

BAG END SELF-POWERED

INSTALLATION SERIES

P-D18E-AD

S P E C I F I C A T I O N S



SYSTEM COMPONENTS

Enclosure:

18 mm 13-ply birch plywood

Low Frequency Transducers:

2 - 18" INFRA cone
3" Voice coil
120 oz. Magnet

Interior Amplification:

1 - Minima One

Grille:

14 Gauge black vinyl coated
perforated steel

Standard Hardware:

8 - Machined aluminum speaker
mounting clamps

Optional Hardware:

Rigging points

ACOUSTIC AND ELECTRICAL

System Type:

2 - Infrasub sealed chambers
(3 ft³ each)

Input:

10K Ω Balanced XLR input
with loop through

Input CAL Sensitivity: +4dBu

System Power:

1000 W continuous

Frequency Response:

60 Hz to 250 Hz ± 3 dB
w/External Infra Integrator
8 Hz to 95 Hz ± 3 dB

Hi-Pass Filter Frequency

Switchable:

-6 dB @ 8 Hz, @ 50 Hz, @ 95 Hz

Crossover Network:

Requires external INFRA
Integrator for 8 Hz response

Maximum Acoustic Output:

Half Space @ 1 Meter
10 Hz - 97 dB SPL
20 Hz - 109 dB SPL
40 Hz - 121 dB SPL
80 Hz - 130 dB SPL

LED Indicators:

Green, On
Yellow, System Limit
Red, System Fault or Sleep Mode

AC Power Requirements:

88 Volt Minimum
270 Volts Maximum

PHYSICAL

Finish:

Black Textured Finish

Dimensions:

15"h x 38"w x 30"d
39 cm x 97 cm x 77 cm

Weight:

131 lbs.
59.4 kg

Shipping Dimensions:

17" x 40" x 32"
44 cm x 102 cm x 82 cm

Shipping Weight:

143 lbs.
65 kg

APPLICATIONS:

House of Worship

5.1 Digital Format Subwoofer

Recording Studio

PA System Installations

Home Theater

Discotheque

MINIMA ONE SELF POWERED The P-D18E-AD is a very high output self-powered INFRA subwoofer system designed to provide high fidelity extended low frequency audio reproduction from a relatively small enclosure. The P-D18E-AD provides perfectly flat response down to 8 Hertz when used in conjunction with the 8 Hertz Integrator. Designed for permanent installation, the P-D18E-AD offers a flat black textured finish and a black coated steel grille.

OPTIONAL CUSTOM FINISHES Available in white and ready-to-stain natural birch. Also available in custom outdoor weather resistant finish for greater versatility in location and aesthetics.

ABOUT INFRASUB TECHNOLOGY Almost all specifications for subwoofer systems are fixated on the frequency response domain. However, the impression of power and quality is equally related to the time domain performance of a system. Because of the long wavelengths of low frequencies, this is particularly true with subwoofers.

Likewise, the maximum SPL is not a very reliable way to judge the impact of a subwoofer. A poor time domain performer will not have the same impact or natural sound as a time correct INFRA system.

The reason that INFRA technology sounds dramatically better than the others is because of their superior time domain performance. The INFRA subwoofer maintains the bass energy in a tight packet, aligned with the upper range signal, providing a greater body impact and a seamless musical connection with the main loudspeakers.

Conventional sub designs perform so poorly in the time domain because designers have used methods that sacrifice the phase response for more control over the frequency response (e.g., steep low pass filter slopes, vented speaker enclosures, and narrow bandwidth systems). With the INFRA technique, we do not degrade the phase response while extending the frequency response.

While the INFRA dual integrator does function as the system crossover, it does so without using a low pass filter. Adding a low pass filter, analog or digital, will have a degrading effect on the time domain performance of the INFRA subwoofer. A low pass filter adds signal delay to the sound which varies with frequency. Also, narrowing the pass band increases the influence of the rolloff on both ends of the subwoofer spectrum. The result is the smearing of the arrival times of the low frequency sound components, changing the timbre and downgrading the impact of transient sounds.

The Bag End INFRA subwoofers are designed as no-compromise, high fidelity reproduction systems. We believe they are the finest subs available, regardless of price.

BAG END Loudspeakers
22N272 Pepper Road
Lake Barrington, Illinois
60010 USA
Voice 847 382 4550
Fax 847 382 4551
www.bagend.com

