

TECHNICAL DATA SHEET

The EMS-41 is an ultra-compact loudspeaker intended for a wide variety of near field and background sound applications - particularly where a very compact and discreet solution is required to be distributed over wide areas, yet whilst still retaining high SPL capability and exceptional intelligibility. With its space-saving coaxial design, this loudspeaker will blend unobtrusively and easily into many venue types and styles.

FEATURES AND BENEFITS

- Coaxial design for true point-source performance
- Compact and lightweight trapezoidal enclosure
- Genuine plywood cabinet for sonic benefit over plastic
- True passive design - no corrective DSP required
- Flexible rigging and mounting options
- Horizontal yoke included

The EMS-41 is a two-way passive coaxial loudspeaker, using a 4" (102mm) low frequency transducer and coaxially mounted 0.85" (21.6mm) high frequency compression driver. The enclosure is an infinite baffle design designed to provide a much smoother LF rolloff and extended bass response than would be expected from an enclosure of this size.

The drive unit is housed within a compact, sealed enclosure constructed from premium 12mm (1/2") and 18mm (3/4") multi-laminate Birch plywood with curved, trapezoidal sides designed for a pleasing aesthetic suitable for many venue types. Three M8 threaded fixings are incorporated around the enclosure (one top, one bottom, and one on the rear) for attachment of rigging hardware and safeties. The enclosure includes a pair of Neutrik® speakON™ NL4 connectors for input and enclosure link, as well as a 4-pole Phoenix connector with mating connector supplied. A tough perforated steel grille protects the drive units from damage, and can be quickly removed for service purposes. The enclosure is finished in black or white textured paint as standard, however RAL colour matching options are also available.

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:

DIMENSIONS: (HxWxD): :

NET WEIGHT:

FREQUENCY RESPONSE¹:SENSITIVITY²:DISPERSION³:

DRIVE UNITS:

POWER HANDLING:

MAXIMUM SPL⁴:

NOMINAL IMPEDANCE:

CROSSOVER:

CONNECTORS:

ENCLOSURE:

RIGGING & HARDWARE:

GRILLE:

OPTIONS:

Infinite baffle, coaxial

150 (5.9) x 120 (4.7) x 130 (5.1) mm/(ins)

1.6kg (3.5lbs)

100Hz – 18kHz ± 3dB

86dB

80° conical

Coaxial 4" (100mm) LF / 0.85" (21.5mm) exit HF

125W RMS, 250W program

110dB continuous, 116dB peak

12 ohms

Asymmetric internal passive

2 x Neutrik® speakON™ NL4, Phoenix connector

12mm/18mm (1/2" / 3/4") multi-laminate Birch plywood

3 x M8 threaded mounting points. Horizontal yoke supplied as standard

Perforated steel

Colours

NOTES ON MEASUREMENT CONDITIONS:

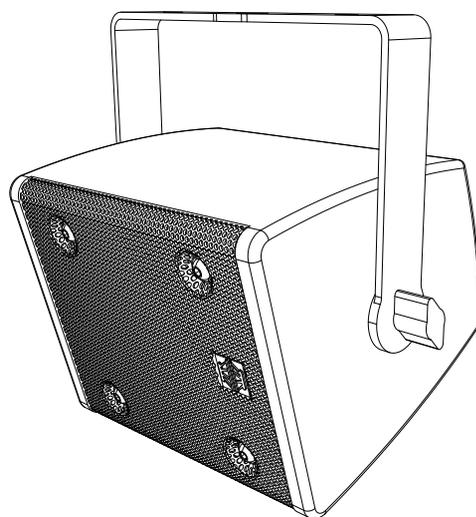
¹Measured on-axis at 2m in an anechoic environment and referenced to 1m. ²Measured in half space at 2m with 4W sine wave input and referenced to 1m. ³Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. ⁴Calculated and verified by subjective listening test of familiar program material.



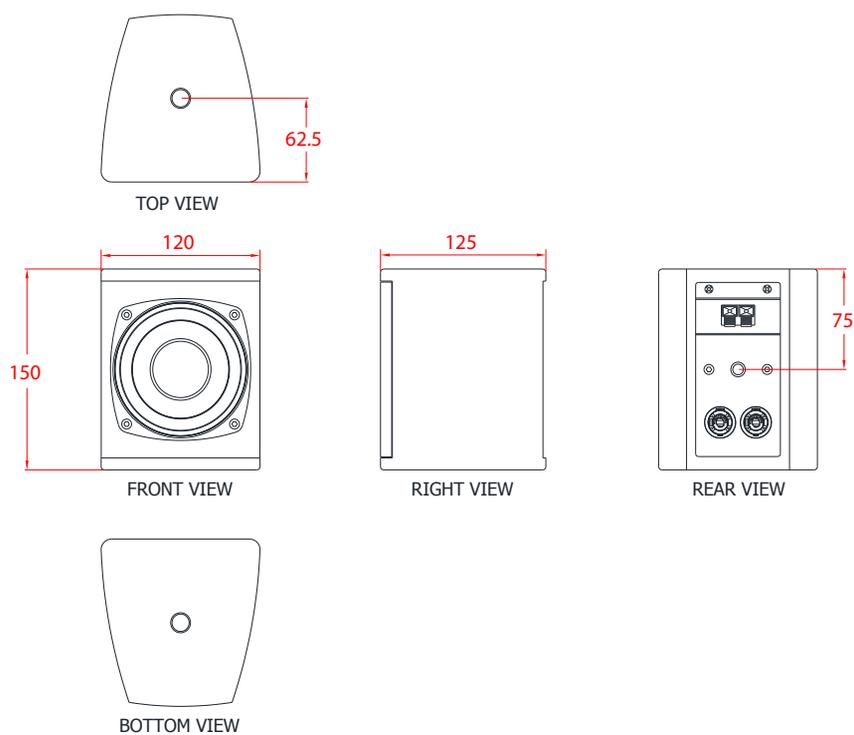
The EMS-41 is ideal for theatrical spot effects, fill loudspeakers and delays, background sound, as well as for corporate and AV use. Due to the discreet appearance, the EMS-41 can also find use in domestic AV systems and studio monitoring. For ease of use, the EMS-41 is supplied with an adjustable horizontal mounting yoke, and further optional accessories are available for single-point mounting from the rear.

The EMS-41 requires a single amplifier channel, and should be used with professional power amplifiers capable of delivering 150-250W RMS into a 12-ohm load. For optimal results, either the DQ Series Advanced System Amplifiers, or the AQ or AD Series amplifiers combined with DSC48 processors should be used.

RIGGING ACCESSORIES



ENGINEERING DRAWING



ENCLOSURE OPTIONS

EMS-41 enclosures are supplied as standard in black or white. Any RAL colour can be supplied on request (extended lead time and setup charges apply).