

# BM-A1-2SHD

In-Rack Monitoring



## FEATURES

High-quality High Definition in-rack monitor with discrete 3G, HD and SD SDI monitoring.

Auto-selection of 3G/HD/SD input source via two SDI inputs with active loop-through.

Ease of use via intuitive front panel controls. Rotary controls are provided instead of push buttons.

2 channel monitoring through powerful high-quality internal speakers.

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.

Designed to exceed current EMC directives.

Fully RoHS compliant.

3 Year Warranty.

## INTRODUCTION

The BM-A1-2SHD is a 1U high-quality 2-channel audio monitor, capable of monitoring the audio content of 3G, HD and SD SDI bitstreams.

This class-leading 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-A1-2SHD 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.

All available functions are accessible directly from the front panel via rotary controls, making operation extremely simple. A single 8-position rotary control enables the operator to monitor any channel pair from the selected SDI source.

Two buffered loop-through outputs are provided for the SDI inputs.

The BM-A1-2SHD 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, especially when within a space conscious environment.



## BM-A1-2SHD Technical Specifications

<b>SDI I/O</b>	
Input	2 x BNC; 3G/HD/SD Auto-detect: SMPTE 424M, 259M, 296M, 274M, 292M
Loop-through Output	2 x BNC; Active loop
<b>Video Modes</b>	
SD	625 PAL, 525 NTSC
HD	1035i(30 & 30/1..1), 1080i/1080sF (30 & 30/1.001), 1080i/1080sF(25), 1080sF(24 & 24/1.001), 1080p(25), 1080p(24 & 24/1.001), 720p (50) 720p(60 & 60/1.001), 720p (30 & 30/1.001), 720p (25), 720p(24 & 24/1.001)
3G	1080p (50), 1080p (60 & 60/1.001)
<b>Meters</b>	
Bar Graphs	2 x 26 element tricolour with adjustable colour break points
<b>Analogue Monitor Outputs</b>	
Max output level	+15dB
Noise + THD	-105dB
<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: 1U high. Outline Dimensions: 483mm(W) x 283mm(D) x 44.3mm(H) Outline Dimensions: 19inch(W) x 11.1inch(D) x 1.75inch(H)
<b>Power</b>	90 - 264 VAC 50/60Hz Autoselect, Fuse 2A HAC



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