

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 134dB 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 Performance

| | |
|-------------------|--------------------------|
| Max SPL Long-term | 131dB (136dB - 2x ES1.8) |
| Max SPL Peak | 134dB (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

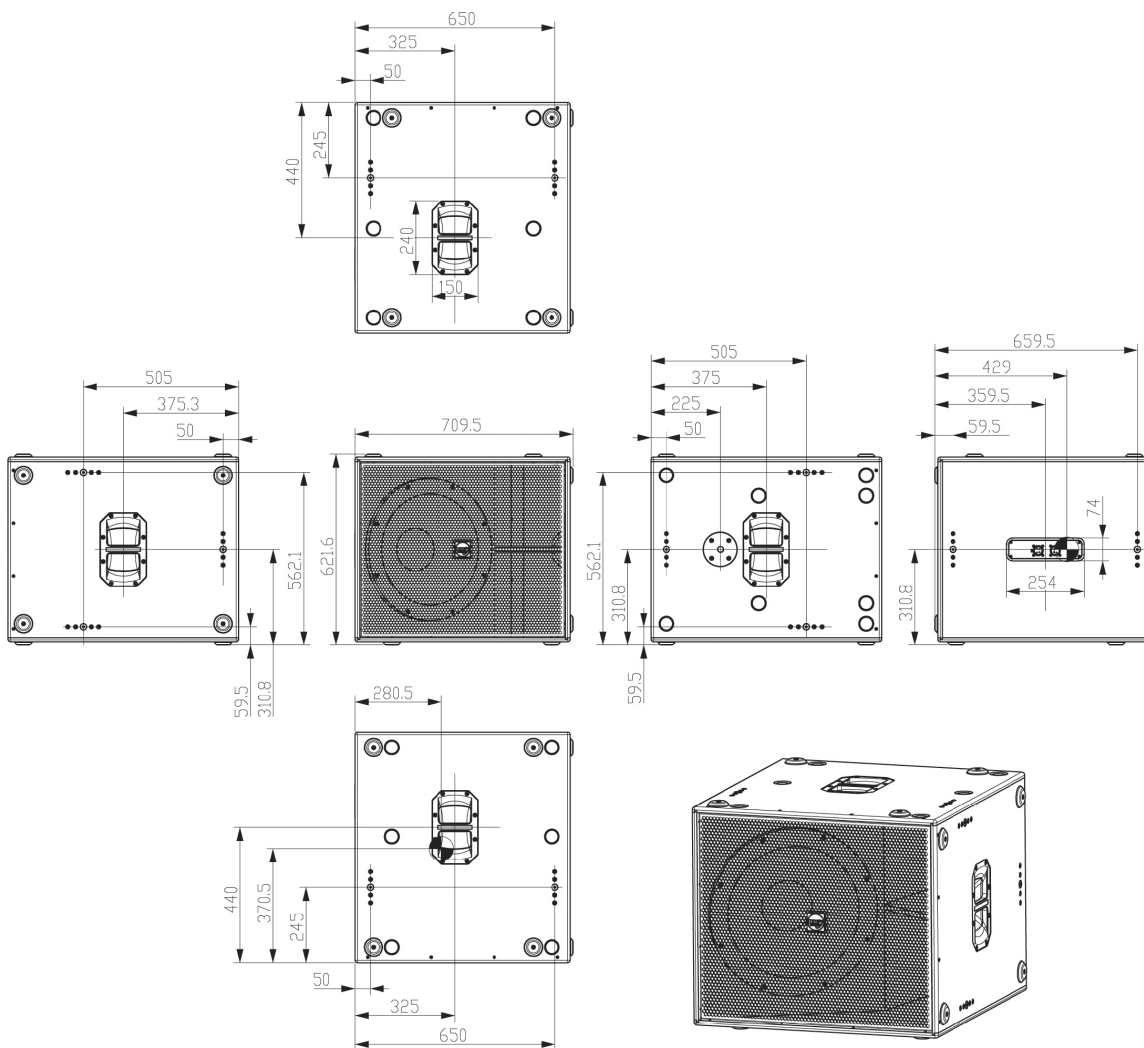
| | |
|--------|------------------|
| Height | 600 mm (23.62") |
| Width | 700 mm (27.55") |
| Depth | 750 mm (29.52") |
| Weight | 52 kg (114.4lbs) |

Architectural Specifications

The bass module loudspeaker system shall incorporate one 18-inch low frequency (LF) transducer with ferrite motor and 4-inch polyimide, high-temperature 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



The future of sound. Made perfectly clear.



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