

# BM-A2-4SHD

In-Rack Monitoring



## FEATURES

- High-quality High Definition in-rack monitor with discrete 3G, HD and SD SDI monitoring.
- Provision for monitoring 3G/HD/SD SDI embedded groups, 2 x AES pairs and 2 analogue stereo pairs.
- 4 channel monitoring with ability to monitor any channel on either speaker.
- High quality, high SPL audio reproduction with system limiting.
- Individually user-calibrated audio levels for inputs, outputs & metering.
- High resolution, tricolour level meters with adjustable colour transition points & peak-hold facility. Six standard scales & ballistics, user assignable.
- Alarms for audio loss, over-level and anti-phase.
- Remote control of all alarm functions.
- Designed to exceed current EMC directives.
- Fully RoHS compliant and 3 year warranty.

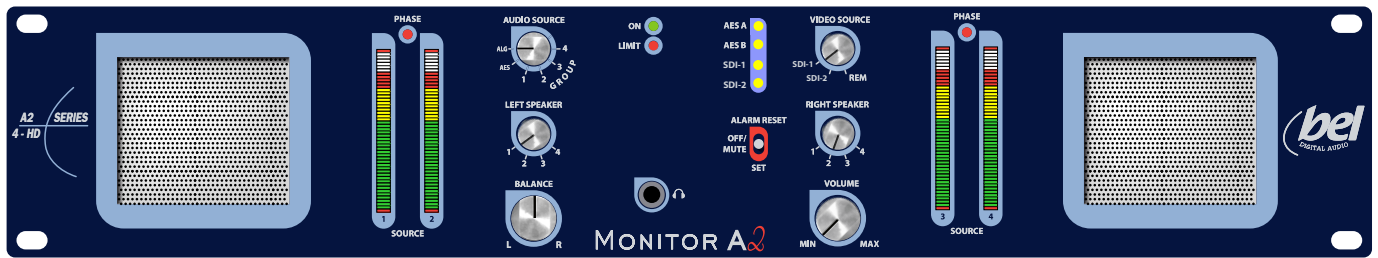
## INTRODUCTION

The BM-A2-4SHD is a 2U high-quality audio monitor, capable of monitoring the audio content of 3G, HD and SD SDI bitstreams, AES/EBU or analogue audio sources. This product builds on Bel's reputation for providing very high quality and reliable broadcast solutions, whilst also maintaining our user friendly and stylish interfaces that are well respected throughout the industry.

The BM-A2-4SHD accepts 2 x SDI sources and automatically detects between 3G, HD and SD SDI bitstreams, extracting the audio content appropriately. This automatic operation results in a very simple setup procedure and a very uncluttered and self explanatory front panel.

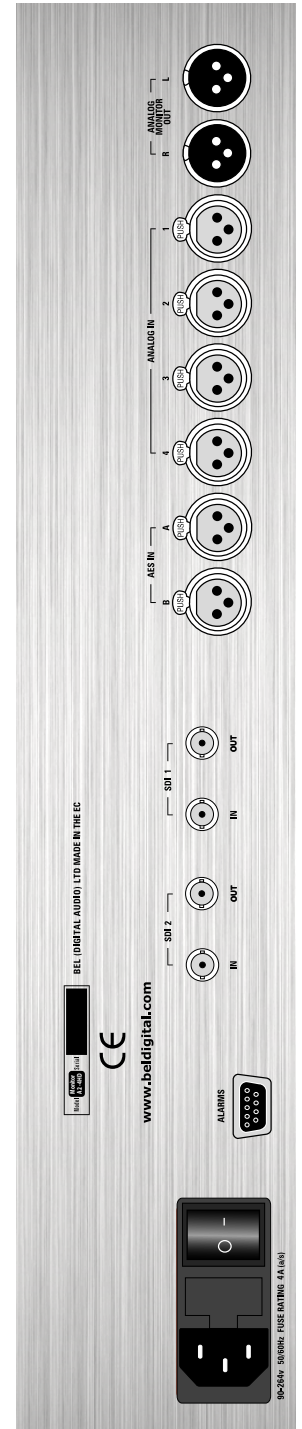
A TTL or serial alarm output is generated in the event of audio loss, over-level or anti-phase, with audible and visual indication. It is possible to mute the audible alarm.

The BM-A2-4SHD is suited to operation within Master Control Rooms, Outside Broadcast Vehicles, or indeed anywhere where audio monitoring of 3G, HD and SD SDI sources is required



## BM-A2-4SHD Technical Specifications

<b>Audio Inputs</b>	
Digital AES	1 x 110 Ohm differential (XLR connector) or 1 x 75 Ohm (BNC connector)
Analogue	25kOhm differential
<b>Video</b>	
Input	SD : SMPTE 259M, HD : 296M, 274M, 292M, 3G : 424M
<b>Meters</b>	
Bar Graphs	53 element tricolour with adjustable colour break points
<b>Analogue Monitor Outputs</b>	
Max output level	+15dB
Noise + THD	-95dB (Analogue Input) ; -98dB (Digital Input)
<b>Frequency response</b>	
All analogue outputs	20Hz to 20kHz $\pm$ 1dB
<b>Main drive amp</b>	
Noise + THD	-80dB w.r.t. maximum output
<b>Speaker driver units</b>	
Peak acoustic level (@2ft)	100dB SPL
Shielding	Magnetic
<b>Scales and Ballistics</b>	
NORDIC	Overall dynamic range: 54dB (+12 to -42dB) Attack time: 5mSec Fallback: 1.7Sec per 20dB decay
DIN PPM	Overall dynamic range: 55dB (+5 to -50dB) Attack time: 10mSec Fallback: 1.5Sec per 20dB decay
BBC PPM	Overall dynamic range: (+12 to -12dB from mark 7 to mark 1) Attack time: 10mSec Fallback: 2.85Sec (from mark 7 to mark 1)
VU	Overall dynamic range 23dB (+3dB to -20dB) Attack time: 300mSec Fallback: 300mSec
VU Ext.	Overall dynamic range 80dB (+20 to -60dB) Attack time: 300mSec Fallback: 300mSec
AES/EBU	Overall dynamic range 60dB (0 to -60dB) Attack time: 1mSec Fallback: 1.5Sec per 20dB decay
<b>Housing</b>	19" Rack Mount: 2U high. Outline Dimensions: 483mm(W) x 256mm(D) x 89mm(H) Outline Dimensions: 19inch(W) x 10inch(D) x 3.5inch(H)
<b>Power</b>	90 - 264 VAC 50/60Hz Autoselect, Fuse 4A HAC
<b>Environment</b>	Temperature 0 °C to 30 °C. Humidity 70% max (non-condensing)
<b>Weight</b>	6kg (14lbs)



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