ES1.8 Technical Data Sheet

Product code: KVV 987 004

Introduction

The ES1.8 is a high-output, reflex horn loaded, single 18" subwoofer, designed as a part of the ES Series sound reinforcement system. It provides tight, up front, low frequency extension with authority, attack and definition. Designed to be used in pairs, or with up to two ES1.5, the ES1.8 can achieve high output levels consistently and safely. Alongside the ES1.0 and EPAK2500/R, ES1.8 offers a very firm foundation on which to build a powerful ES system.



Features

- Professional Baltic birch construction with highly resistant polymer coating
- 131dB sustained output 137dB peak per unit and 136dB/ 139dB peak when using 2 units
- Horn reflex loaded, 18" low frequency driver with 4" (100 mm) inside/outside, epoxy baked, high temperature voice coil assembly and carbon fibre reinforced cone assembly
- Four proprietary side handles for simplified handling and carrying
- Heavy duty front grille to work with the innovative ES series magnetic carts
- High-impact, low friction feet are asymmetrically located on two sides allowing vertical or horizontal system set up, lock-in and easy cabinet movement
- Six industrial grade internal corner braces with twelve M10 suspension points
- M20 top hat for pole insertion
- Weather proofing option and special paint finishes available on request

Application

Specifically designed to be used in pairs to accompany the ES1.0 as a true full range high output system for music playback and live performance

- Large Bars and Nightclubs
- Concert venues
- Portable PA
- Scalable into larger systems

System Acoustic Perfomance	
Max SPL Long-term	131dB (136dB - 2x ES1.8)
Max SPL Peak	137dB (139dB - 2x ES1.8)
-3dB Response	37Hz to 130Hz
-10dB Response	33Hz to 130Hz
Impedance	8Ω
Crossover Point	130Hz

Low Frequency Section	
Acoustic Design	Horn reflex loaded
Subwoofer Amplifier Requirement	800W / ES1.8 from EPAK2500/R
Woofer Size / Voice Coil Diameter / Design	18" / 4" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Ferrite

Speaker Input	
Speaker Input	AP4

Speaker Output	
Speaker Output	AP4

Cabinet	
Cabinet Material	Baltic birch
Handles	4
Pole Mount	M20
Color	"Orange peeled" Matt Black or any RAL

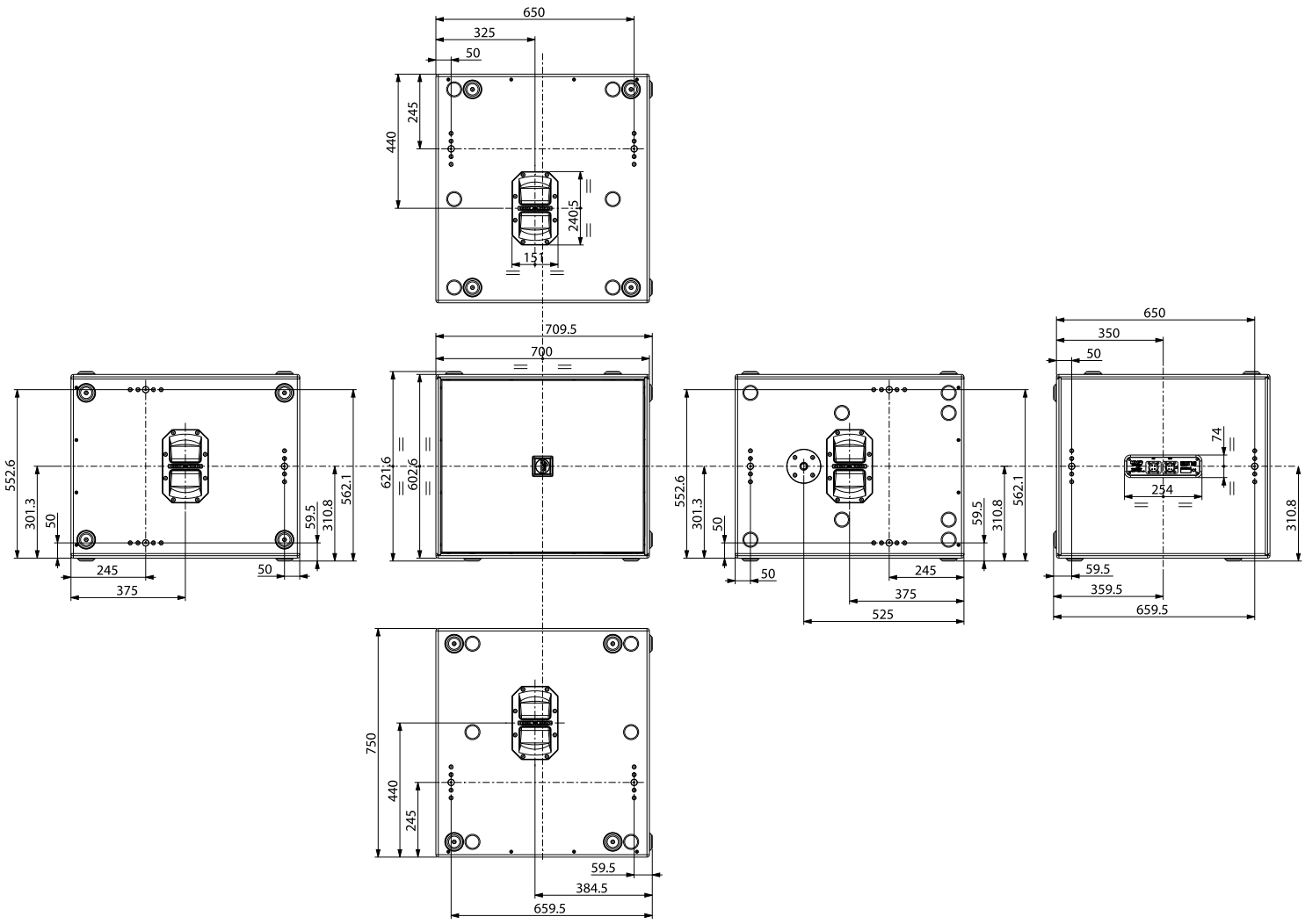
Physical Dimensions	
Height	600 mm (23.62")
Width	700 mm (27.55")
Depth	750 mm (29.52")
Weight	55,6 kg (122.6lbs)

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Architectural Specifications

The bass module loudspeaker system shall incorporate one 18-inch low frequency (LF) transducer with ferrite motor and 4-inch polymide, high-termperature voice coil. The LF driver shall be mounted inside a wood enclosure with large-format low-distortion reflex ports. The loudspeaker enclosure shall have a rectangular shape and shall incorporate, four side handles and integrated internal braces with twelve M10 suspension points. The speaker cabinet shall be finished with an ultra wear resistant black polymer coating and fitted with a weather resistant perforated steel grill. The system shall receive power from a separate Amplifier and Control Module consisting of separate power amplifiers for high, mid-range and mid-bass transducers as well as signal control including electronic band pass crossover filters, phase alignment, time corrections, equalization and speaker protection. The speaker system shall connect to the Amplifier and Control Module via proprietary cables terminated in Amphenol AP4 connectors. The bass module shall be the KV2 Audio ES1.8.

Dimensional Drawings



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