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Model SM58® User Guide



APPLICATION	SUGGESTED MICROPHONE PLACEMENT	STONE QUALITY
Lead & Backup	Use two SM58 (or 57) in a cardioid pattern, one in front of the performer, one in back to monitor sound from other sources.	Optimal sound, reduced feedback.
Speech	Position SM58 (or 57) 10-15 cm from mouth, just above nose level.	Natural sound, reduced feedback.
	Position SM58 (or 57) 15-20 cm from mouth, slightly off to one side.	Natural sound, reduced feedback.
	10-15 cm (4-6 in) away.	Throat, direct sound.

GENERAL
The Shure SM58® is a professional cardioid dynamic vocal microphone for professional vocal use in sound reinforcement and studio recording. A highly effective, built-in, optional filter minimizes wind and breath "pop" noise. A cardioid pickup pattern isolates the voice and reduces unwanted background noise. The SM58 has a balanced vocal response for a sound which is a vocal anchor. Rugged construction, a proven shock mount system, and a steel mesh grille ensure that even with rough handling, the SM58 will perform consistently. Outdoors or indoors, singing or speech, the SM58 is the overwhelming choice of professional worldwide.

- Features**
- Frequency response tailored for vocals, with brightened midrange and bass roll-off
 - Uniform cardioid pickup pattern isolates the main sound source and minimizes background noise
 - Pneumatic shock-mount system cuts down handling noise
 - Effective built-in optional wind and pop filter
 - Supplied with break-resistant stand adapter which rotates 180°
 - Legendary Shure quality, dependability, and reliability

Variations

SM58
SM58S (with On/Off Switch)

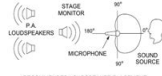
PROXIMITY EFFECT

When the sound source is less than 6 cm (2 1/4 in.) from the microphone, the microphone has bass response (by 6 to 12 dB at 100 Hz), creating a warmer and richer bass sound than when further away. This effect, known as proximity effect, happens only with unidirectional dynamic microphones like the SM58. The SM58 has frequency roll-off provides greater control, allowing the user to take full advantage of proximity effect.

APPLICATIONS AND PLACEMENT

The SM58 is ideal for close-up work and can be held in the hand or mounted on a stand. Some of the most common applications and placement techniques are listed in the following table. Keep in mind that microphone technique is largely a matter of personal taste—there is no one "correct" microphone position.

STAGE MONITOR & P.A. LOUDSPEAKER PLACEMENT
Place the stage monitor directly behind the microphone (see Figure 1). Locate the P.A. loudspeakers so that they point away from the rear of the microphone. With the speakers located in these positions, the possibility of feedback is greatly reduced. Always check the stage setup before a performance to ensure optimal placement of microphone and monitors.



RECOMMENDED LOUDSPEAKER PLACEMENT
FIGURE 1

GENERAL RULES FOR MICROPHONE USE

1. Aim the microphone toward the desired sound source and away from unwanted sources.
2. Locate the microphone as close as practical to the desired sound source.
3. Move close to the microphone for extra bass response.
4. Use only one microphone per sound source.
5. Locate microphones at least three times as far from other microphones as from the sound source.
6. Use as few microphones as practical.
7. Place microphones far from sound-reflecting surfaces.
8. Add a windscreen when using the microphone outdoors, for singing speech, or vocals.
9. Avoid excessive handling to minimize mechanical noise.

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