ESD25 Technical Data Sheet

Introduction

Product code: KVV 987 368

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 intelligability. 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
- 118 dB sustained output, 124 dB 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 Perfomance	
Max SPL Long-term	118 dB
Max SPL Peak	124 dB
-3 dB Response	120 Hz to 22 kHz
-10 dB Response	72 Hz to 28 kHz
Recommended Power	200 W
Sensitivity	92 dB
Impedance	8 Ω
Crossover Point	3.0 kHz
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

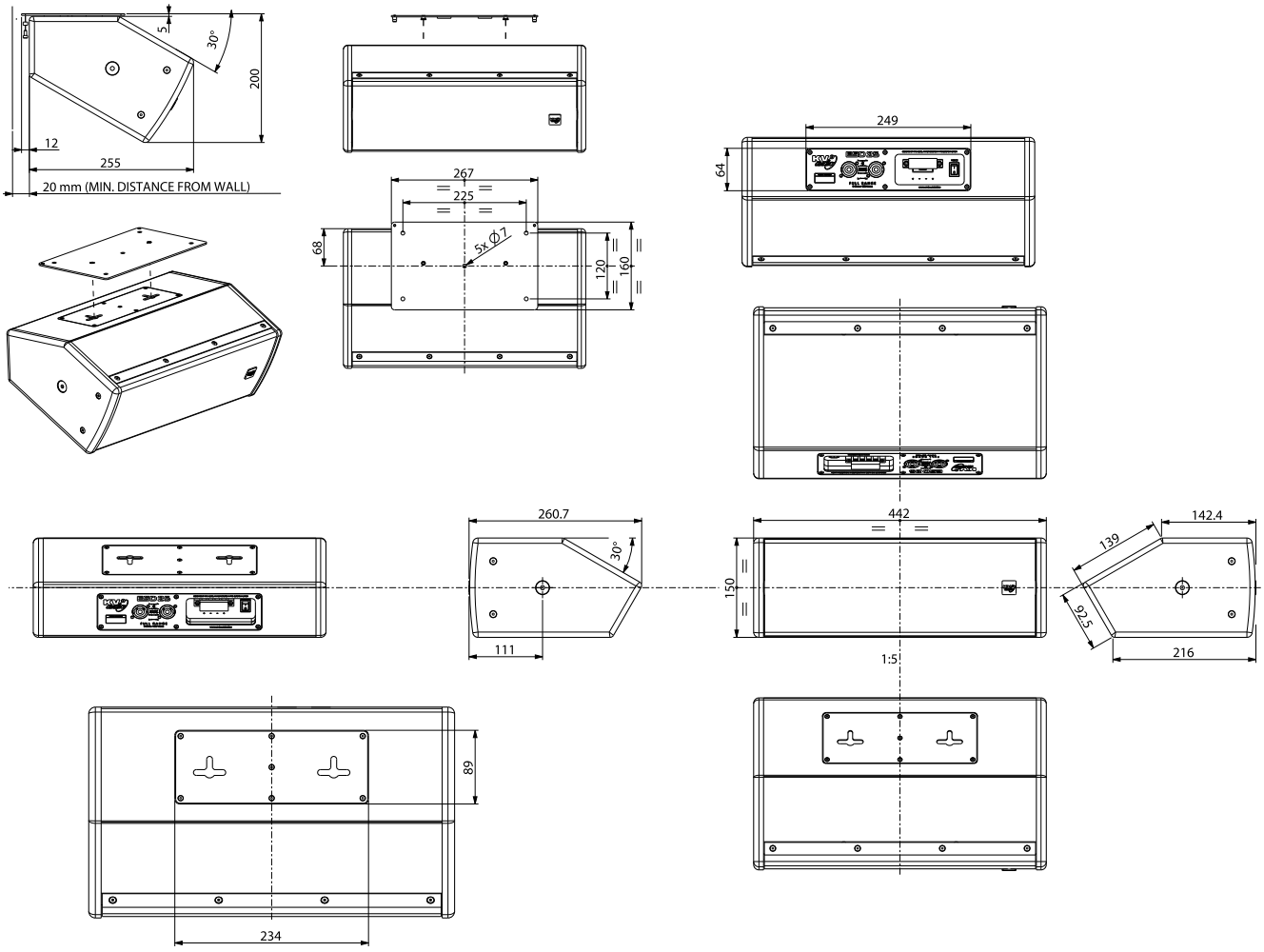
Speaker Input	
Speaker Input	2× Neutrik Speakon®, Terminal Block
Cabinet	
Cabinet Material	Baltic birch
Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	
Height	150 mm (5.9")
Width	442 mm (17.4")
Depth	260.7 mm (10.26")
Weight	9.6 kg (21.2 lb)

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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 118 dB, a total peak power handling capacity of 200 W, a nominal Horizontal and Vertical dispersion of 90 deg and have a measured on axis frequency response of 120 Hz to 22 kHz (-3 dB).
The Enclosure dimensions shall be: 442 mm /17.4" x 150 mm /5.9" x 260.7 mm /10.26"
The Enclosure shall not exceed a weight of 9.6 kg /21.2 lb.
The dedicated Amplifier shall be the KV2 Audio ESP2000/4000 (or alternative third party amplifier).

Dimensional Drawings



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