Monitor Series

- The MR8 is the result of extensive research in the development of new transducers and crossover design. The result is a product with exceptional fidel-ity, the ability to produce deep controlled bass and extended high frequencies without sacrificing efficiency.
- The low-frequency 8" driver's low-mass, carbon fiber diaphragm remains extremely rigid at high power levels, producing a more linear response and lower distortion. The cone is fitted with a durable foam surround and treated to resist moisture. The high-frequency section features a constant directivity horn with a built-in mechanical phase equalizer. The horn is driven by a Ferrofluid® cooled, 1" titanium dome
- The system is nominally crossed over at 1.6kHz by a 12 dB/octave network, which uses markedly lower (than conventional) inductance values in series with the woofer. This design reduces sound delays associated with high inductance values and provides excellent low frequency transient response.
- All components are housed in a vented enclosure formed from semi-expanded polystyrene foam that is extremely strong, lightweight and weather resistant. Threaded metal sockets are molded into the cabinet to facilitate quick, safe deployment of the MR8, as a single unit or in arrays, using specially designed accessory mounting hardware. The speaker system is available in black or white (MR8W).
- The MR8 is a part of Mackie Industrial's Monitor Series, which includes two-way constant directivity, compact speakers in easily installed enclosures.
- This Mackie Industrial product is covered by an exclusive, one-time, NO FAULT repair policy in addition to a five year limited warranty.

Compact Full-Range Speaker



Features

- 8" cast aluminum basket, high-efficiency carbon fiber woofer
- 110° x 90° constant directivity horn with Ferrofluid® cooled, 1" titanium dome tweeter
- Built-in, LICC low inductance passive crossover with high frequency dynamic protection
- Lightweight, UV/weather resistant, high density polystyrene, trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Integrated mounting points for use with optional mounting hardware
- Exclusive Mackie Industrial one-time, NO FAULT repair policy
- Five year limited warranty

- Foreground/Background Music
- Distributed Speech Reinforcement
- AV Production/Playback
- Near-field Monitoring

Specifications

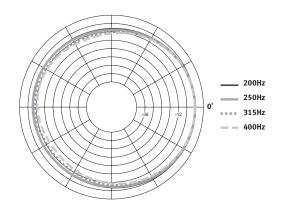
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System	
Freq. Range (–10dB):	50Hz-21kHz
Freq. Response (–3dB):	70Hz-20kHz
Horz. Coverage Angle (-6dB):	110° averaged 800Hz to 16kHz
Vert. Coverage Angle (-6dB):	90° averaged 800Hz to 16kHz
Directivity Factor; Q (DI):	6.5 (8.2) averaged 800Hz to 16kHz
System Sensitivity ¹ :	91 dB, 1W @ 1m
Rated Maximum SPL:	120 dB, @ 1m
System Input Power Rating ² :	300W IEC; 1200W Peak
System Nominal Impedance:	8Ω
Recommended Amplifier ^{3:}	450W
HF Protection:	Dynamic
Crossover:	1.6kHz, 12 dB/octave
Transducers	
Low-Frequency:	8" (200mm) carbon fiber woofer with 1.5" (38mm) coil
High-Frequency: titanium d	Horn loaded 1" (25mm) ome tweeter, Ferrofluid cooled
Physical	
Enclosure:	45° back angles, high density polystyrene
Attachment Inserts: 2 points 3/8	2 points M6 threaded on back " threaded on top and bottom
Color:	Matte black, white (MR8W), scratch resistant paint,
Grille:	Matching perforated steel grille
Input Connectors:	Push connector plate
Dimensions (HxWxD):	16.94" x 11.42" x 10.24" (430mm x 290mm x 260mm)
Net Weight:	21.6 lb. (9.8 kg)
Options	
MA 8-3, MA 8-3W	U-bracket, black (W-white)
MA 8-7	Hardware for suspending

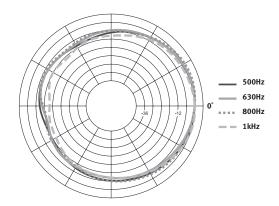
and tilting 4 clustered speakers, black

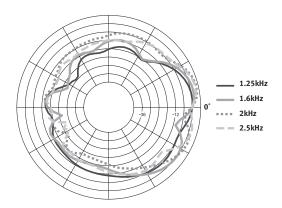


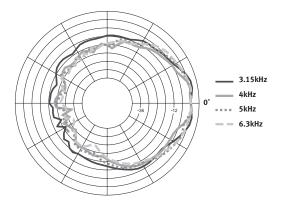
¹ Measured on axis in the far field with 1 watt (2.83V RMS, 8)input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.
² IEC Spectrum, Peak for 2 hours with +4.5 dB crest factor.
³ Recommended Amplifier is a power capability value that should be taken as a guide.

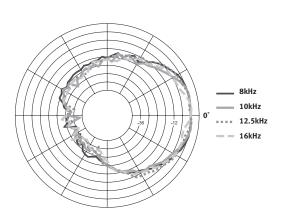
Monitor 8 **Vertical Polars**

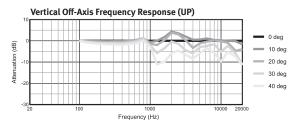


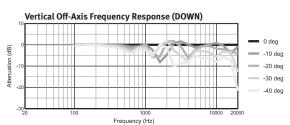






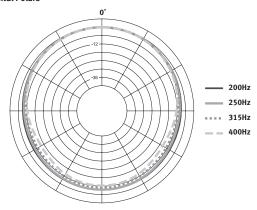


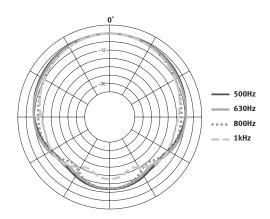


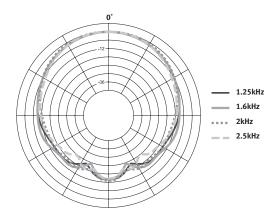


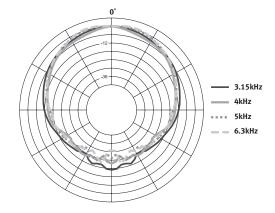


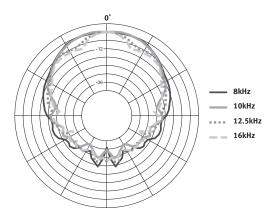
Monitor 8 Horizontal Polars

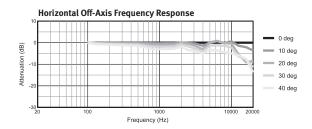


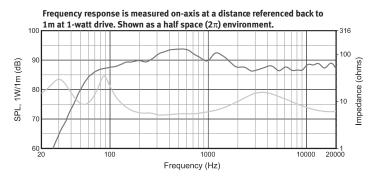


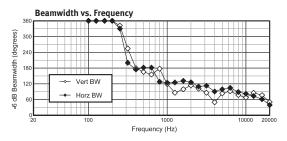


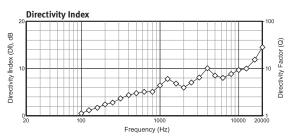


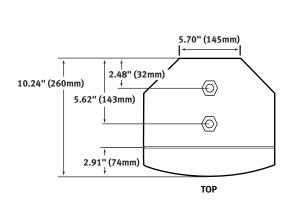


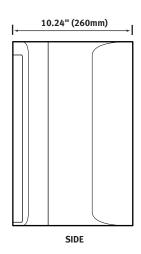


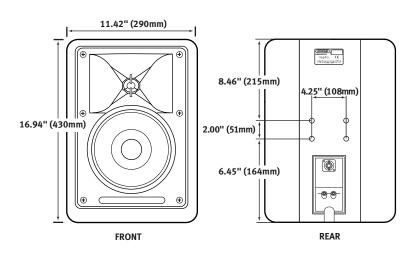














Architects' and Engineers' Specifications

The two-way loudspeaker system shall be self-contained and consist of the following components: (1) a low-frequency driver; (2) a constant directivity horn driven by a dome tweeter driver; (3) a two-way crossover network; (4) a vented enclosure.

The low frequency transducer shall be a cone type loud-speaker having a carbon fiber cone with a diameter of at least 8 inches (200mm). The cone shall be fitted with a high compliance foam surround and treated to resist moisture. It shall have a voice coil that is at least 1.5 inch (38mm) in diameter and present a nominal 16-ohm load impedance to the crossover network. The loudspeaker shall be constructed with a cast aluminum basket.

The high-frequency section shall consist of a constant directivity horn driven by a titanium dome tweeter having a diameter of at least 1 inch (25mm). Its voice coil shall be treated with Ferrofluid[®] to aid in cooling. It shall present a nominal 16-ohm load impedance to the crossover network. The constant directivity horn shall have an integral phase correcting, mechanical equalizer.

The system shall be crossed over by an internal, high-level, passive network having a response of 12 dB/octave and equalization for the constant directivity horn. The nominal crossover frequency shall be 1.6Hz. The low-pass section of the network shall have minimum inductance in series with the low-frequency driver. A dynamic high-frequency protection circuit based on a low-value, low-mass filament resistor shall limit the current available to the high-frequency driver. The crossover network shall present a nominal 8-ohm load impedance to the power amplifier.

The enclosure shall be a vented design. It shall be constructed using high density polystyrene and finished with black (or white), scratch resistant paint. It shall be trapezoidal in shape with 45° angled sides. A full size, detachable, perforated steel grille, finished in black (or white) scratch resistant paint shall be provided. At least 8 reinforced threaded metal sockets (3/8" and M6) for attaching optional mounting hardware shall be provided. The overall dimensions of the enclosure shall not exceed (HxWxD) 16.94" x 11.42" x 10.24" (430mm x 290mm x 260mm). The total weight of the loudspeaker shall not exceed 21.6 lbs. (9.8 kg). Connections to the loudspeaker shall be two color-coded, spring-loaded push connectors.

MACKIE

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(continued Architects' & Engineers' Specs)

The loudspeaker system shall have an overall frequency response of at least 50Hz-21kHz when measured to -10 dB and at least 70Hz-20kHz when measured to -3 dB. It shall have a nominal average coverage pattern of at least 110° horizontal by 90° vertical to -6 dB when measured between 800Hz and 16kHz. Calculated 1W/1m sensitivity shall be at least 91 dB when measured in the far field between 300Hz and 3kHz. Maximum SPL shall be at least 120 dB at 1m. The loudspeaker shall be rated for continuous operation at 300W IEC with 1200W peaks.

The two-way loudspeaker system shall be a model MR8 (MR8W - white) manufactured by Mackie Industrial

Electronic files for this product available at: www.mackieindustrial.com

This Specification Sheet MR8.PDF
Quick-Start Manual MR8QS.PDF

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