

PZM® -6D

The PZM-6D is a Pressure Zone Microphone designed for professional recording, sound reinforcement, teleconferencing and broadcasting. Its low profile, unobtrusive appearance is appreciated in conference rooms, as well as on television, film and video productions. When suspended over an orchestra on a clear panel, the PZM practically disappears. Its miniature, permanently attached cable also reduces visual clutter.

The PZM-6D has a switchable dual frequency response: rising or flat. The "rising" position adds brilliance. This makes it useful whenever a crisp attack is desired, such as on percussion, drums or piano. The user can get a bright sound without boosting high frequencies on the recording console; the benefit is lower noise. The "flat" position provides a smooth, flat high-frequency response for natural sound reproduction.

Capable of withstanding up to 150 dB SPL without distortion, the PZM will never overload in practical use. Its electret condenser capsule provides a wide, smooth frequency response from 20 Hz to 20 kHz. Self noise is low, and sensitivity is high enough to override mixer noise in distant-miking applications.

Like other Pressure Zone Microphones, the 6D utilizes the Pressure Recording Process™ in which a miniature condenser microphone capsule is arranged very close to a sound-reflecting plate or boundary. The capsule is mounted in the "Pressure Zone" just above the boundary, a region where sound coming directly from the sound source combines in phase with sound reflected off the boundary. The benefits are a wide, smooth frequency response free of phase interference, excellent clarity and "reach," a hemispherical polar pattern and uncolored off-axis response.

Operating Instructions

The PZM-6D features self-contained electronics in the attached XLRM connector housing, which allows it to plug directly into a standard 12-48 VDC phantom power supply.

Crown makes an AC-powered model PH-4B supply for powering up to four PZMs. Also available is a single-channel AC/battery supply. Crown model PH-1A. For special applications, you can make your own battery supply as suggested in Fig. 3.

Using 2-conductor shielded microphone cable, plug the microphone into a phantom power supply. Connect the power supply output to a

PRESSURE ZONE MICROPHONE®



Specifications

Type: Pressure Zone Microphone.

Transducer: Electret condenser.

Frequency response: 20 Hz to 20 kHz. See Fig. 1.

Polar pattern: Hemispherical when used on a floor, wall or ceiling.

Open circuit sensitivity: 7 mV/Pa* (-43 dB re 1 volt/Pa).

Power sensitivity: -43 dB re 1 mW/Pa, EA sensitivity: -135 dBm.

Impedance: 240 ohms, balanced. Recommended minimum load impedance 1000 ohms.

Self-Noise: 20 dB equivalent sound pressure level, A-weighted.

S/N ratio: 74 dB at 94 dB SPL.

Maximum Sound Pressure Level: 150 dB SPL at the microphone produces 3% THD.

Polarity: Positive pressure on the diaphragm produces positive voltage on pin 2 with respect to pin 3 of the output connector.

Operating voltage: Phantom power, 12-48 volts DC, positive voltage on pins 2 and 3 with respect to pin 1 of the output connector.

Current drain: 1.1 mA.

Cable: Permanently attached 15-foot (4.58-m) black cable with an XLRM connector.

Switch: Frequency-response select switch for rising or flat response.

Color: Black.

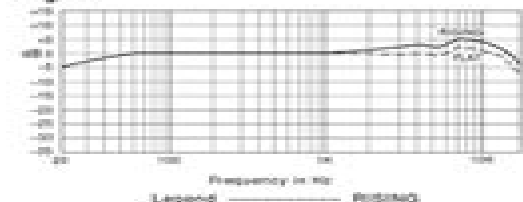
Dimensions: 3-in. x 2.5-in. x .375-in. (7.62-cm x 6.35-cm x .95-cm). See Fig. 2.

Included accessories: PZM windscreen, carrying pouch.

Optional accessories: PH-4B phantom power supply (4 channels, AC powered), PH-1A phantom power supply (1 channel, battery or AC-adaptor powered).

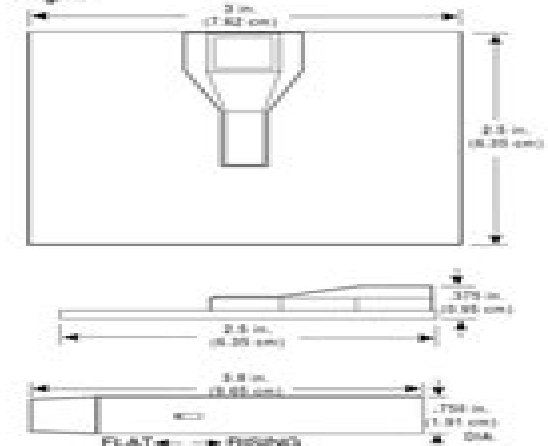
* 1 pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL.

Fig. 1



Low frequency response depends on size of surface.

Fig. 2



Realistic Pzm Microphone Manual

Alec Nisbett



Realistic Pzm Microphone Manual:

Facilities Directory Canada Council. Touring Office, 1988

Studio Sound and Broadcast Engineering, 1991

Practical Guide to Microphone Techniques Testi Creativi, 2024-03-06

Microphone Techniques Practical Guide for Sound Technicians If you dream of becoming an expert in the magical art of microphone techniques this manual is your passport to the fascinating world of sound Microphone Techniques Practical Guide for Sound Technicians is a comprehensive book that guides you through advanced microphone techniques both in live concerts and recording studios What You ll Find in This Manual This book is more than just a guide it s your personal mentor on the journey to success as a sound technician specializing in microphone techniques Every page is filled with detailed instructions practical examples and concrete techniques to help you master this captivating profession Learn from Scratch and Become an Expert Even if you start from scratch this manual provides you with a solid foundation explaining the fundamentals of microphone techniques clearly and accessibly You will learn to use specialized equipment understand microphone characteristics and master positioning techniques for each musical instrument Advanced Techniques with Detailed Examples From recording techniques in acoustically complex environments to the secrets of perfectly positioning microphones for various sound sources this manual guides you through advanced techniques with practical and detailed examples Get hands on and learn winning strategies directly from industry professionals Practical Applications for the Craft This manual goes beyond providing theoretical knowledge Instead it immerses you in the real life experiences of a sound technician offering practical applications to tackle everyday challenges Get ready to handle unwanted feedback during a concert solve interference issues and achieve top notch recordings Essential Accessories and Perfect Setup Discover essential accessories for microphone techniques and learn how to prepare the perfect setup for both a live concert and a studio recording session From choosing cables to managing background noise this manual provides everything you need to achieve extraordinary results The Future of Microphone Techniques Advanced Technologies and Innovative Perspectives Furthermore explore the exciting future of microphone techniques from advanced technologies to innovative perspectives Tune in to what the world of microphone techniques will offer in the coming years and get ready to be part of this evolution If you re ready to turn your passion for sound into an exciting career Microphone Techniques Practical Guide for Sound Technicians is your compass Buy now and start your journey to success in microphone techniques Buy Now and Begin Your Adventure in the World of Microphone Techniques

Microphone Manual David Miles Huber, 1988-01-01

[Practical Recording 1: Microphones](#) Norbert Pawera, 2010-04-06

Whether you re in a recording studio setting up onstage or recording an outside broadcast choosing the right mic for the job is only half the battle You ve still got to make sure it s the right height positioned correctly and connected up properly And that s before anyone makes a sound Fortunately help is at hand with *Practical Recording 1 Microphones* a complete blow by blow study of everything to do with capturing the ideal sound Covering all aspects of using mics in the studio and live

situations from spot miking individual instruments to capturing entire orchestras and with an exhaustive breakdown of the choicest models currently on the market Practical Recording 1 Microphones spares performers and engineers alike a whole lot of time and frustration *The Use of Microphones* Alec Nisbett, 1993 **Stereo Microphone Techniques** Bruce Bartlett, 1991 This is the first comprehensive handbook devoted exclusively to stereo miking The many illustrations and clear organization easily explain the theory behind stereo miking methods and describe specific techniques Describes how to position the correct microphones in the proper locations in order to record optimal quality stereo sound Altogether a most comprehensive well researched and well documented book Adrian Bishop Laggett Line Up April 1992 Line Up April 1992

Reviewing **Realistic Pzm Microphone Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Realistic Pzm Microphone Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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