

ESD8 Technical Data Sheet

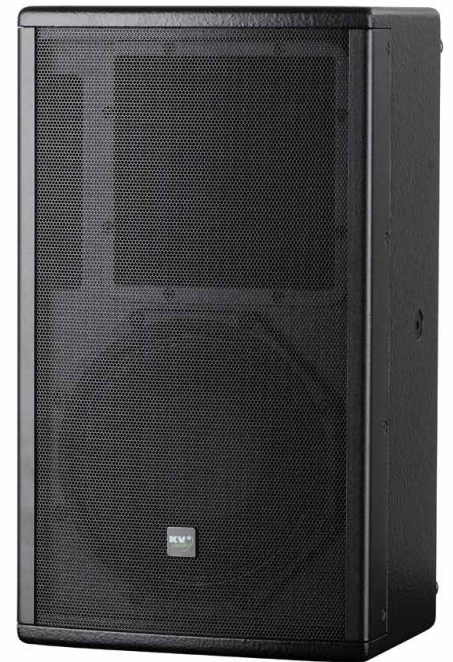
Product code: KVV 987 423

Introduction

The ESD8 is a compact passive 2-way, high output full-range loudspeaker incorporating an 8" trans-coil woofer and a 1" compression driver coupled to a wide dispersion horn. Presented conservatively in a unique angled low-profile Baltic birch enclosure and designed to present exceptional speech and music definition, the ESD8 provides a smooth hi fidelity response and delivers a natural sound quality and level that is superior to many larger competing products. Ideal as a main system speaker or as an in-fill for larger systems, the flexible ESD8 can be applied quickly and efficiently on podiums, stands or suspended.

Features

- Professional Baltic birch construction with unique angles for flexible use
- Compact enclosure allows discreet placement and application
- Wide dispersion 100 H x 100 V Horn
- Revolutionary new passive delay line
- 1" / 1,75" Titanium diaphragm compression driver
- 8" Neodymium low mid woofer



Application

Purpose designed as a discreet portable passive loudspeaker for speech and music content

- Corporate presentations and functions
- Full range performance with addition of subwoofers
- Infills
- Close monitoring
- Fixed installations

System Acoustic Performance	
Max SPL Long-term	121dB
Max SPL Peak	124dB
-3dB Response	80Hz to 20kHz
-10dB Response	62Hz to 28kHz
Recommended Power	275W
Sensitivity	94dB
Impedance	8Ω
Crossover Point	2.2kHz

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

Low Frequency Section	
Acoustic Design	Front Loaded, Bass Reflex
Number of Drivers	1
Woofer Size / Voice Coil Diameter / Design	8" / 2" / Trans coil
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Protection	Thermal breaker - auto reset

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

Cabinet	
Cabinet Material	Baltic birch
Handles	1
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	456 mm (17.95")
Width	260 mm (10.23")
Depth	260 mm (10.23")
Weight	13 kg (28.6lbs)

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Architectural Specifications

The Loudspeaker shall be a 2-way passive design using SLA Technology (Super Live Audio) and shall be driven and controlled by a dedicated matched Amplifier.

The Loudspeaker enclosure shall consist of one 8" Neodymium magnet structure Transcoil woofer and one 1" Neodymium Compression driver mounted to a low compression horn assembly.

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

The Loudspeaker components shall be protected by an acoustically transparent rigid metal grille 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 four nonslip rubber feet each on the bottom and angled rear side.

The enclosure shall incorporate one M10 fixing point on each side panel to facilitate ESD8 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 121dB, a total peak power handling capacity of 275W, a nominal Horizontal and Vertical dispersion of 100 x 100 deg and have a measured on axis frequency response of 80Hz to 20KHz (-3dB), 62Hz to 28kHz (-10dB).

The Enclosure dimensions shall be: 456mm / 17.95" x 260mm / 10.23" x 260mm / 10.23"

The Enclosure shall not exceed a weight of 13 kg / 28.66lbs.

The Loudspeaker shall be the KV2 Audio ESD8.

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

The dedicated fly ware shall be the KVV 987 517 ESD8 Horizontal bracket and KVV 987 518 ESD8 Vertical bracket.

Dimensional Drawings

