

# BM-A1-160B

In-Rack Monitoring



## FEATURES

High-quality 16 channel audio monitor with 3G/HD/SD SDI de-embedding.

Comprehensive I/O facilities, including 2 x SDI, 4 x AES-3id pairs, 2 x analogue.

Intuitive operation, with all controls directly accessible.

Status display, providing input status information and volume level.

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

High quality audio performance based on our well respected three-speaker system.

High resolution, tricolour level meters with adjustable colour transition points & peak-hold facility. Four standard scales & ballistics, user assignable.

De-embedder functionality of SDI sources provided with four AES3-id pair outputs.

Compact chassis, ideal for OB and Flyaway systems.

Fully RoHS compliant and 3 year warranty.

## INTRODUCTION

The BM-A1-160B is a 1U high-quality audio monitor, capable of monitoring 3G/HD/SD video and multi-channel audio sources in a compact 200 mm depth chassis (ideal for OB and flyaway systems). This class leading product builds on Bel's reputation for providing very high quality and reliable broadcast solutions.

The BM-A1-160B provides a pair of auto-detecting 3G/HD/SD SDI inputs and accepts two analogue audio inputs and four AES-3id input pairs.

Integral to the BM-A1-160B is a display to enable easy device configuration and to provide signal status information.

Audio inputs are displayed on eight high-resolution tri-coloured LED bargraphs (selectable as channels 1-8 and 9-16), and routed to speakers using dedicated push buttons located below each bargraph. Audio channels 1-8 are also provided as AES-3id outputs on the rear panel.

An SDI reclocked loop-through connector is provided enabling connection to an external video monitor.

The BM-A1-160B is suited to operation in Outside Broadcast Vehicles, Flyaway Systems, in Master Control Rooms, or indeed anywhere where audio monitoring of SD, HD and 3G SDI sources is required, especially when within a space conscious environment.



## BM-A1-160B Specifications

<b>Audio Inputs</b>	
Digital AES3-id	4 x 75 Ohm (BNC connector)
Sample Rate	48 kHz - 96 kHz
Analogue	2 x differential impededance 25 kohm (XLR)
<b>Video</b>	
Input	2 x 3G/HD/SD SMPTE 424M, 259M, 296M, 274M, 292M
Output	1 x reclocked SDI loopthrough
<b>Meters</b>	
Bargraphs	26 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 x 8</b>	4 x 75 ohm BNC
Digital AES-3id	
<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 ms 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 ms Fallback: 2.85 sec (from mark 7 to mark 1)
VU	Overall dynamic range 23 dB (+3 dB to -20 dB) Attack time: 300 ms Fallback: 300 ms
AES/EBU	Overall dynamic range 60 dB (0 to -60 dB) Attack time: 1 ms Fallback: 1.5 sec per 20 dB decay
<b>Housing</b>	19" Rack Mount: 1U high. Outline Dimensions: 483 mm(W) x 200 mm(D) x 44 mm(H) Outline Dimensions: 19inch(W) x 7.87inch(D) x 1.7inch(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>	4 kg (8.8lbs)

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