

BM-A2-4SHD

In-Rack Monitoring



FEATURES

High-quality High Definition in-rack monitor with discrete HD and SD SDI monitoring.

Provision for monitoring 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

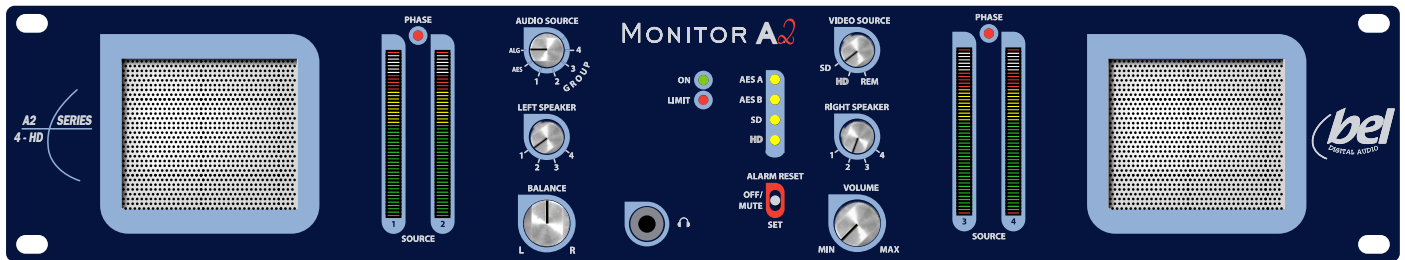
The BM-A2-4SHD is a 2U high-quality audio monitor, capable of monitoring the audio content of HD/SD SDI bitstreams, AES/EBU or analogue audio sources. This product builds on Bel's reputation for providing very high quality and reliable broadcast solutions, whilst also maintaining our user friendly and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

The BM-A2-4SHD provides two separate SDI BNC connections, one for SD SDI and the other for HD SDI sources. Selection of the source to be monitored, including selection from any of the SDI groups, is made from the front panel using rotary controls.

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.

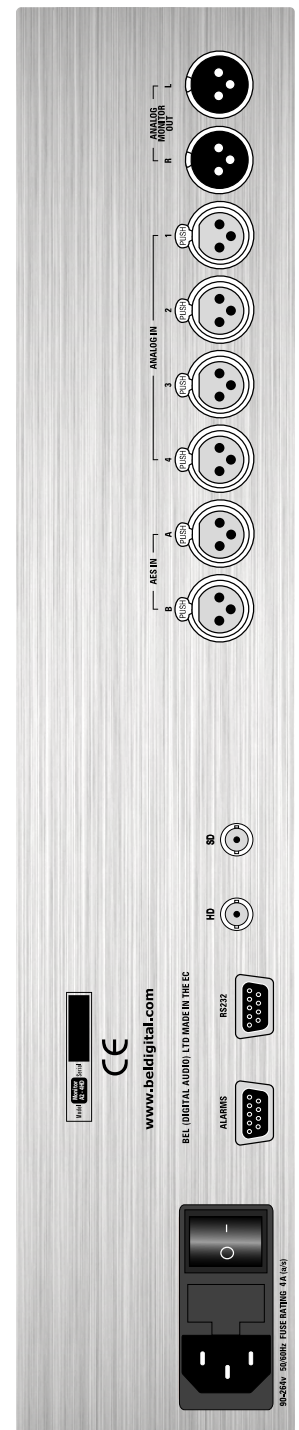
The BM-A2-4SHD can be controlled remotely via Bel's MonitorMX remote control software package. This provides facilities such as remote monitoring of multiple units, control over alarm states, naming of individual units and control over bargraph transition points.

The BM-A2-4SHD has already been the HD monitor of choice for various international broadcast events, including the Torino Winter Olympic Games and the 2006 FIFA World Cup™.



BM-A2-4SHD Technical Specifications

Audio Inputs	
Digital AES	1 x 110 Ohm differential (XLR connector) or 1 x 75 Ohm (BNC connector)
Analogue	25kOhm differential
Video	
Input	SD : SMPTE 259M, HD : 296M, 274M, 292M
Meters	
Bar Graphs	53 element tricolour with adjustable colour break points
Analogue Monitor Outputs	
Max output level	+15dB
Noise + THD	-95dB (Analogue Input) ; -98dB (Digital Input)
Frequency response	
All analogue outputs	20Hz to 20kHz \pm 1dB
Main drive amp	
Noise + THD	-80dB w.r.t. maximum output
Speaker driver units	
Peak acoustic level (@2ft)	100dB SPL
Shielding	Magnetic
Scales and Ballistics	
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
Housing	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)
Power	90 - 264 VAC 50/60Hz Autoselect, Fuse 4A HAC
Environment	Temperature 0 °C to 30 °C. Humidity 70% max (non-condensing)
Weight	6kg (14lbs)
Computer Interface	9 pin RS-232 female PC-AT serial interface (null-modem)



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