

PEAVEY ELECTRONICS



PVM™ 46 Diamond Series Microphone

SPECIFICATIONS

Diaphragm Type:
Diamond-coated

Element Type:
Dynamic

Magnet Composition:
Neodymium Iron Boron

Polar Pattern:
Hypercardioid

Front-to Back Rejection:
15 dB (typical)

Impedance:
400 ohms, balanced

Frequency Response:
45 Hz to 16 kHz

Sensitivity:
-51 dB (1 Pa = 94 dB SPL)
(Load = 2 K Ω)

Open Circuit Voltage:
-48.8 dB (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 grams)

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 a dynamic hypercardioid incorporating a neodymium magnet that has more than twice the sensitivity of conventional microphones, and with the diamond-coated diaphragm, transient and frequency response become flawless. The hypercardioid polar response is one of the most popular patterns in the industry for micing instruments. The slightly narrower 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 to reduce feedback from stage monitors and background noise. The hypercardioid pattern also makes micing easier when trying to get a good sound on non-electric instruments.

The amorphous diamond-coated diaphragm is 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 microphones 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 industry by searching out and utilizing

the latest achievements in technology. By doing so, we have developed a new shock mounting system. The new shock mount system has reduced 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 will become the choice of users in the sound reinforcement industry.

ARCHITECTURAL AND 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 -51 dB where 1 Pa = 94 dB SPL and a nominal impedance rating of 400 ohms.

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

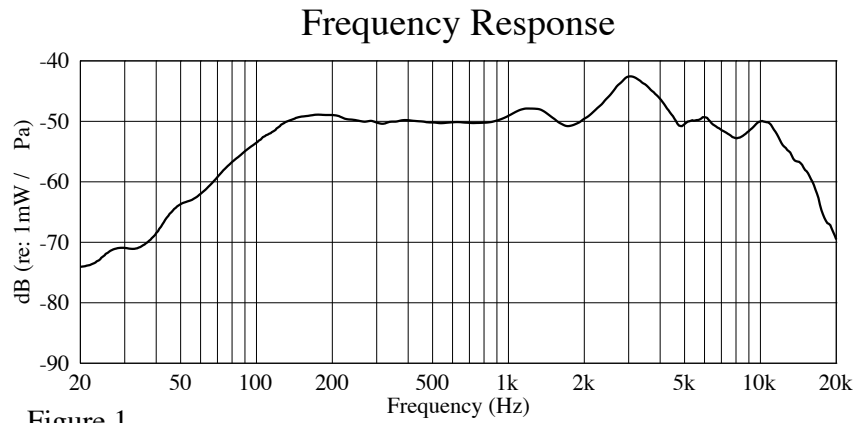
PROXIMITY

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.

TWO YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box Meridian, Mississippi 39301-2898.





Polar pattern (5 dB per division)

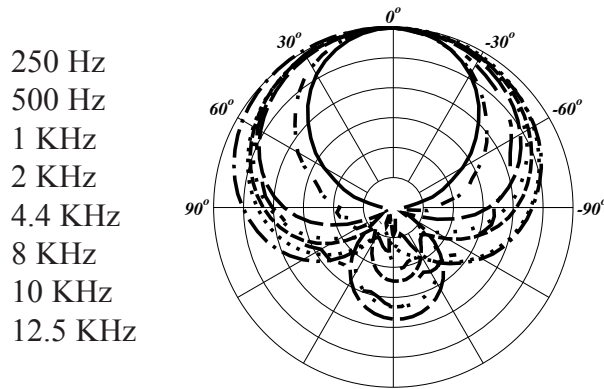


Figure 2

Loudspeaker Placement

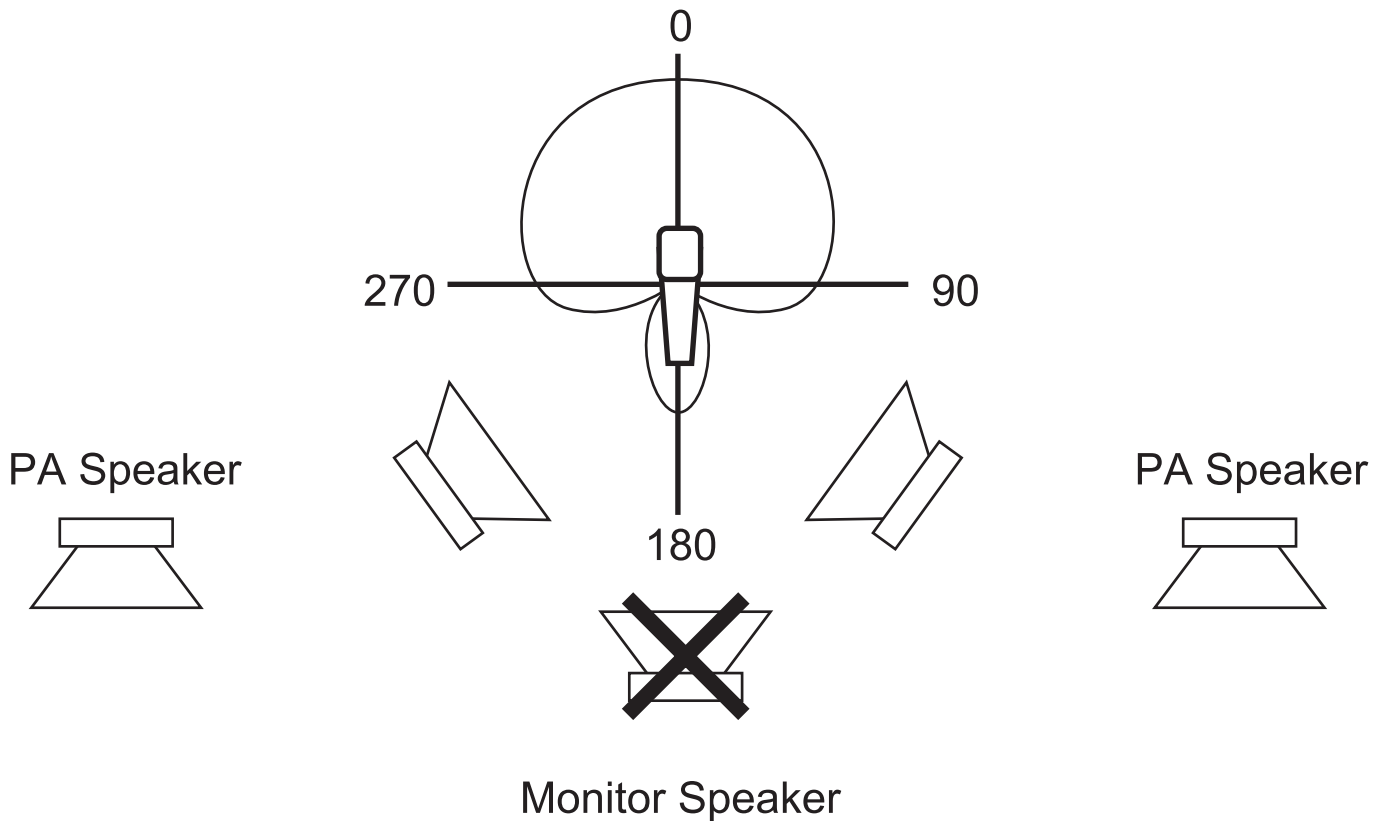


Figure 3



Features and specifications subject to change without notice.

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