

SUPPORT AND WARRANTY

PRYME Radio Products warrants this product against defects in materials or workmanship for a period of one year from the date of retail purchase. PRYME will repair or replace a defective unit, at our option, without charge for parts or labor. The limited warranty is extended only to the original purchaser and is valid only to consumers in the United States and Canada. It does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning, or other incidences of excessive voltage, or any tampering or repairs by other than a PRYME authorized repair facility. It does not cover replacement of consumable parts, transportation costs, or damage in transit. Repair or replacement under the terms of this warranty does not extend the terms of this warranty. This warranty can only be modified by an officer of PRYME Radio Products, and then only in writing. Should this product prove defective in workmanship or material, the consumer's sole remedies shall be such repair or replacement as provided by the terms of this warranty.

Under no circumstances shall PRYME Radio Products be liable for any loss or damage, direct, consequential, or incidental, arising out of the use of or inability to use this product. Some states do not allow limitations on how long an implied warranty lasts or the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which may vary, from state to state.

For support or warranty service on your PRYME product, contact us at 1-800-666-2654 or visit us on the web at www.PRYME.com.

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PRYME®

PRYME NoiseMaster™ SPM-NM50 SERIES

Advanced Intelligent Active Noise Canceling Remote Speaker Microphone

For use with portable two-way radios

The PRYME NoiseMaster™ SPM-NM50 microphone provides the user with clear voice communications even in high-noise environments using advanced intelligent active noise cancellation technology to filter out and remove background noise.



Version: 1.00 NOVEMBER 2023

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Model No. SPM-NM50
 Made in Taiwan

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SPECIFICATIONS

Power from Radio:	5V-9V
Power consumption:	25mA during transmit
Speaker Size:	40mm
Speaker Impedance:	8Ω±15% at 1,000Hz
Power Rating:	1.5 Watts
Output SPL:	108dB @10cm maximum
Distortion:	5% Maximum at 1KHz 1mW
Frequency Response:	100-10,000 Hz
Noise Canceling:	Advanced AI deep learning
Microphone Type:	Omni-directional electret condenser
Mic Impedance:	2.2K ohms
Mic Sensitivity:	-38±3dB at 1KHz Vs=2.0V,RL=2.2KΩ(0dB=1V/Pa) (-60±4dB for 0dB=1V/μbar)
Standard operating voltage:	2V
Max. operating voltage:	<10V
Signal/Noise Ratio:	>50dB
Frequency Response:	100-10,000 Hz
Storage Temperature:	-30° - +80°
Operating Temperature:	-20° - +60°

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Storage Temperature:	-30° - +80°
Operating Temperature:	-20° - +60°

Controls and Connection



Connecting and Using the Microphone

To install the remote microphone on the radio:

1. Power the two-way radio off.
2. Remove any covers from the radio accessory connector.
3. Attach the radio connector of the remote microphone to the radio accessory connector.
4. Tighten any mounting thumbscrews or fasten any latch mechanisms for the connector, if required.

To use the remote microphone:

1. Power the two-way radio on.
2. Signals received by the radio should be heard through the speaker of remote microphone. Adjust the volume control on the radio to set your preferred listening level for the audio.
3. To transmit, press and hold the PTT button on the remote microphone.
4. While holding the PTT, speak into the microphone slowly and clearly in a normal tone of voice.

For best results, especially in noisy environments, hold the microphone directly in front of your mouth at a very close distance, no further than 1 inch (3 centimeters).



- DO NOT side-talk into the microphone.
- DO NOT hold the microphone more than 2 inches (5 cm) away from your face.

CAUTION: Holding the microphone too far away from your mouth or speaking indirectly into the microphone can result in low or distorted transmissions or increased background noise, which can make it difficult for the receiving party to understand you.

How AI Noise Canceling Technology Works

Our AI Noise-Canceling technology employs a dedicated processor equipped with intelligent AI profiles, capable of discerning human speech and filtering out background noise. Unlike traditional DSP-based Noise Cancellation, our innovative approach eliminates the need for a secondary microphone element, as the system continuously listens to the ambient noise, adapting its cancellation in near real-time. With over 500 million samples, the technology excels at identifying and reducing various background noises, ensuring crystal-clear communication by enhancing vocal harmonics. This cutting-edge solution is designed to remove all noise types, allowing users to enjoy pristine sound quality in diverse environments, from bustling offices to noisy industrial settings. The AI's ability to dynamically adapt to changing ambient sounds sets our technology apart, making it highly effective and versatile for a seamless communication experience.

Optional Earphones

Note: PRYME EH-1389SC model shown. Earphone sold separately.

Although the remote microphone has a built-in speaker for listening to received calls, some users may prefer to use a listen only earphone for enhanced privacy. The accessory jack on the remote microphone will accept any mono earphone with a 3.5 mm audio plug. When an earphone is used, the front-firing speaker is disabled.

Model	Style	Cable Length/Type	Connector
EH-389SC	Rubber ear-hook	15" coiled	3.5 mm right angle
EH-389XC	Rubber ear-hook	25" coiled	3.5 mm right angle
EH-1289SC	Plastic D-ring	15" coiled	3.5 mm right angle
EH-1289XC	Plastic D-ring	25" coiled	3.5 mm right angle
EH-1389SC	Acoustic tube	15" coiled	3.5 mm right angle
EH-1389XC	Acoustic tube	30" coiled	3.5 mm right angle
EH-1399X	Acoustic tube	30" coiled	3.5 mm straight
EH-GH89SC	G-hook (swivel)	10" coiled	3.5 mm right angle

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