

ESD25 Technical Data Sheet

Product code: KVV 987 368

Introduction

The ESD25 is a very high quality 2-way full-range compact low profile passive loudspeaker with increased lower bass extension than the smaller ESD5. Its opposing driver design assists with pattern control of the low mid frequencies reducing reflections in reverberant spaces and improving intelligibility. Delivering exceptional clarity for speech and program reproduction the ESD25 is ideal for under balcony or front stage fill applications in theatres and performing arts spaces where transparent supplementation of the main system is required. As with the already widely acclaimed ESD5 the ESD25 is shaped to fit discreetly into these applications and comes with its on integral bracket for quick installation.



Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 120dB sustained output, 123dB peak with very high dynamic range
- Compact cabinet design allows for use as front fill, in-fill or under balcony applications
- Wide dispersion 90° H x 90° V horn
- Revolutionary new passive delay line
- 1/1.3" (34,4 mm) diaphragm compression driver with complex geometry phase plug for higher output, exceptionally low distortion, extended frequency response and ferrite magnetic motor structure
- Two 5" woofers with Low Inductance Lightweight voice coil technology and motor structure dramatically increases force and lowers distortion
- Proprietary design for simplified mounting integrates two M10 suspension points

Application

Specifically designed as a discreet passive loudspeaker for reproduction of recorded music and speech

- Suitable in fixed installations as a full range speaker or as a system with accompanying subwoofers
- Excellent peripheral reinforcement for main KV2 systems
- Fill-in speaker
- Monitoring
- Ceiling or under balcony mounting

| System Acoustic Performance | |
|-----------------------------|----------------|
| Max SPL Long-term | 118dB |
| Max SPL Peak | 124dB |
| -3dB Response | 120Hz to 22kHz |
| -10dB Response | 72Hz to 28kHz |
| Recommended Power | 200W |
| Sensitivity | 92dB |
| Impedance | 8Ω |
| Crossover Point | 3.0kHz |

| High Frequency Section | |
|--|-------------|
| Acoustic Design | Horn Loaded |
| High Horn Coverage Horizontal / Vertical | 90° x 90° |
| Throat Exit Diameter / Diaphragm Size | 1" / 1.3" |
| Diaphragm Material | Titanium |
| Magnet Type | Ferrite |
| Protection | RMS Limiter |

| Low Frequency Section | |
|--|----------------------------|
| Acoustic Design | Closed box |
| Number of Drivers | 2 |
| Woofer Size / Voice Coil Diameter / Design | 5" / 1.75" |
| Diaphragm Material | Epoxy Reinforced Cellulose |
| Magnet Type | Ferrite |
| Protection | RMS Limiter |

| Speaker Input | |
|---------------|-------------------------------------|
| Speaker Input | 2x Neutrik Speakon®, Terminal Block |

| Cabinet | |
|------------------|---------------------------------------|
| Cabinet Material | Baltic birch |
| Color | "Orange peeled" Matt Black or any RAL |

| Physical Dimensions | |
|---------------------|------------------|
| Height | 150 mm (5.9") |
| Width | 442 mm (17.4") |
| Depth | 260 mm (10.24") |
| Weight | 9.6 kg (21.2lbs) |

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Architectural Specifications

The Loudspeaker shall be a 2-way design using SLA Technology (Super Live Audio) and shall be driven and controlled by a dedicated matched Amplifier (ESP2000, ESP4000 or alternatively with a third party amplifier of the users choice).

The Loudspeaker enclosure shall consist of two 5" Ferrite magnet structure Bass drivers and one 1" Titanium Compression driver mounted to a low compression horn assembly.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant paint finish.

The Loudspeaker components shall be protected by an acoustically transparent rigid metal grille.

The enclosure shall incorporate one M10 Fixing point on the top and bottom panels to allow flexible fixing and rigging options.

The enclosure shall incorporate a recessed connection panel and will be fitted with a double input/output Speakon locking connector.

A 4 pole barrier strip will be incorporated in the connection panel to allow bare wire connection.

The Loudspeaker shall have a maximum long term pressure level of 118dB, a total peak power handling capacity of 200W, a nominal Horizontal and Vertical dispersion of 90 deg and have a measured on axis frequency response of 120Hz to 22KHz (-3dB).

The Enclosure dimensions shall be: 442 mm /17.4" x 150 mm /5.9" x 260 mm /10.24"

The Enclosure shall not exceed a weight of 9,6 kg /21.2lbs.

The dedicated Amplifier shall be the KV2 Audio ESP2000/4000 (or alternative third party amplifier).

Dimensional Drawings

