



MODEL SM58™ UNIDIRECTIONAL DYNAMIC MICROPHONE

The Shure SM58™ is a unidirectional (cardioid) dynamic vocal microphone designed for professional vocal use in sound reinforcement and studio recording. A highly effective, built-in, spherical filter minimizes wind and breath "pop" noise. A cardioid pickup pattern isolates the main sound source while minimizing unwanted background noise. The SM58 has a tailored vocal response for a sound which is a world standard. 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 professionals 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 spherical wind and pop filter
- Supplied with break-resistant stand adapter which rotates 180°
- Legendary Shure quality, ruggedness, and reliability

Variations

- SM58
- SM58S (With On/Off Switch)

PROXIMITY EFFECT

When the sound source is less than 6 cm (2½ in.) from the microphone, the microphone boosts bass frequencies (by 6 to 20 dB at 100 Hz), creating a warmer and richer bass sound than when farther away. This effect, known as proximity effect, happens only in unidirectional dynamic microphones like the SM58. The SM58 low-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 vocals 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.

APPLICATION	SUGGESTED MICROPHONE PLACEMENT	TONE QUALITY
Lead & Backup vocals	Lips less than 150 mm (6 in.) away or touching the windscreen, on axis to microphone.	Robust sound, emphasized bass, maximum isolation from other sources.
Speech	150 mm (6 in.) to 300 mm (12 in.) away from mouth, just above nose height.	Natural sound, reduced bass.
	200 mm (8 in.) to 300 mm (12 in.) away from mouth, slightly off to one side.	Natural sound, reduced bass, and minimal "s" sounds.
	1 m (3 ft) to 2 m (6 ft) away.	Thinner, distant sound, ambience.

STAGE MONITOR & P.A. LOUSPEAKER 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 optimum placement of microphone and monitors.



RECOMMENDED LOUSPEAKER 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. Work 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 dialogue speech, or vocals.
9. Avoid excessive handling to minimize mechanical noise.

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