

BM-AV2-16SHD

In-Rack Monitoring



FEATURES

- High-quality 16 channel in-rack audio monitor with high-quality 5" video display.
- Auto-selection of 3G/HD/SD input source via two SDI inputs with loop-through.
- Comprehensive I/O facilities, including 2 x SDI, 8 x AES-3id pairs, 10 x analogue.
- 16 channel monitoring with ability to monitor any channel on either speaker, including combinations and groups.
- Able to be upgraded to include Dolby® E, Dolby® Digital and Digital Plus decoding.
- High resolution, tricolour level meters with adjustable colour transition points & peak-hold facility. Four standard scales & ballistics, user assignable.
- Auto-scaling facilities are available on the audio outputs when selecting multiple sources.
- Designed to exceed current EMC directives.
- Fully RoHS compliant and 3 year warranty.

INTRODUCTION

The BM-AV2-16SHD is a 2U high-quality in-rack monitor, capable of monitoring video and multi-channel audio sources. This class leading product builds on Bel's reputation for providing very high quality and reliable broadcast solutions.

The BM-AV2-16SHD provides a pair of auto-detecting 3G/HD/SD SDI inputs and accepts 10 analogue audio inputs (channels one and two are provided with two summing inputs each) and 8 AES-3id pairs. A high-quality 5" video display is also provided to view the selected SDI video content.

The selected audio inputs are displayed on high-resolution multi-coloured LED bargraphs. Selected audio channels are also provided as 8 AES-3id pairs and 8 analogue outputs on the rear panel.

An SDI reclocked loop-through connector is provided enabling connection to downstream equipment.

A separate Dolby decoder option is available. When installed the monitoring unit can decode Dolby® E, Dolby® Digital and Dolby® Digital Plus material from any of the AES inputs, or from embedded audio data within the SDI bitstreams.

The BM-AV2-16SHD is suited to operation within Master Control Rooms, Outside Broadcast Vehicles, or indeed anywhere where audio monitoring of SD, HD and 3G SDI sources is required.



BM-AV2-16SHD Specifications

Audio Inputs	
Digital AES3-id	8 x 75 ohm (BNC connector)
Sample Rate	48 kHz
Analogue	8 x differential impedance 25k ohm. 25 way 'D' type connector; 2 x XLR3F
Video	
Input	2 x 3G/HD/SD SMPTE 424M, 259M, 296M, 274M, 292M
Output	1 x SDI loophrough
Display	5" 800 pixels x 480 lines.
Meters	
Bargraphs	16 x 53 element tricolour with adjustable colour break points
Analogue Monitor Outputs	2 x XLR3M
Max output level	+15 dB
Noise + THD	-98 dB
Analogue Channel Outputs x 8	1 x 25 way 'D' type connector
Max output level	+10 dB
Noise + THD	-108 dB w.r.t. clipping
Digital Channel Outputs x 16	8 x 75 ohm BNC
Digital AES-3id	
Frequency response	
All analogue outputs	20 Hz to 20 kHz \pm 1 dB
Main drive amp	
Noise + THD	-80 dB w.r.t. maximum output
Speaker driver units	
Peak acoustic level (@2ft)	100 dB SPL
Shielding	Magnetic
Scales and Ballistics	
DIN PPM	Overall dynamic range: 55 dB (+5 to -50 dB) Attack time: 10 mSec Fallback: 1.5 Sec per 20 dB decay
BBC PPM	Overall dynamic range: (+12 to -12 dB from mark 7 to mark 1) Attack time: 10 mSec Fallback: 2.85 Sec (from mark 7 to mark 1)
VU	Overall dynamic range 23 dB (+3 dB to -20 dB) Attack time: 300 mSec Fallback: 300 mSec
AES/EBU	Overall dynamic range 60 dB (0 to -60 dB) Attack time: 1 mSec Fallback: 1.5 Sec per 20 dB decay
Housing	19" Rack Mount: 2U high. Outline Dimensions: 483 mm(W) x 256 mm(D) x 89 mm(H) Outline Dimensions: 19 inch(W) x 10 inch(D) x 3.5 inch(H)
Power	90 - 264 VAC 50/60 Hz Autoselect, Fuse 4A HAC
Environment	Temperature 0 °C to 30 °C. Humidity 70% max (non-condensing)
Weight	6 kg (14lbs)

Product specifications subject to change without prior notice. See website for warranty details.