

The EMS-115 is a compact, powerful subwoofer, intended to support fullrange loudspeakers from the EMS Series. It was designed with flexibility in mind – and consequently is at home either as a small-scale FOH subwoofer, or discreetly installed in a wide range of applications.

FEATURES AND BENEFITS

- High power-to-size ratio
- Exceptional frequency and impulse response ensure fast, accurate low frequencies
- Compact size and light weight for ease of use and installation
- Flexible options for use with fullrange products
- Ceramic magnet variant for cost-sensitive applications

Two options are available with this subwoofer model – both utilising a high excursion 15" (381mm) drive unit with a 4" voice coil. The standard EMS-115 is fitted with a neodymium drive unit, to keep weight to a minimum for touring applications. For installation or more cost-sensitive applications, the EMS-115C is identical in appearance and performance, yet contains a ceramic magnet drive unit which results in a more cost effective loudspeaker, with a slight increase in weight.

The rugged enclosure is constructed from premium 18mm (3/4") multi-laminate Birch plywood - rebated, screwed & glued together for maximum strength. Two flush handles are provided as standard, and a full length 35mm or M20 threaded polemount socket is provided to support fullrange enclosures above the subwoofer. A hex-punched steel grille backed by acoustically transparent black foam protects the drive unit from damage and moisture. The drive unit is accessed from a recessed door on the top of the enclosure for ease of service. For mobile applications, an optional set of four grade castors is available. Rubber

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Single driver quasi-bandpass subwoofer
DIMENSIONS (HxWxD):	495 (19.5) x 516 (20.3) x 700 (27.6) mm/(ins)
NET/SHIPPING WEIGHT:	EMS-115: 39kg net/42kg shipping (85.8/92.4lbs) EMS-115C: 44kg net/47.5kg shipping (96.8/104.5lbs)
FREQUENCY RESPONSE ¹ :	50Hz – 150Hz +/- 3dB
SENSITIVITY ² :	98dB
DISPERSION ³ :	Omnidirectional
DRIVE UNITS:	1 x 15" (381mm) LF cone drive unit (neodymium in EMS-115, ceramic in EMS-115C)
POWER HANDLING:	500W RMS, 1000W program
MAXIMUM SPL ⁴ :	126dB continuous, 132dB peak
NOMINAL IMPEDANCE:	8 ohms
CROSSOVER:	Active, recommended below 120Hz (24dB/Octave L-R)
CONNECTORS:	2 x Neutrik SpeakON™ NL4MPP
ENCLOSURE:	18mm (3/4") multi-laminate Birch plywood – rebated, screwed & glued. Finished in impact resistant textured paint
ENCLOSURE HARDWARE:	2 x flush handles 1 x 35mm or M20 polemount socket for mid/high enclosures 4 x rubber feet & mating recesses
GRILLE:	Foam-backed hex punched steel
OPTIONS:	Colours/Weather Protection
SPARE PARTS:	DU-1504 15" (381mm) drive unit (EMS-115) DU-1506 15" (381mm) drive unit (EMS-115C) RK-1504 recone kit RK-1506 recone kit RFG-115 replacement foam/grille

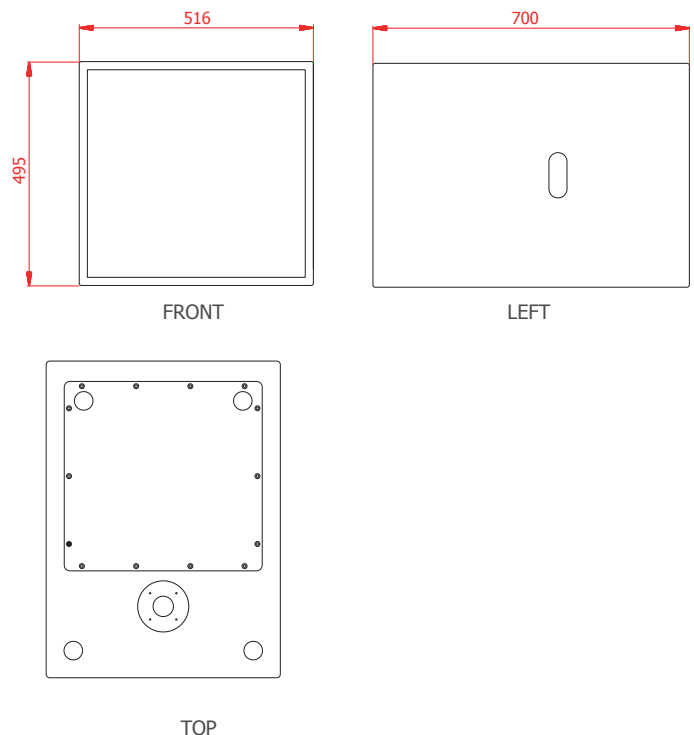


feet on the bottom of the enclosure with mating recesses on the top protect the enclosure from direct contact with the floor, and give extra stability when stacked in multiples. The two Neutrik SpeakON™ NL4MPP connectors are recessed into the rear to allow for neat cabling, or even to stand the subwoofer on-end when used in installation environments where space is a premium.

The EMS-115 can add low frequency power and extension to systems based around the EMS-61, EMS-81X or EMS-121X fullrange enclosures. The enclosure is finished in black or white textured paint as standard, however weather-protection options as well as custom RAL code colours are also possible.

The EMS-115/115C requires active high/low pass filters and a single amplifier channel capable of delivering 800-1000W RMS into an 8 ohm load. For best results the EM Acoustics AQ-10 or AD-9 amplifiers should be used.

ENGINEERING DRAWING



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.

