

M-10

compact passive floor monitor



FEATURES AND BENEFITS:

- signature EM Acoustics passive crossover for unprecedented frequency & phase response
- astonishing LF performance for enclosure size
- extremely compact and lightweight enclosure
- precise, predictable HF coverage pattern

The M-10 is an ultra-compact, low profile floor monitor designed for any application where compact yet powerful artist reference is required. Developed in conjunction with Wigwam Acoustics Ltd, the M-10 is ideally suited to applications where a very low profile and small footprint monitor is required, yet reasonable LF extension is still necessary. Utilising our latest passive crossover topologies, and the utmost in drive unit technology, this loudspeaker is completely passive yet outperforms many bi-amplified or processed designs.

The M-10 is a two-way passive floor monitor, using a 2.5" voice coil 10" (254mm) neodymium low frequency transducer. This low frequency drive unit is coupled via the internal passive crossover network to a 1.7" (44mm) diaphragm, 1" (25mm) exit neodymium compression drive unit. This drive unit loads onto a 80H x 60V constant-coverage horn, which yields not only consistent response throughout its operating band across the whole coverage pattern but also strong attenuation outside of this pattern. The result is a loudspeaker with extremely consistent and predictable coverage, as well as stunning sonic detail – and all with the ease of use that passive crossover technology brings.

The drive units are housed within a compact vented enclosure. The robust enclosure is constructed from premium 15mm (5/8") multi-laminate Birch plywood, and is braced to minimise panel reflection. The enclosure includes a pair of flush handles on the sides, and a pair of Neutrik SpeakON™ NL4MPR connectors for input & enclosure link. The connectors are recessed on the rear for discreet cable management. Lastly, a tough hex-punched steel grille backed with acoustically transparent foam protects the drive units from damage - which can be quickly removed for service purposes. The enclosure is finished in black or white textured paint as standard, however RAL colour matching and weather resistant options are also available.

The M-10 requires a single amplifier channel, and should be used with professional power amplifiers capable of delivering 500-600W RMS into an 8-ohm load. For optimal results, the EM Acoustics AQ-3 power amplifier should be used.

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| ENCLOSURE TYPE: | two-way passive, reflex loaded |
| DIMENSIONS (HxWxD): | 297 (11.7) x 560 (22) x 400 (15.7) mm/(ins) |
| NET/SHIPPING WEIGHT: | 17/19kg (37.4/41.8lbs) |
| FREQUENCY RESPONSE¹: | 70Hz – 20kHz +/- 3dB |
| SENSITIVITY²: | 98dB |
| DISPERSION³: | 80H x 60V |
| DRIVE UNITS: | 10" (254mm) neodymium LF cone drive unit 1" (25mm) exit neodymium HF compression drive unit |
| POWER HANDLING: | 300W RMS, 600W program |
| MAXIMUM SPL⁴: | 122dB continuous, 128dB peak |
| NOMINAL IMPEDANCE: | 8 ohms |
| CROSSOVER: | asymmetric internal passive |
| CONNECTORS: | 2 x Neutrik SpeakON™ NL4MPR |
| ENCLOSURE: | 15mm (5/8") multi-laminate Birch plywood – rebated, screwed & glued. Finished in impact resistant textured paint |
| ENCLOSURE HARDWARE: | 2 x flush handles 4 x rubber feet |
| GRILLE: | hex-punched steel backed with acoustically transparent foam |
| OPTIONS: | Colours/Weather Protection |
| SPARE PARTS: | DU-1001 10" drive unit CDU-1002 1" exit HF compression drive unit RK-1001 recone kit RD-1002 replacement HF diaphragm PX-M10 passive crossover assembly RFG-M10 replacement grille/foam |

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.

