

# BM-AV2-4SHD

In-Rack Monitoring

Preliminary Information



## FEATURES

High-quality 4 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 input facilities, including 2 x SDI, 2 x AES-3id pairs, 4 x analogue inputs. 2 x AES-3id pair outputs plus analogue LR monitor outputs.

4 channel monitoring with ability to monitor any channel on either speaker, including combinations and groups.

Loop-through 3G/HD/SD SDI output to feed external video monitor

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

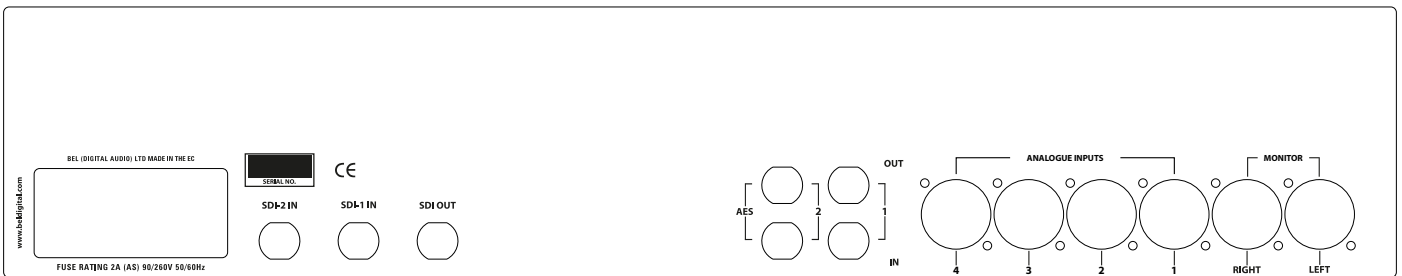
The BM-AV2-4SHD is a 2U high-quality in-rack monitor, capable of monitoring video and multi-channel audio sources. This class leading product builds on Bel's reputation for providing very high quality and reliable broadcast solutions.

The BM-AV2-4SHD provides a pair of auto-detecting 3G/HD/SD SDI inputs and accepts 4 balanced analogue audio inputs and 2 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 2 AES-3id pair outputs on the rear panel.

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

The BM-AV2-4SHD 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-AV2-4SHD Specifications

<b>Audio Inputs</b>	
Digital AES3-id	2 x 75 ohm (BNC connector)
Sample Rate	48 kHz
Analogue	4 x XLR3F
<b>Video</b>	
Input	2 x 3G/HD/SD SMPTE 424M, 259M, 296M, 274M, 292M
Output	1 x SDI loophrough
Display	5" 800 pixels x 480 lines.
<b>Meters</b>	
Bargraphs	4 x 53 element tricolour with adjustable colour break points
<b>Analogue Monitor Outputs</b>	2 x XLR3M
Max output level	+15 dB
Noise + THD	-98 dB
<b>Digital Channel Outputs</b>	2 x 75 ohm BNC
<b>Frequency response</b>	
All analogue outputs	20 Hz to 20 kHz $\pm$ 1 dB
<b>Main drive amp</b>	
Noise + THD	-80 dB w.r.t. maximum output
<b>Speaker driver units</b>	
Peak acoustic level (@2ft)	100 dB SPL
Shielding	Magnetic
<b>Scales and Ballistics</b>	
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
<b>Housing</b>	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)
<b>Power</b>	90 - 264 VAC 50/60 Hz Autoselect, Fuse 4A HAC
<b>Environment</b>	Temperature 0 °C to 30 °C. Humidity 70% max (non-condensing)
<b>Weight</b>	6 kg (14lbs)

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