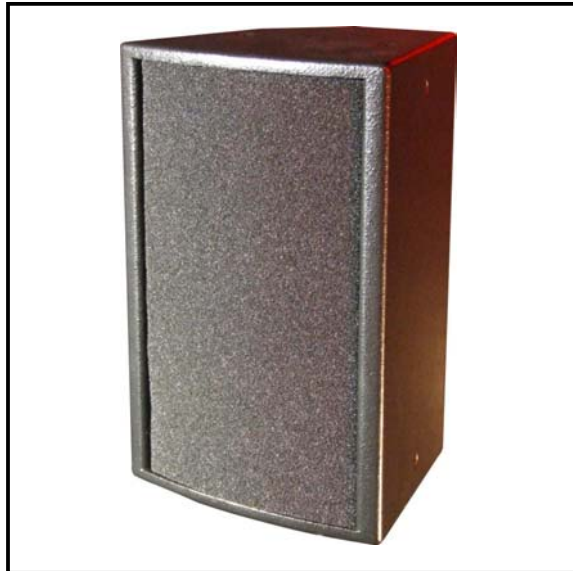


EMS-81 LOUDSPEAKER



The EMS-81 is a compact, versatile loudspeaker, designed with flexibility in mind. The unrivalled ease-of-use afforded by passive loudspeaker technology allows the EMS-81 to be an extremely cost-effective and practical loudspeaker for a wide variety of applications, whilst providing a sonic performance that is unmatched by other loudspeakers of this type.

Typical applications for the EMS-81 include small to medium front of house for live use, delay rings in large installations, bar or club infill loudspeakers or reinforcement for corporate applications. Due to the low profile nature of the design, the EMS-81 is also ideal for compact floor monitoring in live, theatrical or television applications.

The compact enclosure is constructed from CNC-machined Birch plywood, and houses a reflex-loaded 8" (203mm) LF driver and a 1" (25mm) exit HF compression driver on a 90°H x 60°V waveguide. This waveguide is rotatable to allow easy use as a floor monitor or for flying horizontally.

An internal UniPhase1 passive crossover maintains flat frequency and phase responses, allowing the EMS-81 to compare to products requiring dedicated control devices while only utilising one amplifier channel. The UniPhase network drastically reduces the time-smearing typically encountered with passive enclosures of this type.

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	2-way reflex loaded	Notes on measurement conditions: ¹ Measured on-axis ² Average SPL over stated bandwidth with 1W input, measured at 1m ³ Nominal dispersion, averaged over stated bandwidth
DIMENSIONS (HxWxD):	461 (18.1) x 308 (12.1) x 268 (10.6) mm/(ins)	
NET/SHIPPING WEIGHT:	15/16kg	
FREQUENCY RESPONSE ¹ :	80Hz – 20KHz +/- 3dB	
SENSITIVITY ² :	96dB	
DISPERSION ³ :	90° x 60° rotatable	
DRIVE UNITS:	1 x 8" (203mm) LF cone drive unit 1 x 1" (25mm) exit HF compression drive unit	
POWER HANDLING:	250W RMS, 500W program	
MAXIMUM SPL:	120dB continuous, 126dB peak	
NOMINAL IMPEDANCE:	8 ohms	
CROSSOVER:	UniPhase1 internal passive	
CONNECTORS:	2 x Neutrik Speakon™ NL4MP	
ENCLOSURE:	15mm (5/8") multi-laminate Birch plywood – rebated, screwed & glued. Finished in black Warnex textured paint	
RIGGING/SUSPENSION:	10 x M10 internal flypoints 4 x M6 internal flypoints for Omnimount™ Series 30/Powerdrive™ Series 75 products 35mm polemount socket	
GRILLE:	Black foam on polyester coated expanded steel mesh	
OPTIONS:	EMS-81i (install only) EMS-81 outdoor treatment EMS-81WP (weather protected outdoor model) Colours Connectors	

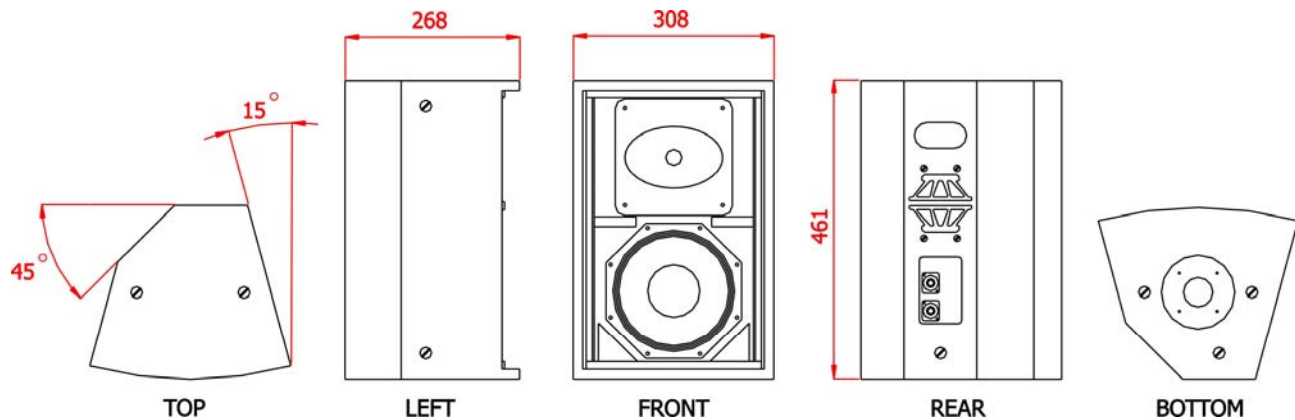
EM Acoustics operates a continuous policy of research and development, and as such reserves the right to alter specifications without notice

TECHNICAL DATA SHEET



EMS-81 LOUDSPEAKER

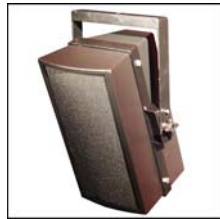
ENGINEERING DRAWING



OPTIONAL RIGGING HARDWARE



FC-81h FLYING CRADLE



FC-81v FLYING CRADLE



M10 FORGED SHOULDER
EYEBOLTS



POWERDRIVE WHH75
WALL BRACKET

ENCLOSURE OPTIONS

EMS-81i

Dedicated installation version of the EMS-81 without polemount or handle, and supplied with 1 x Neutrik Speakon™ NL4MP and 1 x 4-way barrier strip input.

EMS-81 outdoor treatment

Semi-outdoor version of EMS-81, designed for temporary outdoor use. Enclosure is supplied in standard configuration, with stainless steel fixings throughout and weatherproof coatings sprayed onto LF drive unit and woodwork before paint finish is applied.

EMS-81WP

Dedicated outdoor version of the EMS-81, designed for permanent installation. Supplied with no handle, rear logo, rear M6 points or polemount, with connector panel on underside to prevent moisture ingress. Stainless steel fixings throughout, and weatherproof coatings sprayed onto LF drive unit and onto woodwork before paint finish is applied.

Colours

Supplied as standard in black, however white & grey are available as options. By special order, any colour can be provided if the relevant RAL or Pantone colour code or a colour sample is provided.

Connectors

Neutrik Speakon™ NL4MP connectors supplied as standard. EMS-81 can be supplied with XLR connectors, or non-standard connectors by special order.