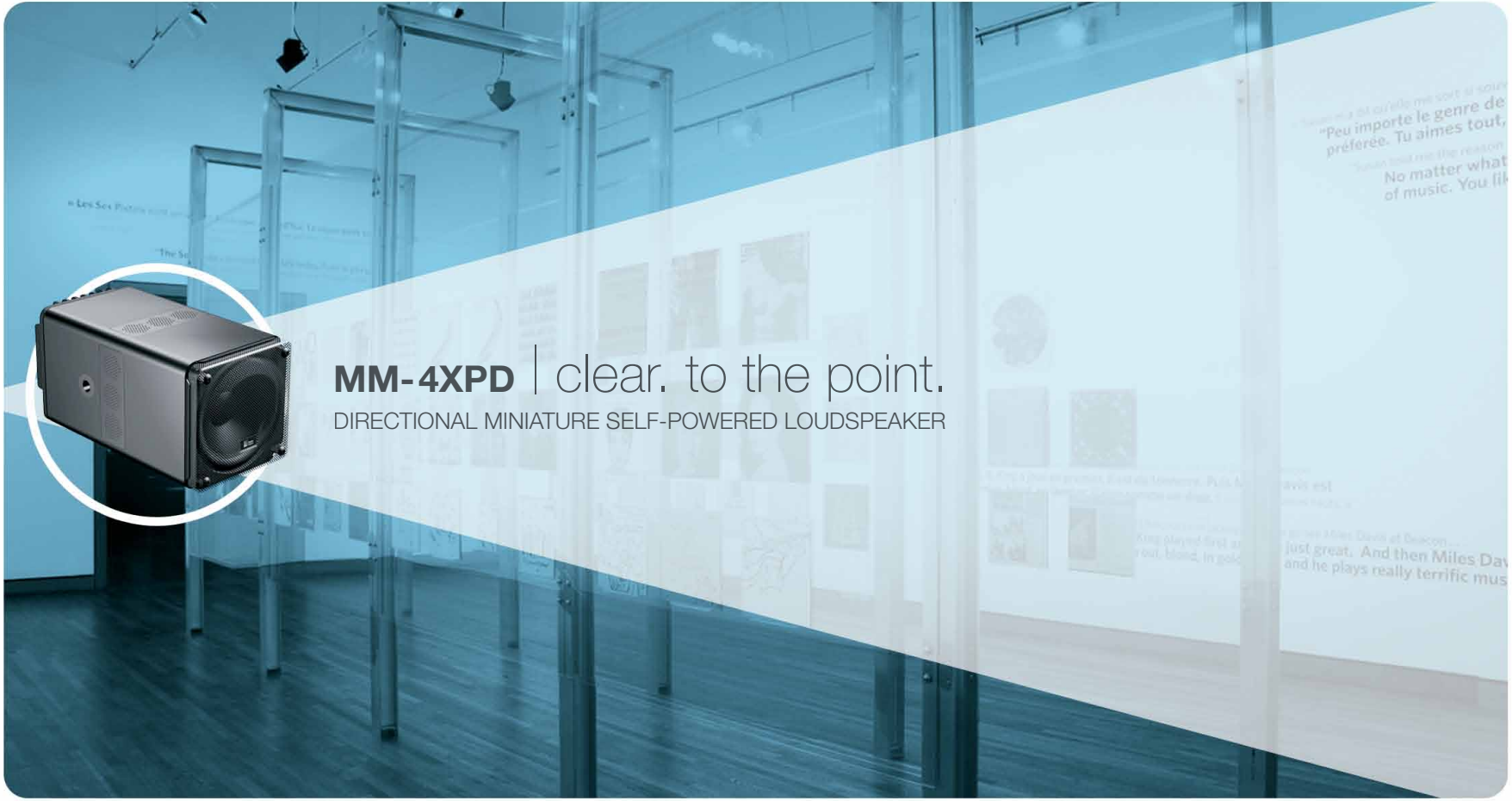


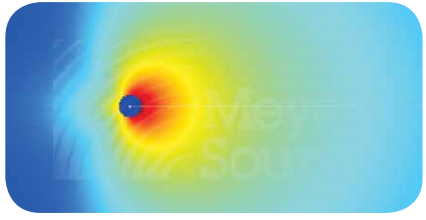
MM-4XPD | clear. to the point.

DIRECTIONAL MINIATURE SELF-POWERED LOUDSPEAKER

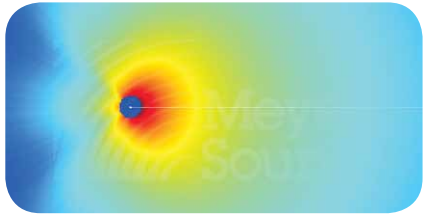
a sound solution for reverberant spaces

INTRODUCING MM-4XPD

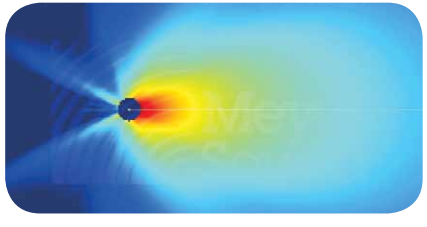
160 Hz



400 Hz



4000 Hz



HIGH PERFORMANCE. LOW PROFILE. SPOT-ON COVERAGE.

Ultra-compact, highly directional, and low-voltage, the MM-4XPD from Meyer Sound marks a welcome breakthrough in high-performance installation loudspeakers. When space is limited and visual aesthetics are critical, the MM-4XPD projects crisp speech or full-bandwidth music into a defined coverage area with a front-to-back ratio that keeps reverberant environments under control. Surprisingly small, the MM-4XPD nevertheless exhibits the same exceptionally flat response and low distortion that distinguish all Meyer Sound self-powered systems.

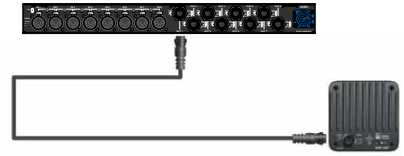
Patent-pending technology creates a hypercardioid pattern using only a single driver. Rear attenuation is on the order of 10 dB at lower frequencies, and a tightly defined high-frequency pattern affords precise imaging.

place sound where you want it; not on the walls or ceilings

MM-4XPD BASICS

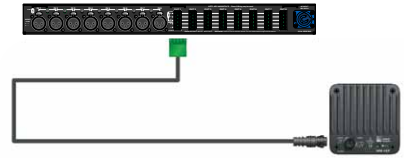
MPS-488HPe

48V power supply with EN3 connectors



MPS-488HPp

48V power supply with Phoenix connectors



Manufactured at Meyer Sound's headquarters in Berkeley, California the MM-4XPD's 4-inch cone transducer produces a maximum peak SPL of 113 dB over an operating frequency range of 120 Hz to 18 kHz. Flat frequency and phase response ensures high speech intelligibility and transparent music reproduction.

The extruded aluminum enclosure acts as a heat sink, dissipating voice coil heat to assure consistent response and long-term reliability.

At only four inches square, the front faceplate presents a minimal "footprint" for inconspicuous installation. Custom colors are also available for a seamless and concealed sound system.

The MM-4XPD employs Meyer Sound's proprietary remote DC powering to afford the sonic benefits of self-powered systems together with streamlined, low-cost installation. An MPS-488HP external power supply provides 48V DC power and balanced audio for up to eight loudspeakers via a single cable terminated with a 5-pin connector, either EN3 or Phoenix.

easy to
spec, install
and tune
MM-4XPD ENVIRONMENTS

BARS AND RESTAURANTS

MUSEUMS AND HALLS

SHOPPING CENTERS

SPECIFIC ADVANTAGES. NEAR-UNIVERSAL APPLICATIONS.

Commercial Installation

In restaurants, bars, clubs and retail spaces, the MM-4XPD targets customer areas with full-bodied foreground music, emotionally exciting the crowd without acoustically exciting a difficult reverberant space.

In museums and trade show booths, the MM-4XPD offers directional control with crisp voice intelligibility and high fidelity music. Sound is contained in the desired space, avoiding annoyance and confusion in adjacent areas.

easy mounting,
streamlined low-cost
installation
MM-4XPD OPTIONS

All our products are available in custom colors

A variety of rigging options to ease installation

Live Sound, Theatre, and Broadcast Production

The MM-4XPD is an ideal-problem solver. Use it as a front-fill loudspeaker, a spot monitor, or an on-stage effects loudspeaker. It's easy to hide, and directional control avoids bleed into nearby microphones.

Multichannel AV Playback

The MM-4XPD is an ideal companion to video systems in corporate AV presentation systems. Directional control contributes to precise imaging, a particularly important feature when multiple loudspeakers in close proximity are reproducing different audio channels.

Conceal It Anywhere

Several flexible installation options are available, including a U-bracket for convenient mounting on walls, ceilings or overhead grids. Custom colors are also available to ensure that the loudspeakers blend into their environment.

King Abdullah University of Science and Technology

MM-4XPD APPLICATION

TAILORING SOUND FOR VIRTUAL REALITY AT KAUST

Meyer Sound miniature self-powered loudspeakers supply highly transparent immersive audio for virtual reality environments at Saudi Arabia's new King Abdullah University of Science and Technology. Prior to installation, the innovative spatial/surround audio systems were prototyped and tested at the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, San Diego.

"We needed to solve two big problems," states Peter Otto, head of Calit2's Sonic Arts Group. "First we needed to control audio leakage from one area to the next in a large open space. We also wanted to control reflections from nearby hard surfaces, including the video displays and a glass window. *The coverage pattern of the MM-4XPD proved to be the perfect solution.*"

The immersive audio experience at KAUST was a collaborative effort of Calit2, Mechdyne Corporation, and the visualization team at KAUST.

Celtic Woman

MM-4XPD APPLICATION

Photo Credit: Dan Hot

UP FRONT FOR CELTIC WOMAN

The Celtic Woman tour presents a unique audio challenge because the show's lissome singers – as many as 13 on stage at once – all use sensitive omnidirectional condenser headset microphones. Monitoring issues were largely controlled with in-ear units hidden underneath the flowing tresses. But when singers wandered near front fills on the stage lip, the sound "backwash" proved problematic. To address the problem, 12 MM-4XPD loudspeakers were deployed as front fills for the 2009 tour.

"In the past I'd have to deal with the feedback and phasing issues through time delay and EQ," says FOH engineer Wayne Pauley. "But now with the MM-4XPDs I get better gain before feedback without having to tweak the sound nearly as much. That's important, because you don't want to compromise sound for top-dollar ticket holders in the front rows."

Sound system provider for the 2009 and 2010 Celtic Woman tours is Blackhawk Audio of White House, Tennessee.

THE MM-4XP FAMILY

EXPERIENCE IT

MM-4XP

self-powered
miniature loudspeaker

MM-4XPV

self-powered miniature
loudspeaker with volume control

MM-4XPD

directional miniature
self-powered loudspeaker

The MM-4XPD is part of Meyer Sound's MM-4XP family of three miniature loudspeakers, which ensure system integrators are equipped for design challenges that demand an extremely compact, yet powerful product. The popular MM-4XP is ideal for fill and spot coverage as well as a range of other install applications, the MM-4XPV features a continuous volume control knob at the top of the unit, while the MM-4XPD adds the advantage of directional hypercardioid pattern.

DIMENSIONS

MM-4XP | MM-4XPV

4.04" w x 4.04" h x 5.72" d9
(102.50 mm x 102.50 mm x 145.38 mm)

MM-4XPD

4.04" w x 4.04" h x 7.72" d
(102.50 mm x 102.50 mm x 196.10 mm)

COVERAGE

MM-4XP | MM-4XPV

80 x 80
(3 kHz -14 kHz +/- 10°)
120 x 120 (below 2 kHz)

MM-4XPD

Low Frequency: Cardioid, with passive (patent pending) pattern control
High Frequency: 80° (3 kHz -14 kHz ±10°)

OPERATING FREQUENCY RANGE

MM-4XP | MM-4XPV | MM-4XPD

120 Hz -18 kHz

MAX PEAK SPL

MM-4XP | MM-4XPV | MM-4XPD

113 dB

WEIGHT

MM-4XP | MM-4XPV

4.2 lbs (1.9 kg)

MM-4XPD

5.2 lbs (2.36 kg)

18.908.075.01B

thinking sound

what will you design?

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