



JM-1P : Arrayable Loudspeaker



- Dimensions** 16.78" w x 36.08" h x 28.55" d
(426 mm x 916 mm x 725 mm)
- Weight** 145 lbs (65.77 kg)
- Enclosure** Multi-ply hardwood
- Finish** Black textured
- Protective Grille** Hex-stamped steel with black mesh screen
- Rigging** Aluminum end plates with side links for arraying units; threaded metric M10 points for rigging accessories



JM-1P horizontal array with four loudspeakers, yielding 80 degrees of coverage

The JM-1P self-powered loudspeaker is a high-Q, arrayable loudspeaker suited for a wide range of applications. Employing Meyer Sound's patented REM™ technology and trapezoidal cabinet design, the JM-1P integrates seamlessly in tightly-packed array clusters, where the coverage is proportional to the number of units deployed. The JM-1P can also be used as a high directivity point source loudspeaker, and can be installed either horizontally or vertically. With its scalable coverage and versatile QuickFly® rigging options, the JM-1P loudspeaker can be used for touring, rental, and fixed installations.

Boasting a wide operating frequency range of 55 Hz to 18 kHz, the JM-1P delivers a remarkably smooth

sound with ample low-frequency headroom. Designed and manufactured at Meyer Sound headquarters in Berkeley, California, the JM-1P's drivers include one low-frequency 15-inch long excursion cone driver, and one high-frequency 4-inch compression driver coupled with an REM manifold to an extremely accurate horn. The JM-1P is distinguished by its constant-Q horn that provides a 20-degree horizontal by 60-degree vertical coverage. The unit's consistent polar response and trapezoidal enclosure allows for tightly packed arrays of up to five loudspeakers with up to 100 degrees of coverage (with minimal overlap in high frequencies).

The JM-1P's sophisticated onboard amplification and

processing produces consistent and predictable results in any system design. A proprietary two-channel, class AB/H power amplifier with complementary MOSFET output stages yields a total power output of 1275 W (2550 W peak). Built-in signal processing includes an electronic crossover, driver protection, and correction filters for achieving flat phase and frequency responses. Each amplifier channel has peak and rms limiters that prevent driver overexcursion and regulate voice coil temperatures. Limiting activity is easily monitored with the rear panel limit LEDs.

The optional RMS™ remote monitoring system provides comprehensive monitoring of system parameters on a Windows®-based computer.

FEATURES & BENEFITS

- Tightly controlled coverage yields scalable coverage proportional to the number of arrayed units
- Exceptional size to power ratio
- QuickFly rigging offers the flexibility of both horizontal and vertical arrays
- Consistent and predictable array performance ensures accurate system design

APPLICATIONS

- Theatrical sound reinforcement
- Houses of worship
- Portable and installed AV systems
- Centerfill and sidefill in large-scale systems
- Theme parks, stadiums, concert halls, and nightclubs

PRELIMINARY SPECIFICATIONS

Operating Frequency Range¹	55 Hz – 18 kHz
Maximum Peak SPL²	136 dB
Coverage	20° horizontal by 60° vertical
Transducers	One high-power 15" cone driver with neodymium magnet One 4" compression driver
Audio Connectors	Female XLR input with male XLR loop output
Amplifier	Two-channel complementary MOSFET output stages (class AB/H)
Output Power	1275 W (1 x 1000 W, 1 x 275 W)
Total Output	2550 W peak
THD, IM, TM	<.02%
Load Capacity	2 Ω low channel; 8 Ω high channel
Cooling	QuietCool™ with convection cooling at low to mid audio levels; fan-assisted only at high audio levels
AC Power Connectors	PowerCon® with loop output or VEAM
Voltage Requirements	85–134 V AC, 165–264 V AC

NOTES: 1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Calculated, referred to 1 meter.



JM-1P — 04.202.004.01 C
Copyright © 2009
Meyer Sound Laboratories Inc.
All rights reserved

MEYER SOUND LABORATORIES INC.
2832 San Pablo Avenue
Berkeley, CA 94702

T: +1 510 486.1166
F: +1 510 486.8356

info@meyersound.com
www.meyersound.com