

AF1B-R TIME-ALIGN[®]

APPLICATIONS

Portable Sound Reinforcement Drum Monitor
Portable Audio-Visual Systems Electronic Keyboards

DESCRIPTION

The AF1B-R is a portable wide range loudspeaker system offering both high fidelity and high efficiency. The Time-Aligned™ studio quality sound provides detail and clarity not found in other designs. Rugged black Ro Tex™ finish, recessed handles, protective corners, casters and a grill cover make the AF1B-R an ideal choice for almost all portable sound reinforcement and musical instrument applications.



SPECIFICATIONS

System Type:

3-way vented 5.5 ft³

Enclosure:

18 mm 13-ply birch plywood

Finish:

Black Ro Tex™ True water born environmental finish

Grille:

16 Gauge black power coated perforated steel

Low Frequency Components:

E-18A Transducer, 3" Voice coil, 95 oz. Magnet

Mid Frequency Components:

SE-1280 Transducer, 2.5" Voice Coil, 80 oz. Magnet

High Frequency Components:

E-700 1" Exit compression driver, 1.8" Titanium diaphragm, 15 oz. Magnet, Radial Waveguide

Input Connector:

Neutrik® speakON 1/4" combo jack

Hardware:

8 - Recessed handles
2 - 3½" Rigid casters

Crossover Type:

Passive Time-Align® equalizer filter @ 1.9 kHz

Time Offset Between Driver:

< ± 25 Microseconds

Sensitivity:

101 dB SPL (2.83 V @ 1m)

Frequency Response:

45 Hz to 20 kHz ±3 dB

Low Frequency Limit:

40 Hz

Maximum Calculated Continuous Acoustic Output:

127 dB SPL @ 1m

Power Handling:

500 W continuous (IEC)
1000 W program

Recommended Amplifier Power:

500 to 1000 W at rated impedance

Rated Impedance:

4 Ohms

Coverage Pattern:

80 degrees Horizontal (-6 dB)
60 degrees Vertical (-6 dB)
Rotatable horn

Recommended High Pass Filter:

40 Hz Butterworth 12 dB/octave

Polarity:

A positive asymmetrical signal applied to the + terminal will result in a positive asymmetrical acoustical pressure

Dimensions:

43.5" h x 22" w x 18" d
111 cm x 56 cm x 46 cm

Weight:

143 lbs
65 kg

Custom Finishes:

Optional custom finishes include white, unfinished ready to paint and outdoor weather treatment.

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AF1B-R TIME-ALIGN®

ABOUT TIME-ALIGN® TECHNOLOGY

Time-Align® assures that the fundamental and overtones of a complex, transient, acoustical signal are presented to the listener in the same relationship as the electrical signal at the input terminals of the loudspeaker. The conventional loudspeaker spreads out the sound in time. When a rapid series of transients occur the results are blurring and lost detail. With Time-Align®, a transient is presented as a tight package of energy, with the same time relationships as the natural sound. This means that a rapid series of transients will be heard clearly.



True Time-Alignment™ requires much more than just physically lining up the loudspeaker components. It requires consideration of the driver placement, driver delay and adjustment of the crossover delay parameters. This achieves the precise simultaneous acoustical arrival time of each driver throughout the crossover region.

The first Time-Aligned™ Loudspeaker was invented by EM Long Associates in 1976 utilizing the Time-Align® generator invented and built by Ronald Wickersham. In 1980 Bag End® incorporated Time-Align® technology into our full range loudspeaker systems. Along with state-of-the-art laboratory instruments, the proprietary Time-Align® generator is still in use today to verify the time domain performance of our loudspeaker systems. When comparing a genuine Bag End® Time-Aligned™ loudspeaker system to any other, our technology and design is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of our Time-Aligned™ systems are well noted worldwide.

ABOUT OUR RO TEX™ FINISH

The durable Ro Tex™ finish is double layered on Bag End™ "R" series or Road cabinets. And single layered on installation or "I" cabinets. Ro Tex™ is a water born environmentally safe finish. It's uniquely strong and long

lasting. As it solidifies it attaches and bonds to the wooden cabinet to make a super hard and durable permanent finish. Its light texture offers an attractive and rugged finished look

ABOUT BAG END® LOUSPEAKERS

Bag End loudspeakers began in 1976 in a small shop by people dedicated to the pursuit of making high quality loudspeaker systems. Over the decades Bag End® has employed the very best construction techniques and innovative acoustical designs into their products. The ground breaking introductions of the Time-Align® and ELF™ Technologies into sound reinforcement and studio monitor loudspeakers in the 1980's was followed by Minima One™ self-powered systems and the highly unique E-Trap™, electronic bass trap. Over the decades, Bag End® has been a leader in providing uniquely good sounding products and extraordinary service to our customers world wide.

DIMENSIONS

