

Borea Sub 13.1

12" Acoustic suspension subwoofer



Introduction

Borea Sub 13.1 is a long excursion acoustic suspension system in a ovoidal axisymmetric closed structure, characterized by extreme sensitivity, dynamics and emission power, made with an incredibly rigid and light structure of durable composite materials. Unlike all other alternatives currently available, this low-frequency speaker was made without technical and dimensional compromises, with structural technologies not utilized in the professional audio market. Thus it achieves maximum acoustic performance with an elegant design and a unique personality. All other bass reflex subwoofers on the professional audio market are built inside wooden box structures. This makes them flawed due to structural resonances and internal acoustic problems related to stationary waves. Furthermore, the wooden structure is very heavy and is characterized by problems related to protection and durability, with little resistance to atmospheric agents. Ovoidal 13.1 represents an exclusive technological innovation, built from high quality composite materials in a special ovoidal shell shape. The scratch-resistant glossy surfaces deliver resistance to atmospheric agents, combined with a great power with an extremely high efficiency and a very high sensitivity, which allows Ovoidal 13.1 to truly distinguish itself when compared to any product from the main competing brands. Borea Sub 13.1 guarantees the perfect loading of low frequencies in sensitivity, depth, control and SPL expressed by the usage of few watts. Borea Sub 13.1 uses a single high quality, high excursion transducer of 12" diameter. The structure is rigid and very light (considering the overall weight and the dB/Kg ratio). The aesthetic impact is extraordinary and is absolutely unique on the professional sound market.



Features

- Strong impact from the visual point of view
- Special ultralight anti-resonance shell structure
- powerful sound emission
- Extreme sensitivity
- Excellent sound quality at all levels of listening
- Perfect adaptability to any musical genre
- Heavy duty composite construction, resistant to scratches and bumps
- Completely weather resistant (on request)
- Engineered for easy maintenance and repair
- Technologically advanced design
- light weight for easy transport
- Simple installation and interface
- Customization of color and surface

Applications

Small intimate space
Small outdoor events
Small-scale live events in need of a high sound quality

Max Size of audience within the range of dispersion for 2x Borea Sub 13.1: Indoor 80
Outdoor 40
(recommendations vary depending on the genre and the desired pressure)



Borea Sub 13.1 is a long excursion acoustic suspension subwoofer in an ovoidal axisymmetric closed structure. Built from high-quality composite materials, highly resistant to damage from scratches and bumps. Absolutely resistant to rain and sun. All metal parts are built from stainless steel. Borea Sub 13.1 sensitivity is 92dB 1W/1m; the woofer is 12" (320mm), ferrite ring, 8 Ohm; 450W nominal power handling, 900W power on the continuous program is the recommended amplifier power to exploit, fully, the transducer without any clipping in the amplifier. The Full-Fat audio FFA 6000 is the recommended amplifier for this solution. The size of the audience for 2 Borea Sub 13.1 would be indoor 80pp, outdoor 40pp. This varies depending on musical preferences.

Warning:

this is a professional audio system with very high efficiency and sensitivity to acoustic emissions that could potentially cause hearing damage. Installation and use intended for experienced and qualified personnel. Safety DSP devices with a limiter function are recommended.

TYPE	Acoustic suspension subwoofer in ovoidal structure
FREQUENCY RESPONSE	38 Hz - 1,5 KHz
TOTAL SENSITIVITY	92 dB 1W/1m
NOMINAL IMPEDANCE	8 Ohm
POWER HANDLING	450 W nominal, 900 W power continuous program
MANAGE	2 Ch amplifier to a couple of Borea (stereo)+DSP to match to satellite. High-pass filter @30Hz, 24 dB/oct. But ; Low- pass filter @100-120Hz, 24 dB/oct. LR
RECOMMENDED AMPLIFIER	Full Fatt Audio FFA 600
DISPERSION	Omnidirectional
CONSTRUCTION MATERIALS	Fiber-reinforced composite, stainless steel
FINISH	all ral color and texture on order
PROTECTIVE GRILLES	stainless steel on request
CONNECTORS	1x Neutrik NL4 or custom preference
DIMENSIONS (with support)	(W) 480mm (H) 480mm (D) 450mm (W) 18,8inch (H) 18,8 inch (D) 17,7inch
WEIGHT	15 Kg (33 lb)



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