

DBS 18-2 iMODE



FEATURES

- High-efficiency self-powered subwoofer (3000 W EIAJ, PWM power amp module)
- Two 18" long-excursion low frequency transducers featuring innovative technologies to provide premium electro-acoustic performance to reliably deliver very high SPLs over extended periods
- Very high sound pressure level (141 dB SPL peak at 1 metre)
- The 'Decoupled Baffle Subwoofer' assembly contributes to the structural integrity of the entire cabinet as well as reducing resonance and air turbulence noise from the reflex ports
- Equipped with Outline's iMode technology, providing complete monitoring and control via any Ethernet connection
- Specifically designed to be ground-stacked, the cabinet is equipped with sturdy feet to protect it and provide a solid base
- Simple rigging system available to allow the cabinet to be suspended either vertically or horizontally
- Optional trolley-board - using a 'stack & strap' method of location - aids handling and transportation

APPLICATIONS

- Designed for use in applications requiring accurate and powerful reproduction of low frequencies at very high levels, its ability to reproduce program material with such integrity makes the DBS 18-2 iMODE applicable for either fixed or mobile use, which require energetic low frequency response without stress or equalisation.

DESCRIPTION

The DBS 18-2 iMODE is a dual 18" subwoofer enclosure using phase inversion type loading, which, coupled with the use of several innovative loudspeaker technologies, allows it to deliver consistent performance at the highest levels over many years.

The high-efficiency amplifier is able to deliver a total of 3000 W EIAJ power to the transducers, thus enabling a very good power matching. The system embodies the iMode technology (see details below), thus allowing a comprehensive and reliable control and monitoring. The enclosure is tuned to a low frequency by way of a long port with a large surface area. This allows the DBS 18-2 iMODE to obtain a wide passband and a considerable extension towards the bottom end of the frequency response. Its acoustic performance is the result of experience, in-depth analysis and careful design. The inner configuration improves the stiffness-to-weight ratio of the overall structure while the baffle orientation and the woofer placement are designed to minimise internal resonance, dampen box-vibration modes and eliminate completely the usual 'port turbulence' associated with this loading method. The name of this Outline design is 'Decoupled Baffle Subwoofer'. The DBS 18-2 iMODE is capable of outstanding electrical to acoustic power conversion but still within a compact package. The performance is very high thanks to the careful choice of the reflex alignment and the construction of the cabinet. The DBS 18-2 iMODE has a useable frequency range at -10 dB of from 28 Hz to 160 Hz, while the response is just +/-3 dB from 34 Hz to 107 Hz. The transducers are able to handle a total continuous AES power of 2400 W, giving 137 dB SPL in half-space, while peak values can reach 143 dB SPL. The DBS 18-2 iMODE's high quality build finish is constructed from 18 mm (phenolic-glued) Baltic-birch plywood. The outer finish applied is a scratch-resistant, waterproof black paint and the front of the cabinet is protected by an anti-resonant steel grille.

The cabinet has 24 flying points, that makes vertical or horizontal hanging possible by using the appropriate accessories. The enclosure can accommodate an optional trolley-board, for handling and transporting on even or uneven surfaces. Recessed integrated handles in the side panels of the cabinet are used for a positive grip during handling.

UNIQUE CONTROL POSSIBILITIES

The DBS 18-2 iMODE is equipped with Outline's proprietary iMode Technology, a truly 'intelligent' digital loudspeaker control platform which combines advanced digital signal processing and TCP/IP protocol to provide comprehensive control capabilities and a huge choice of interface devices. Users have real-time control over a series of parameter (levels, delay, eq's, shelving filters). iMode also allows the user to monitor performance parameters throughout the system (including VU-meters, clip and limiter status, amplifier overheating and protection) by using an iPad (with dedicated Outline software) or via any standard web browser (with no special software required), just as one would navigate a website. With standard IP-based communication, the iMode platform is truly future-proof, offering control via netbook, smartphone, and many devices yet to appear. iMode operates on a Linux operating system with an Outline-customised kernel.

Further information (also see Outline's iMode technology) available at www.outline.it

TECHNICAL SPECIFICATIONS:



FREQUENCY RESPONSE (PROCESSED)

(-10 dB) 28 Hz ÷ 160 Hz
 (±3 dB) 34 Hz ÷ 107 Hz

SUGGESTED X-OVER max 120 Hz

AVERAGE DISPERSION Quasi-omnidirectional

POWER AMPLIFIER

Input Sensitivity 5.02 dBu (1.38 VRMS)
 Type Class D (Digital)
 Input impedance 10 kΩ balanced to ground
 Cooling Temperature controlled variable speed fan
Rated power (1 kHz, 1% THD) 2 x 1500 W EIAJ on 8 Ω
 Gain 32 dB

MAX SPL @ 1 m (calculated)

(Single Unit, half-space) Cont. Peak (+6 dB)
 Low 137 dB SPL 143 dB SPL

LOUDSPEAKERS AND LOADING

Low 2 x 18" hybrid band-pass loaded woofers

Single unit 92 kg (202.8 lb) **Shipping (1 unit)** 101 kg (223 lb)

WEIGHT

DIMENSION

Height 60.5 cm (23.8") 75 cm (29.5")
 Width 112.4 cm (44.3") 117 cm (46.1")
 Depth 65 cm (25.6") 68 cm (26.8")

MULTIPURPOSE SERIES