TECHNICAL DATA SHEET

EMS-112

COMPACT PASSIVE REFLEX SUBWOOFER

The EMS-112 is a compact, powerful subwoofer, designed to complement the smaller fullrange products within the EMS Series - especially the EMS-51, EMS-61 and EMS-81X - for a variety of applications. The optimally-tuned vented enclosure provides excellent transient response and low frequency reproduction without the aid of corrective equalisation. The EMS-112 has the advantage of being completely passive - having both a low-pass filter for the subwoofer itself, and also a seperate high-pass filtered output for fullrange boxes. This makes the EMS-112 a truly self-contained system, enabling subwoofer and fullrange loudspeaker to be run from a single amplifier channel.

FEATURES AND BENEFITS

- High power-to-size ratio
- Exceptional frequency and impulse response ensure fast, accurate low frequencies
- Integral passive low-pass filter, plus passive high-pass output for fullrange units
- Compact size and light weight for ease of use and installation
- Flexible options for use with fullrange products

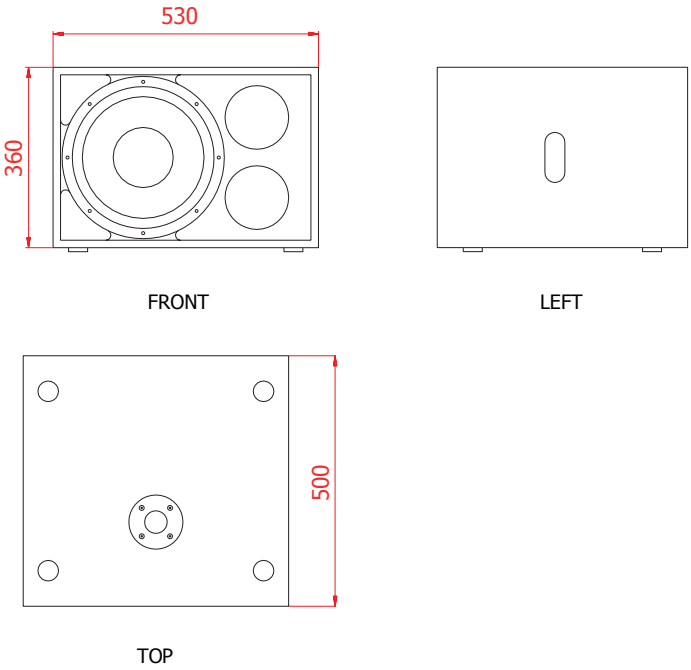
The compact enclosure is constructed from 15mm (5/8") Baltic birch plywood, and houses a single 4" voice coil, 12" (305mm) high-excursion LF drive unit. The enclosure includes a single M20 threaded polemount adapter – allowing the mounting of EMS series fullrange loudspeakers above. As standard the EMS-112 is fitted with rubber feet underneath and matching recesses on top to allow stable stacking of multiple enclosures, and two flush handles are provided on the sides. Three Neutrik SpeakON™ NL4MP connectors are provided on a recessed panel at the rear - two for input and enclosure link, and a third for the separate high-pass filtered output. Lastly, a tough hex punched steel grille protects the drive unit from damage whilst in use or in transit. The enclosure is finished in black or white textured paint as standard, though RAL colour matching and weather protection options are available.

The EMS-112 can add low frequency power and extension to systems based around any EM Acoustics fullrange product, but is particularly suited to the smaller products within the range. The EMS-112 requires a single amplifier channel capable of delivering 800-1000W RMS into a 8 ohm load. For best results the EM Acoustics AQ-10 or AD-9 amplifiers should be used.

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Single driver, passive reflex-loaded subwoofer
DIMENSIONS (HxWxD):	360 (14.2) x 530 (20.9) x 500 (19.7) mm/(ins)
NET/SHIPPING WEIGHT:	30/32kg (66/70.4lbs)
FREQUENCY RESPONSE[1]:	42Hz – 120Hz +/- 3dB
SENSITIVITY[2]:	93dB
DISPERSION[3]:	Omnidirectional
DRIVE UNITS:	1 x 12" (305mm) high excursion LF cone drive unit
POWER HANDLING:	500W RMS, 1000W program
MAXIMUM SPL[4]:	124dB continuous, 130dB peak
NOMINAL IMPEDANCE:	8 ohms
CROSSOVER:	Internal passive low-pass & high-pass output
CONNECTORS:	3 x Neutrik SpeakON™ NL4MP
ENCLOSURE:	15mm (5/8") multi-laminate Birch plywood – rebated, screwed & glued. Finished in impact resistant textured paint
ENCLOSURE HARDWARE:	2 x flush handles 1 x M20 polemount socket for mid/high enclosures 4 x rubber feet & matching recesses
GRILLE:	Hex punched steel
OPTIONS:	Colours/Weather Protection
SPARE PARTS:	DU-1204 12" (305mm) drive unit RK-1204 recone kit PX-112 passive crossover assembly RG-112 replacement steel grille

ENGINEERING DRAWING



FRONT

LEFT

TOP

NOTES ON MEASUREMENT CONDITIONS:

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