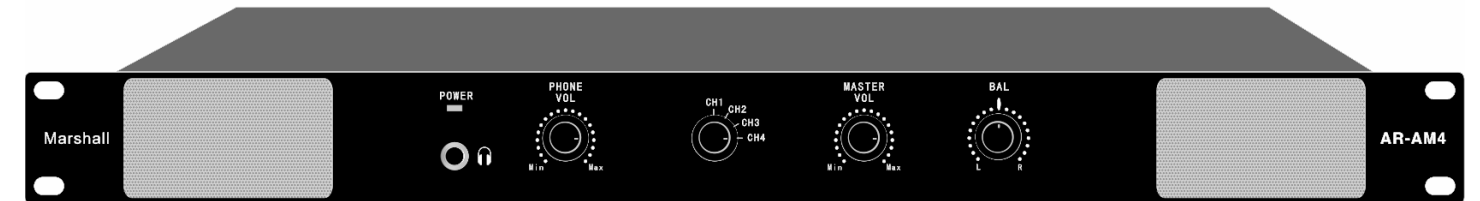## Warranty

Marshall Electronics warranties to the first consumer that this **AR-AM4** Audio Monitor will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of one year from the purchase date. This warranty is extended to the first consumer only, and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right not to honor the warranty set forth above. Therefore, labor and parts may be charged to the consumer. This warranty does not apply to the product exterior or cosmetics. Misuse, abnormal handling, alterations or modifications in design or construction void this warranty. No sales personnel of the seller or any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above. Due to constant effort to improve products and product features, specifications may change without notice.

2009-0316

Marshall Electronics

AR-AM4

Analog Audio Monitor

Operating Instructions

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Input / Output

- **ANALOG STEREO INPUT (x 4)**
  XLR 3-pin Female   +4dBu nominal level (balanced differential)

- **ANALOG STEREO OUTPUT (Selected)**

  Outputs: 2 x Analog (Balanced XLR)
  Reference: Active balanced from selected Audio Input

Specifications
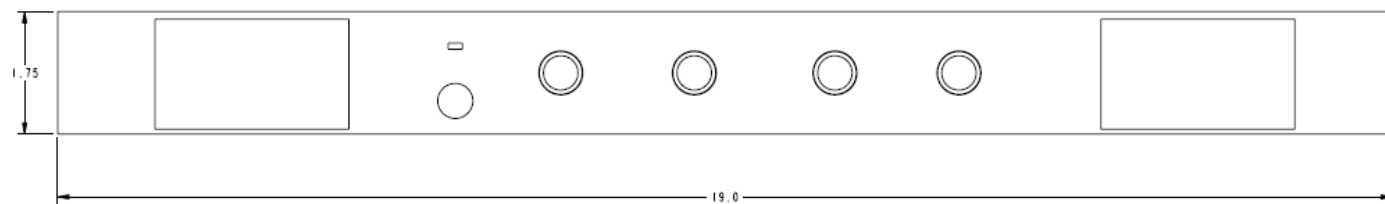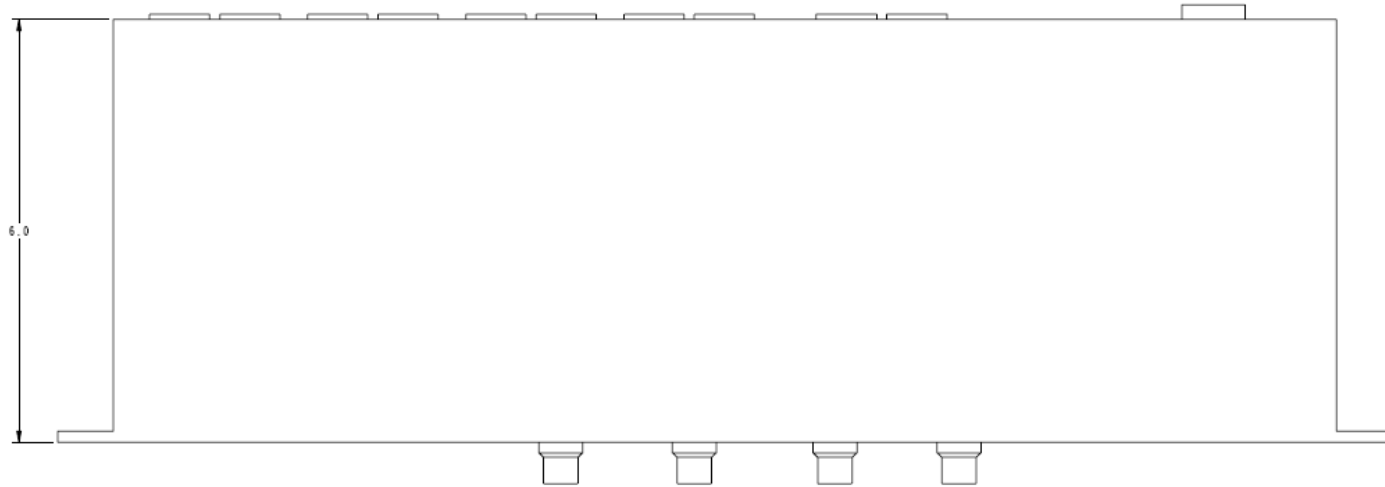
AR-AM4 Audio Monitor

- **ACOUSTIC**

Speaker Power Output:	Left/Right RMS @ 4Ω: 3W RMS, 5W Peak
Peak Acoustic Output:	99 dB SPL @ .1m
Headphone Power Output:	150 mW

- **ELECTRICAL**

Power Consumption:	40W
Voltage Requirement:	29VDC
Included Power Supply	
AC Input:	100V-240V, 1.0A, 50-60Hz
DC Output:	29VDC, 1.65A,

- **MECHANICAL**

Dimensions (w x h x d):	19.0" x 1.75" x 6.0"
Rack Height:	1 RU
Weight:	4.55 lbs. (2 kg)

Contents

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Basic Operation

Overview

Basic operation of the AR-AM4 Audio Monitor involves connecting audio sources, and monitoring through the stereo speakers.

The user can choose between listening to the amplified internal speakers, or headphones. Audio volume can be adjusted from front panel controls.

There are four (4) separate stereo input channels. One can be selected at any time from the front panel.

Controls

- **Volume Control**

  The **VOLUME** control affects only the stereo speakers.

- **Channel Select**

  The **Channel Select** controls which of the four inputs is selected to the speakers, headphones and rear XLR Outputs.
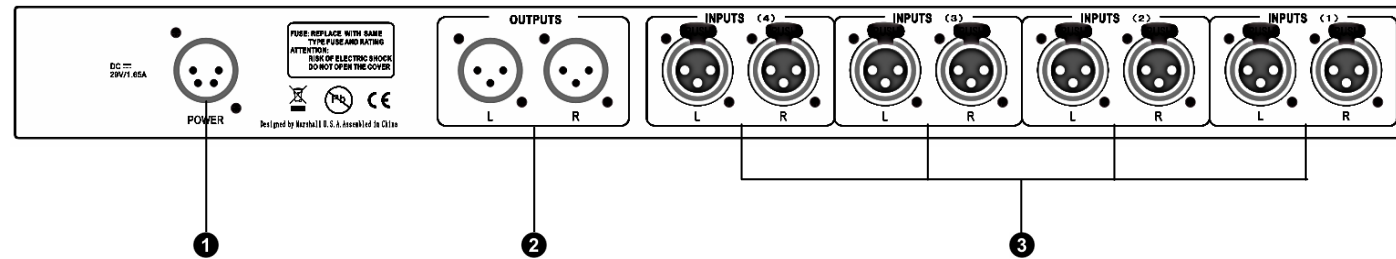
- **Balance Control**

  The **BALANCE** control adjusts the relative levels of the **LEFT** and **RIGHT** channels of the input, affecting both the stereo speakers and headphone output.

- **Headphone Output**

  The headphone output accepts standard stereo headphones with a 1/4" TRS connector. Headphones with an 1/8" (3.5mm) mini-plug connector may be used with an adapter. NOTE: The stereo speakers are NOT muted when a connector is plugged into the headphone output. Headphones are not included with this unit.

Rear Panel Features

❶ Power Input Connector
Use only the included power supply to power the AR-AM4 audio monitor.

❷ Audio Outputs
XLR- 3pin male connector. Balanced audio out is same level as XLR audio input. This is an active output from the selected Audio Input.

❸ Audio Inputs
XLR - 3pin female connector. Balanced audio in. Pin 1= ground, Pin 2= Signal +, Pin 3= Signal -

Product Overview

The AR-AM4 is a four-channel stereo analog audio monitoring system. Designed for ultra-near field audio monitoring in space critical environments, the AR-AM4 is ideal for TV facilities, studios, post-production facilities, VTR bays, mobile production vehicles, satellite links, and wherever analog audio monitoring is required.

The AR-AM4 features stereo loudspeakers in a compact 1RU form factor, with analog amplification and digital processing providing pristine audio quality.

Features

- **Selectable Inputs**
  Choose between 4 independent sets of stereo inputs.

- **Superior Audio Quality**
  Stereo Loud Speakers provide superior audio quality in a compact 1RU form factor.

- **Digital Processing**
  Digital signal processing provides speaker protection.

- **Stereo Headphone Output**
  ¼" stereo headphone jack located on front panel.

Installation and Initial Setup

Unpacking

Carefully unpack the AR-AM4 audio monitor and verify that the following items are included:

- AR-AM4 Audio Monitor
- Power Supply with 4-Pin XLR Connector (29VDC)
- AC Power Cable
- Operating Instructions

Inspect the unit for any physical damage that may have occurred during shipping. Should there be any damage, immediately contact Marshall Electronics at (800) 800-6608. If you are not located within the continental United States, call +1 (310) 333-0606.

Audio Monitor Installation

The AR-AM4 audio monitor can be installed in an EIA-standard 19-inch rack. At only 6" inches deep, the AR-AM4 can also be installed in many shallow racks cases. Alternately, the AR-AM4 audio monitor can be placed on any level surface. *For optimum sound quality, the audio monitor should be installed at ear level.*

Quick Start Guide

1. Connect an Audio Source
Connect an audio source to any of the 4 pairs of rear panel input connectors. We recommend the use of the Balanced XLR female connectors using a balanced audio signal with a nominal level of +4dBu.

2. Power On the Audio Monitor
Supply power to the audio monitor by connecting the included power supply to an AC power source (100-240 V @ 50/60 Hz) and connecting the power supply's 4-pin XLR connector to the back of the audio monitor. The Power LED on the front panel will illuminate green.
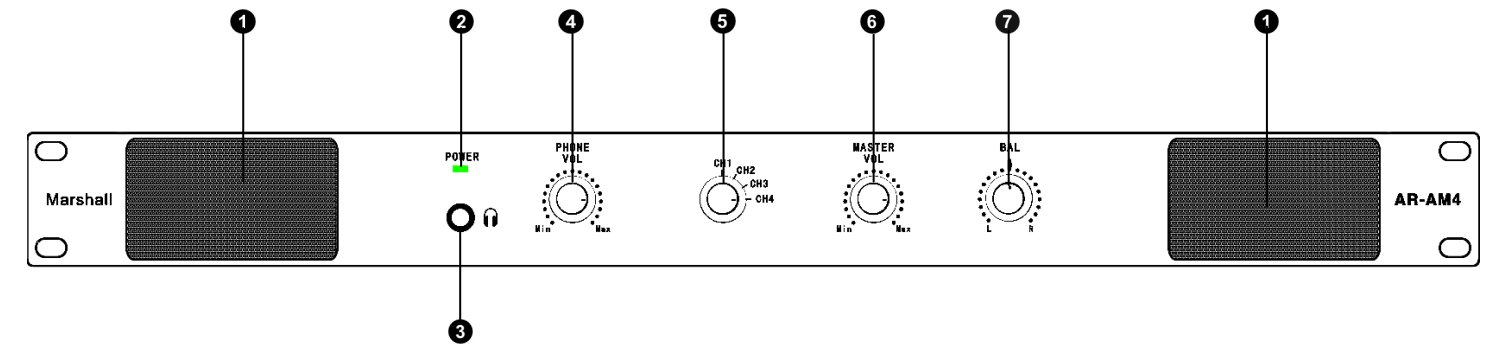
3. Select Input Channel
Use the **Input Select** controls to choose one of the four inputs.

4. Adjust the Volume and Balance
Use the **Volume** and **Balance** controls to adjust the sound level and stereo balance.

Front Panel Features

❶ **Stereo Loudspeakers**
The stereo loudspeakers are always active regardless of connected headphones.

❷ **Power Indication LED**
The power LED will illuminate green when power is supplied to the audio monitor.

❸ **Headphone Output**
The headphone output accepts stereo headphones with a 1/4" TRS connecter.

❹ **Headphone Volume Control**
The headphone volume control affects only the stereo headphone jack.

❺ **Input Select**
Rotate knob to switch between input channels 1 through 4.

❻ **Master Volume Control**
The master volume control affects only the stereo speakers.

❼ **Balance Control**
The balance control adjusts the relative level of each left and right input to the speakers and headphones.