

# AMS-100 Series Analog & Digital Audio Monitor



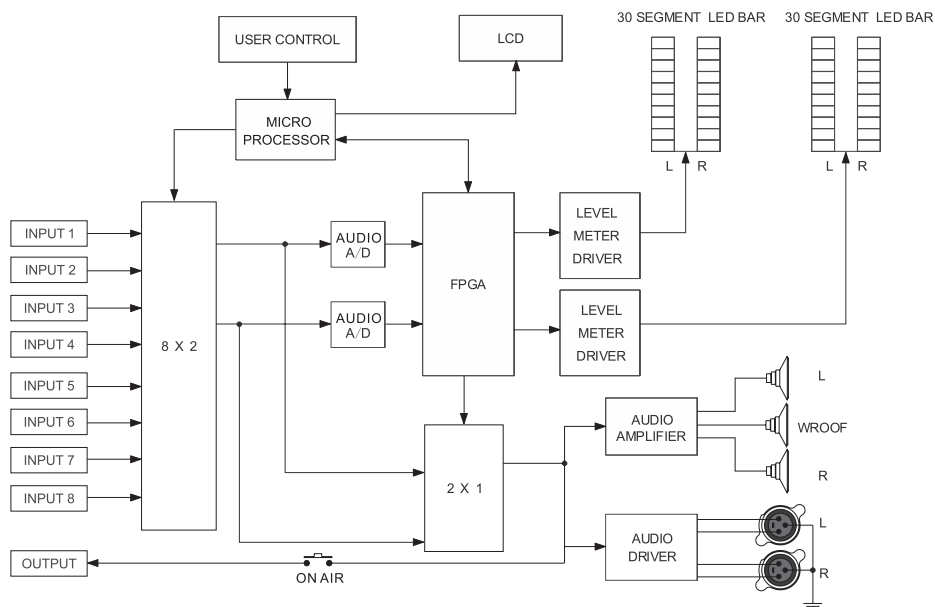
AMS-100 series is ideal for monitoring and detecting various audio signals in TV broadcast control center, studio and other applications.

## FEATURES

- Frame: 2RU high, 19 in. wide
- Modular design
- Input signal format: Analog stereo audio, AES/EBU digital audio, HD/SD-SDI (embedded audio)
- Input channel is selected via the button of its front panel
- Selectable 1 channel analog stereo monitoring output (XLR interface)
- Different output modules for outputting any format audio signal
- Four 30-segment LED bargraphs display (VU and PPM value)
- One headset output interface
- Monitoring volume & L/R channel balance adjustable
- Operation menu with LCD display

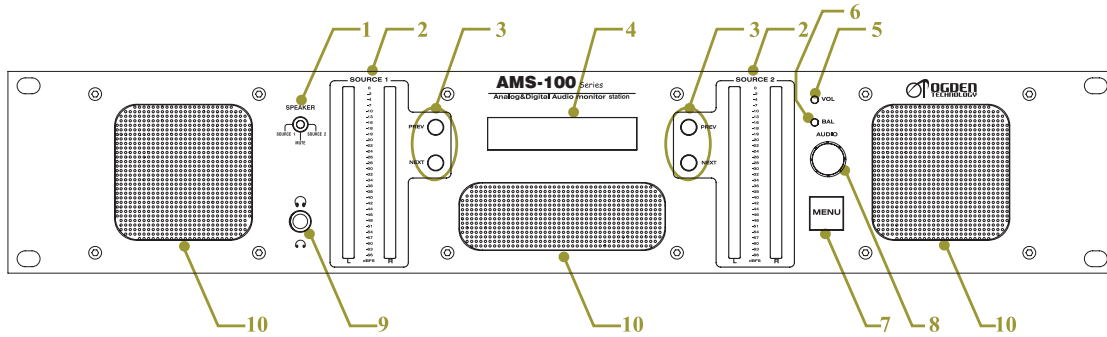
AMS-100 series audio monitor supports HD/SD-SDI (embedded audio), AES/EBU and analog audio. The product adopts flexible modular design. There are 8 input slots and 1 output slot. Input modules are chosen according to format and number of the desired monitor signals. The signals which need monitoring can be selected via the buttons of its front panel. The VU and PPM value of 2 channel input stereo audio signals can be monitored simultaneously via the four 30-segment LED bargraphs. 3 hi-fi monitoring speakers can monitor any channel signal via the selecting switch of its front panel. The volume of monitored audio can be adjusted on its front panel. AMS-100 series itself supports analog audio output. If audio in other format is needed, just insert the output module in the corresponding format. Output volume is adjustable.

## BLOCK DIAGRAM



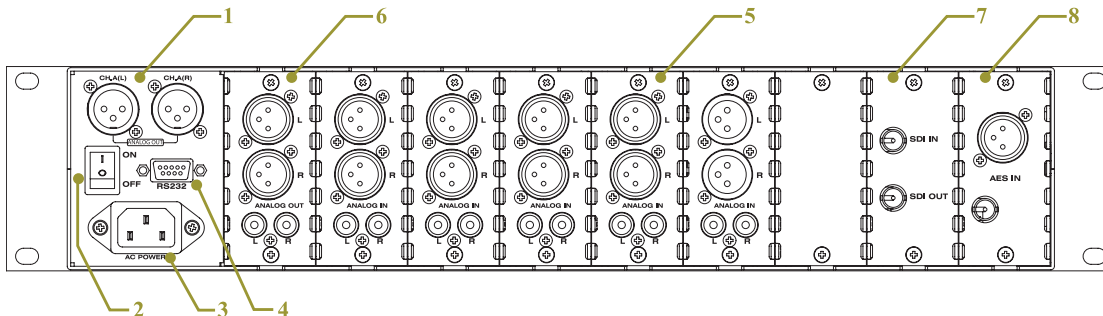
# AMS-100 Series Analog & Digital Audio Monitor

## FRONT VIEW



1. Switch for monitoring selection
2. LED bargraph display
3. Button for monitored channel selection
4. LCD for displaying the operation status
5. Volume adjustment LED indicator
6. Balance adjustment LED indicator
7. Button for menu selection
8. Knob for function selection & volume adj.
9. Headset jack
10. 3 hi-fi speakers

## REAR VIEW



1. Output interfaces for monitoring balanced analog audio  
XLR×2: connects external sound device, such as headset and sound
2. ON/OFF button
3. Power supply input terminal, connects 80 ~ 260 V AC power
4. RS-232 interface
5. Analog audio input module  
XLR×2: Input interfaces for balanced L & R channel analog audio  
RCA×2: Input interfaces for unbalanced L & R channel analog audio
6. Analog audio output module  
XLR×2: Output interfaces for balanced L & R channel analog audio  
RCA×2: Output interfaces for unbalanced L & R channel analog audio
7. HD/SDI-SDI with embedded audio input module  
BNC×2: One is HD/SDI-SDI with embedded audio input interface, the other is loop-thru interface
8. Rear panel of digital audio input module  
XLR×1: Input interface for balanced digital audio  
BNC×1: Input interface for unbalanced digital audio

# AMS-100 Series Analog & Digital Audio Monitor

## SPECIFICATIONS

### Mechanical

Width.....19 in. (483 mm)  
Height.....2RU (88 mm)  
Depth.....14 in. (350 mm)

### Electrical

Power Supply.....80 ~ 260 V AC  
Power Consumption.....<50 W

### Environmental

Operating Temperature.....32° ~ 104° F (0° ~ 40° C)  
Relative Humidity.....10% ~ 90%

### Analog Audio Input Module

#### Balanced Input

Connector.....XLR (×2)  
Impedance.....>40 kΩ  
Level.....+24 dBu (Max.)  
Maximum Undistorted Level.....0 dBu

#### Unbalanced Input

Connector.....RCA (×2)  
Impedance.....>20 kΩ  
Level.....+18 dBu (Max.)  
Maximum Undistorted Level.....0 dBu

### Digital Audio Input Module

#### AES/EBU (balanced)

Connector.....XLR (×1 )  
Impedance.....110 Ω  
Level.....2 ~ 7 Vp-p  
Maximum Undistorted Level.....-24 dBFS

### AES-3id (unbalanced)

Connector.....BNC (×1)  
Impedance.....75 Ω  
Level.....1 Vp-p ±10%  
Maximum Undistorted Level...-24 dBFS

### Digital Video Input Module

Signal Format.....SMPTE 259M SD-SDI & SMPTE 292M  
HD-SDI  
Embedded Audio.....In accordance with SMPTE 272M  
& SMPTE 299M standard  
Connector.....BNC (1 channel, supports loop-thru)  
Impedance.....75 Ω  
Maximum Undistorted Level...-24 dBFS

### Level

Level LED Indicator.....4×30-segment LED  
Level Indicator Connector.....-66 ~ 0 dBFS

### Speaker Output

#### L/R Channel

Impedance.....8 Ω  
Maximum Power.....20 W  
Frequency Range.....500 Hz ~ 20 kHz

#### Middle

Impedance.....8 Ω  
Maximum Power.....20 W  
Frequency Range.....80 Hz ~ 500 Hz

## ORDERING INFORMATION

AMS-100-FM-2RU	AMS-100 series ML-802 analog & digital audio monitor
AMS-100-SDI	SD-SDI with embedded audio input module
AMS-100-HD/SD-SDI-IN	HD/SD-SDI with embedded audio input module
AMS-100-AES-IN	AES/EBU digital audio input module
AMS-100-A-IN	Analog audio input module
AMS-100-A-OUT	Analog audio output module