in lieu of all other warranties expressed or implied, including the warranties of merchantability and fitness.

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