

## In-Rack Stereo Audio Monitors



### GENERAL FEATURES

AEQ's AM-03 and AM-04 audio confidence monitors are intended for use in VTR rooms, OB Vans, Television and Radio Control Rooms, and Media Systems – anywhere it's necessary to monitor the presence and quality of high density audio and video signals.

All user controls are conveniently located on the equipment's front panel, allowing quick, easy, and error-free setup, control, and operation. Controls consist of easy to use switches and potentiometers which alleviates having to navigate through menus.

Both the AM-03 and AM-04 are only one rack unit (1 RU), and include magnetic isolation for use near CRTs and video monitors. Despite their compact footprint, both units offer excellent audio quality because of their multi-stage amplifiers in each channel. The AM family of audio monitors also include basic audio measurement indicators.

The AM-03 and AM-04 both have high quality stereo line output and headphone jacks, giving the user quick access to the audio being monitored.

#### A Model For Each Work Environment

The **AM-03** is the perfect choice when monitoring analog audio. It offers 6 electronically balanced stereo analog inputs, 1 headphone output (with speaker disconnect) and 1 analog stereo output. The AM-03 V2 also has signal presence and phase indicators.

The **AM-04** is the ideal solution when working with diverse audio formats such as analog, digital AES-EBU, and embedded audio in SDI video signals. The AM-04 can be used to derive all integrated audio channels from SDI video signals. The AM-04 offers 4 analog audio inputs (2 stereo signals), 2 stereo AES EBU digital inputs, and 1 video SDI input (where stereo audio pairs are acquired). The AM-04 also provides: 1 analog stereo pair output, 1 high quality headphone output, 1 composite video output, 2 digital AES outputs, and 4 analog audio outputs (derived from the SDI video input). The AM-04 provides over/under level and sustained out-of-phase alarm capabilities, as well as 2 phase indicators and 2 VU meters with user assignable scale, adjustable color transition points, and peak-hold capability.


**Common characteristics:**

- Switch and potentiometer controls.
- Stereo output monitoring with parallel output.
- Headphone connector with automatic speaker disconnect.
- Multi-stage audio amplifiers, and 2-way speakers.
- Built-in limiter for speaker protection.
- Universal auto-ranging power supply: 90 - 250 VAC, 50/60 Hz, 70 VA.
- Dimensions: 1 RU  
482,6 mm x 44,5 mm;  
19" x 1-3/4".

**AM 03 Characteristics:**
**Inputs:**

- 6 stereo analog audio inputs, switch selectable on the front panel. Electronically balanced, with RF filter. Impedance: >100K Ohms. Nominal level: 0 dBv. Male Hartmann connectors with solder-free type mating connectors included.

**Outputs:**

- 1 stereo parallel analog audio output (to the selected input), with direct cable connection.
- 8 - 600 Ohm stereo headphone jack. (female 1/4"), with automatic speaker disconnect.

**Controls:**

- Input selector (1, 2,3,4,5 or 6).
- Output channel selector (L/R) and balance.
- Volume gain control.

**Measurement:**

- Signal presence indicator.
- Audio signal phase meter: a 25 led matrix, in a 5 x 5 configuration.

**AM 04 characteristics:**
**Inputs:**

- 4 analog mono inputs, free grouped in stereo pairs for listening and routing to parallel monitoring output. Electronically balanced with RF filter. Impedance > 25K Ohm. Selectable level. XLR3 female connector.
- 2 digital AES-EBU stereo inputs, free grouped in stereo pairs (selectable on front panel) for listening and routing to parallel monitoring output. Transformer balanced. Impedance: 110 Ohm. XLR3 female connector.
- 1 SDI video input, used to extract 4 analog mono inputs, that can be free grouped in stereo pairs (selectable on front panel) for listening and routing to parallel monitoring output. Impedance: 75 Ohm. BNC connector.

**Outputs:**

- 1 stereo analog monitor output for the selected input signal. 2 XLR male connectors. Impedance: 50 Ohm balanced.
- 8 - 600 Ohm stereo headphone jack. (female 1/4"), with automatic speaker disconnect.
- Simultaneously extract analog and digital audio from SDI signal. 4 analog and 2 digital AES-EBU pairs. DB-15 connector.
- Composite video from SDI signal input. BNC connector.

**Controls:**

- Analog, digital AES-EBU, SDI group 1, SDI group 2, SDI group 3, SDI group 4, audio input selector.
- 4-position left speaker audio selector.
- 4-position right speaker audio selector.
- L / R balance control.
- Volume control.
- Signal presence alarm activation and reset switch.
- SDI video selector: PAL or NTSC.

**Measurement:**

- 2 sets of high resolution, 26 tri-colour led, stereo VU level meters with adjustable color transition points, peak-hold, and phase indicators. Six standard scales and ballistics, user assignable: AES, DIN, BBC, VU, VU Extended and Nordic.

**Alarms:**

- Alarm output for audio over/under level and sustained out-of-phase detectors, TTL format, via DB-9 connector.

**RS-232 Data Via DB-9 Connector. Functions:**

- Alarm status information and control.
- VU meter color configuration.
- Remote switch - alternative to front panel controls.