

**Description:**

AMS160H audio monitoring system is specially designed for broadcast quality audio monitoring.

AMS160H can process HD/SD-SDI, embedded SDI audio, balanced/unbalanced AES digital audio and analog audio. The AMS160 features two 26-segment tri-color LED level meters showing VU&PPM simultaneously, and two high fidelity speakers for monitoring with adjustable volume and balance.

AMS160H also provides the headphone jack for monitoring, and the speakers will be automatically muted in no time when the headphone jack is connected.

AMS160H can test the PHASE/INVERTER of the audio track in real time with LED indication.

AMS160H adopts 1RU standard 19" rack unit, compact configuration, high fidelity audio replay and accurate level indication, which make the AMS160H be of good application in TV broadcast center and studio.



**Specifications:** specifications are subject to change without notice

**Serial Digital Video Input**

Quantity	2
Standards	SMPTE 292M HD-SDI or SMPTE 259M SD-SDI
Connector	BNC, IEC 169-8
Impedance	75 ohms
Return Loss	>18 dB(5MHz~1485MHz, HD-SDI) >18 dB(5MHz~270MHz, SD-SDI)
Signal Level	800mV ±10%

**Serial Digital Video Output**

Quantity	1
Standards	SMPTE 292M HD-SDI or SMPTE 259M SD-SDI
Connector	BNC, IEC 169-8
Impedance	75 ohms
Return Loss	>18 dB(5MHz~1485MHz, HD-SDI) >18 dB(5MHz~270MHz, SD-SDI)
Signal Level	800mV ±10%
DC level	0.0 V ±0.5 V
Overshoot	< 10% of amplitude
Rise and Fall Time	<0.3ns, HD-SDI 0.4 to 0.8ns(20% to 80% of amplitude), SD-SDI
Jitter	>100KHz: <135ps 10Hz~100KHz: <675ps, HD-SDI <0.2UI(740ps)peak-peak value. SD-SDI

**Balanced AES Input**

Quantity	1
Standard	AES 3
Types	balance. transformer coupled
Connector	3-PIN. connector*
Sensitivity	<200mv
Impedance	110 ohms ±20%(0.1~6MHz)
CMR ratio	0V to 7V(0~20KHz)
Sampling rate	48KHz
Bits	16,20,24

**Features:**

- ▶ 19", 1RU rack unit high
- ▶ 2 HD/SD-SDI inputs, 1 balanced AES input, 1 unbalanced AES input, 2 analog audio inputs
- ▶ User selectable input sources, any input can be monitored and indicated by level meter
- ▶ Any audio pair in any audio group of embedded SDI can be selected to be monitored
- ▶ 2 audio signals monitoring and level displaying simultaneously.
- ▶ Two 26-segment tri-color level meters displaying VU&PPM
- ▶ Inspection and LED indication of audio track PHASE/INVERTER  
Manually volume and balance control
- ▶ Wide frequency response speaker with anti-magnetic design
- ▶ Headphone jack
- ▶ AES and analog audio monitoring outputs

**Unbalanced AES Input**

Quantity	1
Standard	AES 3. SMPTE 276M
Type	unbalance, transformer coupling
Connector	BNC, IEC 169-8
Sensitivity	<200mv
Impedance	75 ohms
Return Loss	>25dB, 0.1~6MHz
Sampling rate	48KHz
Bits	16,20,24

**Analog Audio input**

Quantity	1
Sampling rate	48KHz
Connector	3-PIN,connector*
Maximum Level Input	24 dBu (balanced)
Maximum Adjustable Range	16 to 24 dBu
Input Impedance	>30Kohms
THD+N	-95dB. 20-20KHz@ -3dBFS
Frequency Response	20 Hz - 20 kHz: 0 ±0.15 dB
Crosstalk	-90dB(20-20KHz)

**Level Meter**

Quantity	2
Display	26-segment
Scale	0 to -48dBFS(AES), +12dB to -50dB(VU)
Dynamics	VU & PPM simultaneous
Level Meter Threshold	0 VU to -12/-18/-20/-24dBFS, can be set via DIP switch Midscale
Resolution	2dB

**Speaker**

Quantity	2
Power	10W

### Headphone Output

Quantity	1
Connector	stereo headphone jack
Power	150mW / channel

### Others

Installation	1RU, 19" rack unit
Power Consumption	< 30W
Power Supply	100-240 VAC, 50/60Hz
Dimensions (HxWxD)	44.5x483x260mm

### Ordering Information:

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AMS160H	Audio Monitoring System
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