ESD5 Technical Data Sheet

Introduction

Product code: KVV 987 340

The ESD5 is a very high quality 2-way full-range compact low profile passive loudspeaker with performance that defies its size. Delivering exceptional clarity for speech and program reproduction, the ESD5 is perfect for discreet installations and audio visual presentations where sound quality is paramount, but aesthetic dimensions are of equal importance. The ESD5's high impedance capability means that up to sixteen units can be run from a single suitable quality stereo amplifier, to provide a high fidelity background program throughout a venue.

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 115 dB sustained output, 118 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
- 5" woofer 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 super- 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	109 dB
Max SPL Peak	115 dB
-3 dB Response	125 Hz to 22 kHz
-10 dB Response	74 Hz to 28 kHz
Recommended Power	100 W
Sensitivity	89 dB
Impedance	16 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
Woofer Size / Voice Coil Diameter	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	316 mm (12.4")
Depth	225 mm (8.84")
Weight	7 kg (15.4 lb)

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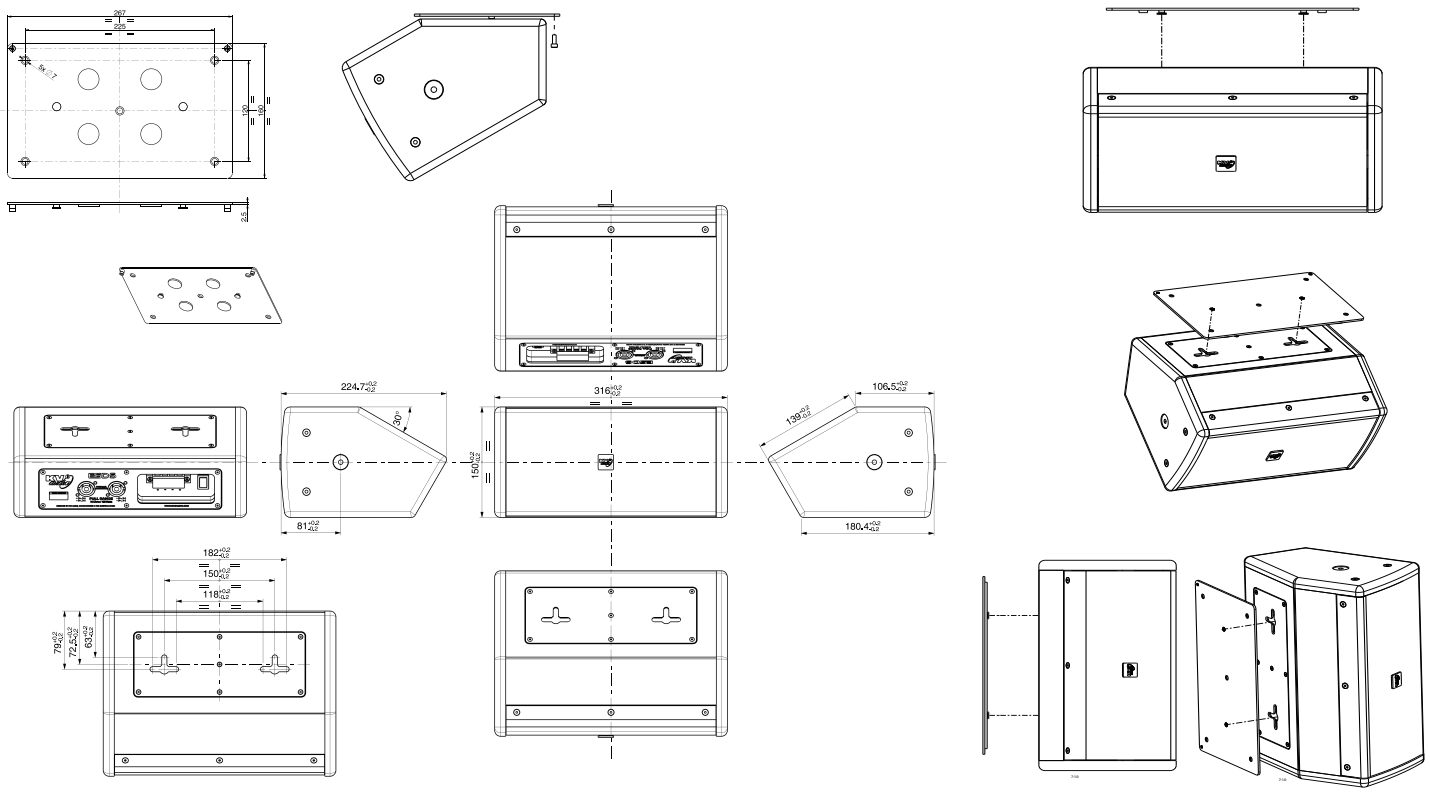
Architectural Specifications

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 one 5" Ferrite magnet structure Bass driver 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 115 dB, a total peak power handling capacity of 170 W, a nominal Horizontal and Vertical dispersion of 90 deg and have a measured on axis frequency response of 130 Hz to 22 kHz (-3 dB).
The Enclosure dimensions shall be: 316 mm /12.4" x 150 mm /5,9" x 225 mm /8.84"
The Enclosure shall not exceed a weight of 7 kg /15.4 lb.
The dedicated Amplifier shall be the KV2 Audio ESP2000/4000 (or alternative third party amplifier).

Dimensional Drawings



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