DESCRIPTION

The IPD12E-R is a self-powered and internally Infra™ processed double 12” portable bass system. The internal Minima One™ amplifier and Infra™ processing provides for convenient implementation and wiring. The internal Infra™ integrator, amplifier and loudspeaker process the full range signal into a flat response low frequency acoustic output. The Dynamic Filter™ protection threshold is internally preset to eliminate distortion or accidental overload. This insures the maximum output and robust system protection with virtually no audible effect.

The audio input incorporates an InGenius® balanced line receiver, providing very high common mode rejection, to eliminate noise often present in systems with less optimized grounding and wiring schemes. Low voltage contacts are provided to remotely turn the amplifier on and off.

SPECIFICATIONS

System Type: 2 - InfraSub™ sealed chambers 1.4 ft³ each
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: 2 - EL-12 12” Extended Transducers, Infra™ cone, 2.5” Voice coil, 80 oz. Magnet
Input Connector: XLR 1/4” combo with XLR loop through
Internal Amplification: Minima One™
Input Impedance: 48K Ohms
Input CAL Sensitivity: +4 dBu
Maximum Continuous Amplifier Power: 1350 W into 4 Ohms
High Pass Filter: Switchable: -6 dB @ 8 Hz, @ 50 Hz, @ 95 Hz
LED Indicators: Green - On
Yellow - Dynamic filter threshold
Red - System fault or sleep mode
Mains Voltage Requirements: Auto sensing
Universal voltage range
88 Volts minimum to 270 Volts maximum
Mains Current Requirements: Line Current Requirements:
1.7 A with 120 V supply
(amplifier at full output with audio program material)
Hardware: 2 - Recessed handles
35mm Pole mount adapter
Crossover Type: Internal Infra™ Integrator Inside
Frequency Response: 8 Hz to 95 Hz ±3 dB
Low Frequency Limit: 8 Hz
Maximum Calculated Continuous Acoustic Output: Half Space @ 1 Meter
10 Hz - 88 dBSPL
20 Hz - 100 dBSPL
40 Hz - 112 dBSPL
80 Hz - 123 dBSPL
Polarity: A positive asymmetrical signal applied to pin 2 will result in a positive asymmetrical acoustical pressure
Dimensions: 28”h x 18”w x 15”d
72 cm x 46 cm x 39 cm
Weight: 75 lbs
34 kg
Custom Finishes: Optional custom finishes include white or unfinished ready to paint.

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ABOUT INFRASUB™ TECHNOLOGY

Almost all designs and specifications for subwoofer systems are fixated on the frequency response domain. However, the impression of power and quality of a loudspeaker is equally related to the time domain. The long wavelengths associated with low frequencies, make this 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 musically connected sound as a Time-Aligned™ Infra™ system. The reason that an Infra™ subwoofer sounds dramatically better is because of its superior time domain performance, as well as its extended low frequency response. 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 subwoofer 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 conventional low pass filter. The Infra™ integrator applies an inverse electrical response to the acoustical response of the Infra™ loudspeaker in its sealed enclosure. This provides both the upper frequency roll off and the extended frequency response while maintaining the hi sound quality often associated with a sealed box design. When comparing a genuine Bag End® Infra™ loudspeaker system to any other, our technology and design is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of an Infra™ system is well noted throughout the world.

ABOUT MINIMA ONE™ AND INFRA™ SELF PROCESSING

Infra™ self processed systems incorporates our analog Infra™ dual integrator into the Minima One™ input circuit. Infra™ Self Powered Systems accept a full range line level audio signal, and utilizes internal Infra™ processing to provide the extended low frequency acoustical response, as well as a uniform roll off, of the upper range of the subwoofer. The Dynamic Filter™ protection is included and preset to the amplifiers sensitivity, requiring no external setup. The Minima One™ amplifier is both a high fidelity and a high efficiency amplifier. With efficiency well over 80%, it provides more power to the loudspeakers, and creates less heat in the amplifier. In real world applications there is practically no heat emitted from the amplifier and thus it requires no cooling fan. The power factor corrected AC power input, automatically and continuously adapts to any voltage between 88 and 270 volts. The Minima One™ is convenient and stable to operate on any power grid in the world.

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.

DIMENSIONS

[Diagram showing dimensions: 18.0” (45.7cm) width, 15.0” (38.1cm) height, and 5.0” (12.7cm) depth with a symbol for Center of Gravity]