

ESD36 Technical Data Sheet

Introduction

One of the more unique loudspeakers offered by KV2 Audio the ESD36 is a passive, full-range 3-way speaker system for speech and music reproduction. The ESD36 features a 6" driver dedicated to high quality mid-range reproduction and a further two low frequency 6" drivers for enhanced bass extension. Alongside the same compression driver as featured in the popular EX6, the ESD36 offers comparable performance to many 12" cabinets with an enhanced vocal performance from this 3-way design.

Features

- Professional, Baltic birch construction with wear resistant polymer coating
- 122dB sustained output, 125dB peak with very high dynamic range
- Compact, asymmetrical cabinet design allows for use as front fill or in under balcony applications
- Wide dispersion 100° H x 100° V horn
- Revolutionary new passive delay line
- 1.75" (44 mm) Nitride Titanium diaphragm compression driver with complex geometry phase plug for higher output, exceptionally low distortion, extended frequency response and neodymium magnetic motor structure
- 6" Low Inductance Lightweight mid-range dedicated to high-quality vocal reproduction
- 2 x Low Inductance Lightweight low frequency woofers offer enhanced bass performance
- Proprietary top handle design for simplified handling and carrying, integrates one M10 suspension point, Omnimount™ bracket point and four M6 points
- Additional side and bottom M10 points for flexible bracket, rigging and installation options
- "Top-hat" pole mount fitted at the base of the cabinet



Application

Specifically designed as a passive loudspeaker for reproduction of recorded music in small areas

- Suitable in Fixed installations as full range stand-alone or with subwoofers
- Multi-purpose fixed installations
- Domestic and Professional studio monitoring

System Acoustic Performance	
Max SPL Long-term	122dB
Max SPL Peak	125dB
-3dB Response	65Hz to 25kHz
-10dB Response	57Hz to 30kHz
Recommended Power	350W
Sensitivity	94dB
Impedance	8Ω
Crossover Point	600Hz, 2.5kHz

High Frequency Section	
Acoustic Design	Horn Loaded
High Horn Coverage Horizontal / Vertical	100° x 100°
Throat Exit Diameter / Diaphragm Size	1" / 1.75"
Diaphragm Material	Nitride Titanium
Magnet Type	Neodymium
Protection	RMS Limiter

Mid Range Section	
Acoustic Design	Low Inductance Lightweight
Woofer Size / Voice Coil Diameter	6" / 1.75"
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Protection	RMS Limiter

Low Frequency Section	
Acoustic Design	Front Loaded, Bass Reflex
Woofer Size / Voice Coil Diameter	2 x 6" / 1.75"
Magnet Type	Neodymium
Diaphragm Material	Epoxy Reinforced Cellulose
Protection	RMS Limiter

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

Cabinet	
Cabinet Material	Baltic birch
Handles	1
Pole Mount	35mm
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	730.5 mm (28.76")
Width	220 mm (8.66")
Depth	244 mm (9.60")
Weight	17.6 kg (38.8lbs)

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Architectural Specifications

The Loudspeaker shall be a 3-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 6" Neodymium magnet structure Bass driver, one 6" Neodymium magnet structure Mid driver and one 1" Neodymium 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 grill supported by absorbent rubber seals.

The enclosure shall incorporate one ergonomically designed recessed handle on the top panel, which will incorporate four M6 points to facilitate Omnimount™ attachment.

The enclosure shall incorporate one M10 fixing point on each side panel to facilitate ESD36 V & H bracket fixing and a single Top Hat Pole mount will be fitted to the base panel.

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 122dB, a total peak power handling capacity of 350W with a nominal Horizontal and Vertical dispersion of 100 deg and have a measured on axis frequency response of 65Hz to 25KHz (-3dB)

The Enclosure dimensions shall be: 730 mm /28.76" x 220 mm /8.66" x 244 mm /9.60"

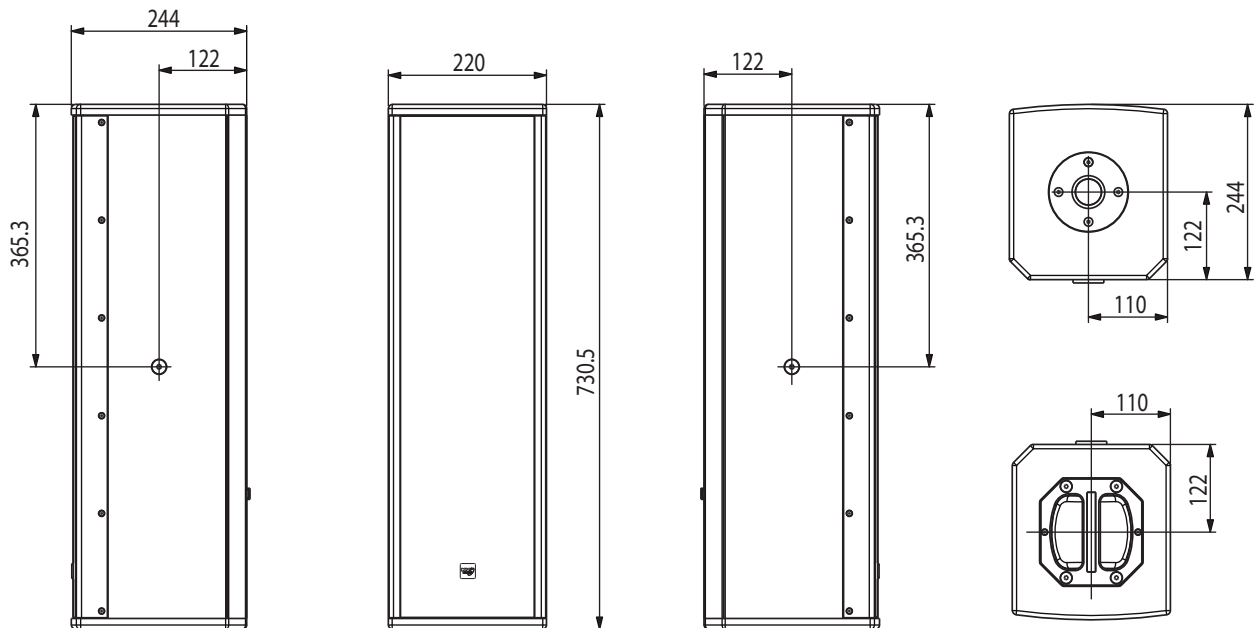
The Enclosure shall not exceed a weight of 17.6 kg /38.8lbs.

The Loudspeaker shall be the KV2 Audio ESD36.

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

The dedicated fly ware shall be the ESD36 Vertical or Horizontal Bracket.

Dimensional Drawings



The future of sound. Made perfectly clear.



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