

**Diaphragm type:**

Diamond coated

Element type:

Dynamic

Magnet composition:

Neodymium iron boron

Pick up pattern:

Hypercardioid

Front-to-back rejection:

15 dB (typical)

Impedance:

400 ohms, balanced

Frequency response:

45 Hz to 16 kHz

Sensitivity (at 1 kHz open circuit voltage):

-48 dBV/Pa (1 Pa = 94 dB SPL)

Maximum:

SPL 140 dB

Case (housing):

Die-cast zinc

Finish:

Black rubberized paint

Pop filter:

Dual, integral, open-cell foam

Phasing:

Positive (inward) pressure on diaphragm produces positive voltage at Pin #2

Weight:

9.92 oz. (281 g)

Features:

- Diamond-coated diaphragm
- Neodymium magnetic design
- Hypercardioid polar response
- Smooth, accurate frequency response
- Ultra-high sensitivity

Description

Thank you for choosing the Peavey PVM 46 diamond-coated microphone. The PVM 46 is dynamic hypercardioid and incorporates a neodymium magnet—which has more than twice the sensitivity of conventional microphones—and our diamond-coated diaphragm for flawless transient and frequency response. The hypercardioid polar response is one of the most popular patterns in the industry for use with acoustic instruments. The slightly narrow on-axis polar pickup affords the vocal user less bleed-over from other instruments or vocals. The rear reflection of the PVM 46 is typically 15 dB less sensitive than the on-axis response. This helps reduce feedback from stage monitors and background noise.



SPECIFICATIONS

PVM™46

The Amorphous Diamond-Coated Diaphragm is a patented technology that coats the diaphragm with a super-thin layer of diamond that offers many advantages over conventional laminating or other coating materials. Mainly, it improves the stiffness of the large diaphragm. In return, it keeps the diaphragm super stiff but ultra light, which is needed for extended high frequency response and sharp, crisp highs.

The most significant advances in the microphone industry have been made through the utilization of high-tech polymers. We are proud to say that we are always at the forefront of this technology by utilizing the latest designs. By doing so, we have developed a new shock mounting system that reduces handling noise, cable noise and noise picked up by the mic stand.

By combining the latest in technologies, performance, styling and durability, the Peavey PVM 46 microphone is the professionals choice for the sound reinforcement industry.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The microphone shall be a moving-coil dynamic with a frequency response of 45 Hz to 16 kHz. The microphone shall have a hypercardioid characteristic typically 15 dB down from the front response. The microphone shall have an output power level of -48 dBV per Pascal where 1 Pascal = 94 dB SPL with no load (open circuit).

The microphone shall have a black rubberized finish that can withstand the toughest conditions. The microphone uses a standard mic clip for stand mounting. The connector shall be a three-pin XLR equivalent audio type.

PROXIMITY

Proximity effect is a naturally occurring phenomenon in unidirectional microphones. The effect is to accentuate or boost the low frequency response. This effect is a function of distance from the diaphragm to the source and increases as the diaphragm is moved closer to the source.

2-YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. For copies of this statement, contact Peavey Electronics Corporation, at P.O. Box 2898, Meridian, Mississippi 39301-2898, or go online to www.peavey.com.



Frequency Response

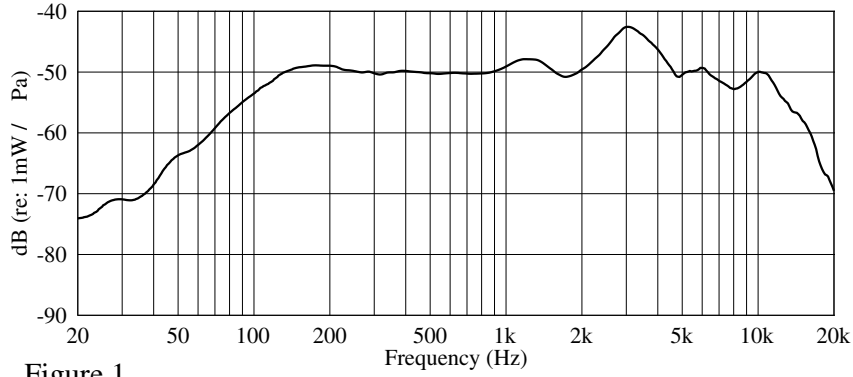


Figure 1

Pickup Pattern (5 dB per division)

- 250 Hz
- 500 Hz
- 1 KHz
- 2 KHz
- 4.4 KHz
- 8 KHz
- 10 KHz
- 12.5 KHz

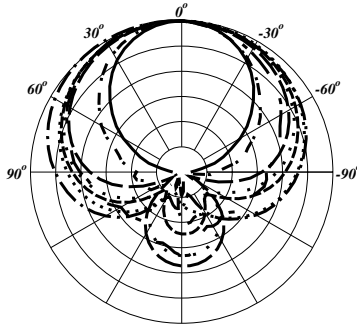


Figure 2

Loudspeaker Placement

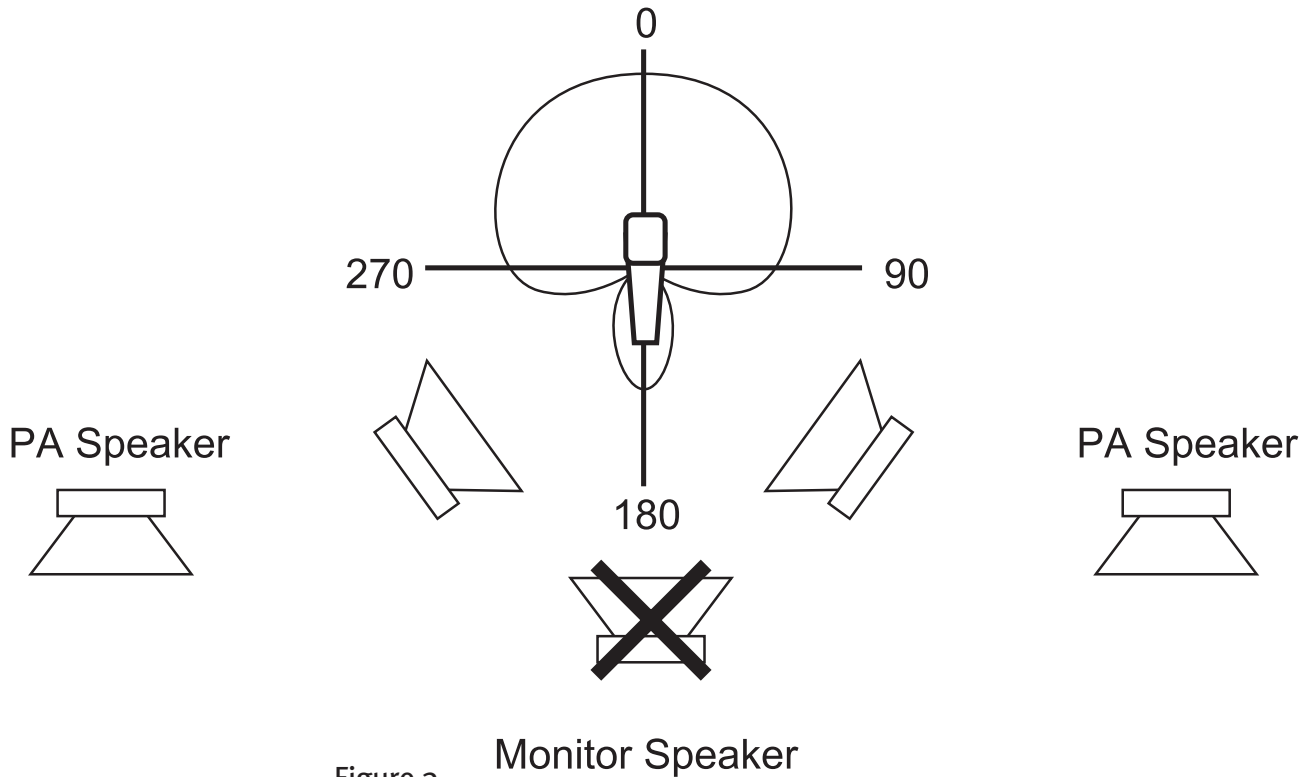


Figure 3



Features and specifications subject to change without notice.



Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005

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