

**SHURE**<sup>®</sup>  
LEGENDARY  
PERFORMANCE™

Wired Microphones  
SM58 | SM58S (With On/Off Switch)

# SM58<sup>®</sup>

UNIDIRECTIONAL DYNAMIC MICROPHONE

指向性动圈话筒



# SM58

The Shure SM58® is a unidirectional (cardioid) dynamic vocal microphone 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

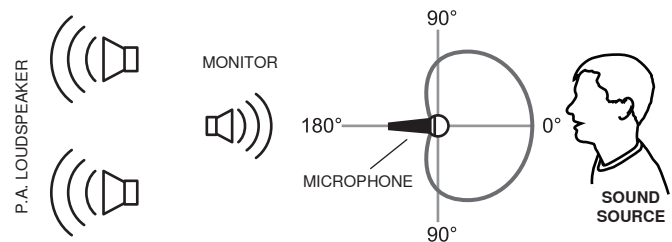
- Performance tested, industry standard
- Uniform cardioid pick-up pattern for maximum gain before feedback and excellent rejection of off axis sound
- Tailored frequency response specifically shaped for vocals, with brightened midrange and bass roll off to control proximity effect
- Advanced pneumatic shock mount system that minimizes transmission of mechanical noise and vibration
- Steel mesh grille and enamel coated metal construction resist wear and abuse
- Effective built in pop-filter reduces undesirable wind and breathe noise
- Furnished with zippered storage bag and break resistant stand adapter
- On/Off switch (SM58S only)
- Extremely durable under the heaviest use
- Shure quality, ruggedness and reliability

## APPLICATIONS AND PLACEMENT

### General Rules for Use

- Aim the microphone toward the desired sound source (such as the talker, singer, or instrument) and away from unwanted sources.
- Place the microphone as close as practical to the desired sound source.
- Work close to the microphone for extra bass response.
- Use only one microphone to pick up a single sound source.
- Use the fewest number of microphones as practical.
- Keep the distance between microphones at least three times the distance from each microphone to its source.
- Place microphones as far as possible from reflective surfaces.
- Add a windscreen when using the microphone outdoors.
- Avoid excessive handling to minimize pickup of mechanical noise and vibration.
- Do not cover any part of the microphone grille with your hand, as this will adversely affect microphone performance.

### RECOMMENDED LOUDSPEAKER LOCATIONS FOR CARDIOID MICROPHONES



### Avoiding Pickup of Unwanted Sound Sources

Place the microphone so that unwanted sound sources, such as monitors and loudspeakers, are directly behind it. To minimize feedback and ensure optimum rejection of unwanted sound, always test microphone placement before a performance.

The following table lists the most common applications and placement techniques. 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
Vocals	Lips less than 15 cm (6 in.) away or touching the windscreen, on axis to microphone.	Robust sound, emphasized bass, maximum isolation from other sources.
	15 to 60 cm (6 in. to 2 ft.) away from mouth, just above nose height.	Natural sound, reduced bass.
	20 to 60 cm (8 in. to 2 ft.) away from mouth, slightly off to one side.	Natural sound, reduced bass and minimal “s” sounds.
	90 cm to 1.8 m (3 to 6 ft.) away.	Thinner, distant sound; noticeable levels of ambient noise.

### Proximity Effect

Unidirectional microphones such as the SM58 progressively boost bass frequencies by 6 to 10 dB below 100 Hz when the microphone is at a distance of about 6 mm (1/4 in.) from the sound source. This phenomenon, known as proximity effect, can be used to create a warmer, more powerful sound. To prevent explosive low frequency sound during close-up use, the SM58 bass response gradually rolls off. This provides greater control and helps the user take advantage of proximity effect.

## SPECIFICATIONS

Type	Dynamic (moving coil)
Frequency Response	50 to 15,000 Hz
Polar Pattern	Cardioid
Output Impedance	EIA rated at 150Ω (300Ω actual)
Sensitivity (at 1 kHz, open circuit voltage)	-54.5 dBV/Pa (1.85 mV) 1 Pascal=94 dB SPL
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
Weight	Net: 0.298 kg (0.656 lbs)
Connector	Three-pin professional audio (XLR), male
Case	Dark gray, enamel-painted, die cast metal; matte-finished, silver colored, spherical steel mesh grille

## CERTIFICATION

Eligible to bear CE Marking. Conforms to European EMC Directive 89/336/EEC. Meets applicable tests and performance criteria in European Standard EN55103 (1996) parts 1 and 2, for residential (E1) and light industrial (E2) environments.

## ACCESSORIES AND PARTS

### Furnished Accessories

Swivel Stand Adapter	A25D
Storage Bag	95C2313

### Optional Accessories

Windscreen (6 colors available)	A58WS
Desk Stand	S37A, S39A
Shock Stopper™ Isolation Mount	A55M
Dual Mount	A26M
7.6 m (25 ft.) Cable	C25E
TRIPLE-FLEX™ Cable and Plug 7.6 m (25 ft.)	C25F

### Replacement Parts

Cartridge	R59
Screen and Grille Assembly	RK143G

# SM58

舒尔SM58®指向性人声话筒在专业演唱扩声和录音室录音方面表现卓越。内建高效球形滤网能最大限度减少风声和呼吸噪声。话筒具有心形指向性，非常有效地降低了环境噪声对于拾取声源的影响。SM58经修正的适合人声的频响已经成为世界标准。坚固的构造，有效的防震系统和钢制网罩确保了SM58在任何情况下都能表现一致。无论户外户内，无论演唱还是演讲，SM58都是专业人士独一无二的选择。

## 特性

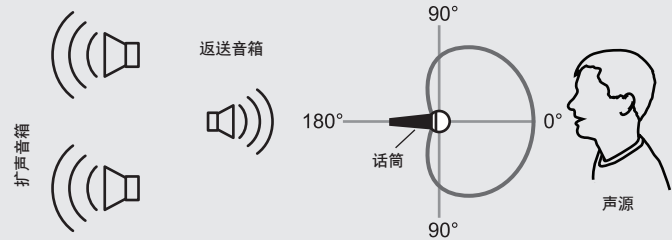
- 中频明亮、低频滚降的修正频率响应适合人声拾音
- 具有良好一致性的心形指向性，能够有效抑制环境噪声对主声源的影响
- 内置充气减震系统，降低手持噪音
- 内建高效球形滤网滤除风声和噪声
- 配有可180度旋转的防摔话筒夹
- 传奇舒尔品质，坚固，可靠

## 应用和摆位

### 一般使用规则

- 将话筒对准所录制的声源（例如谈话者、唱歌者或乐器），远离其他声源。
- 尽可能靠近所录制声源摆放。
- 如果想获得更多的低频响应，可将话筒进一步靠近音源。
- 只使用一个话筒来拾取单个声源。
- 尽可能减少使用话筒的数量。
- 保持话筒之间的距离，使其至少三倍于每个话筒与其声源之间的距离。
- 将话筒放置在尽可能远离反射表面的地方。
- 在户外使用话筒时，加一个防风罩。
- 避免过多触摸，以便将机械噪声的拾取和震动降低到最低水平。
- 切勿用手遮盖住话筒滤网的任何部位，因为这会影响话筒的性能。

### 推荐的音箱位置



### 避免拾取干扰声源

正确放置话筒，使类似返听音箱和扩声音箱等干扰声源位于话筒拾音方向的反方向。要减少反馈和确保干扰声源的最佳隔离，务必在演出前测试话筒摆位。

下表列出了一些常见的应用场合及摆位技巧。请注意，话筒的放置方式在很大程度上取决于个人喜好—“正确的”话筒拾音位置绝不止一个。

应用	建议话筒放置的位置	音色
人声	嘴与防风罩的距离少于 15 厘米 (6 英寸)，或轻触防尘罩，在话筒轴线上。	饱满、加重低音、最大程度隔离其它声源。
	与嘴的距离为 15 至 60 厘米 (6 英寸至 2 英尺)，刚好在鼻子平面上面。	自然，减弱低音。
	与嘴的距离为 20 至 60 厘米 (8 英寸至 2 英尺)，稍微偏向一侧。	自然、减弱低音和“s”声。
	距离 90 厘米至 1.8 米 (3 至 6 英尺)。	薄的远距离声音；可听见不同程度的环境声。

### 近讲效应

当话筒与声源之间的距离在6毫米（1/4英寸）左右时，像SM58这样的指向性的话筒会将100HZ以下的低频提升6-10dB,这个现象被称之为“近讲效应”，在录音时，常会被用来创造一种更加温暖，更加厚重的音色效果。用户可以通过SM58的低频滚降特性来最大限度的控制、利用近讲效应。

## 规格

类型	动圈
频率响应	50 至 15,000 Hz
指向性图样	心形
输出阻抗	EIA 额定值 150Ω (300Ω 实际)
灵敏度 (1 kHz 时, 开路电压)	-54.5 dBV/Pa (1.85 mV) 1 Pa=94 dB SPL
极性	作用在话筒振膜上的正压, 在输出接口的针脚2上产生相对于针脚3的正电压
重量	净重: 0.298 公斤 (0.656 磅)
接头	三针卡侬公头 (XLR)
外壳	压铸金属材质, 涂深灰瓷漆, 银色哑光球形钢罩

## 认证

可标注CE标志。符合欧洲EMC指令89/336/EEC。符合欧洲标准EN55103 (1996) 第1部分和第2部分当中的应用测试和性能标准。用于住宅环境 (E1) 和轻工业环境 (E2)。

## 附件和替换备件

### 提供的附件

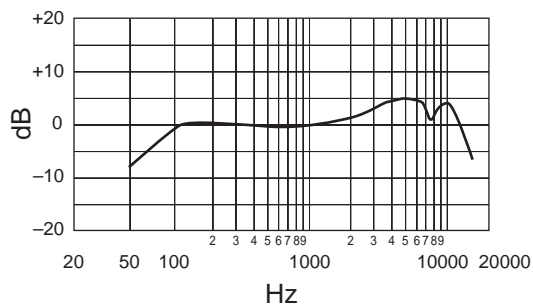
话筒支架转接器	A25D
储存袋	95C2313

### 可选配附件

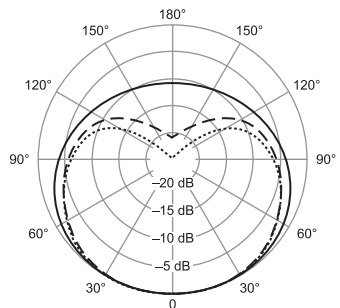
防风罩 (六种颜色可供选择)	A58WS
桌面话筒架	S37A, S39A
Shock Stopper™ 减震架	A55M
双话筒架	A26M
话筒线, 7.6米 (25英尺)	C25E
TRIPLE-FLEX™ 话筒线, 7.6米 (25英尺)	C25F

### 替换备件

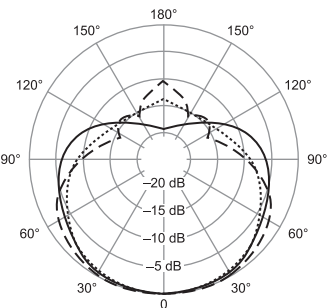
话筒头	R59
话筒头罩	RK143G



TYPICAL FREQUENCY RESPONSE  
典型频率响应

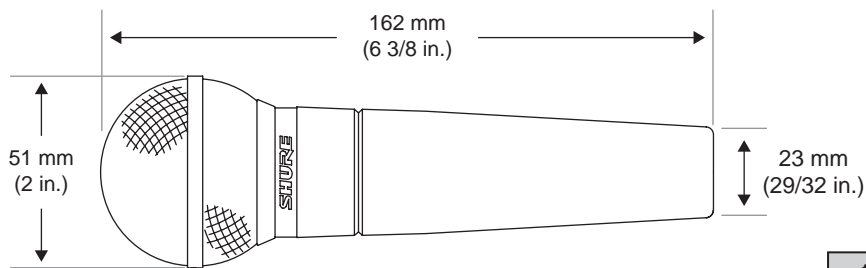


—— 125 Hz  
- - - - 500 Hz  
- · - · 1000 Hz



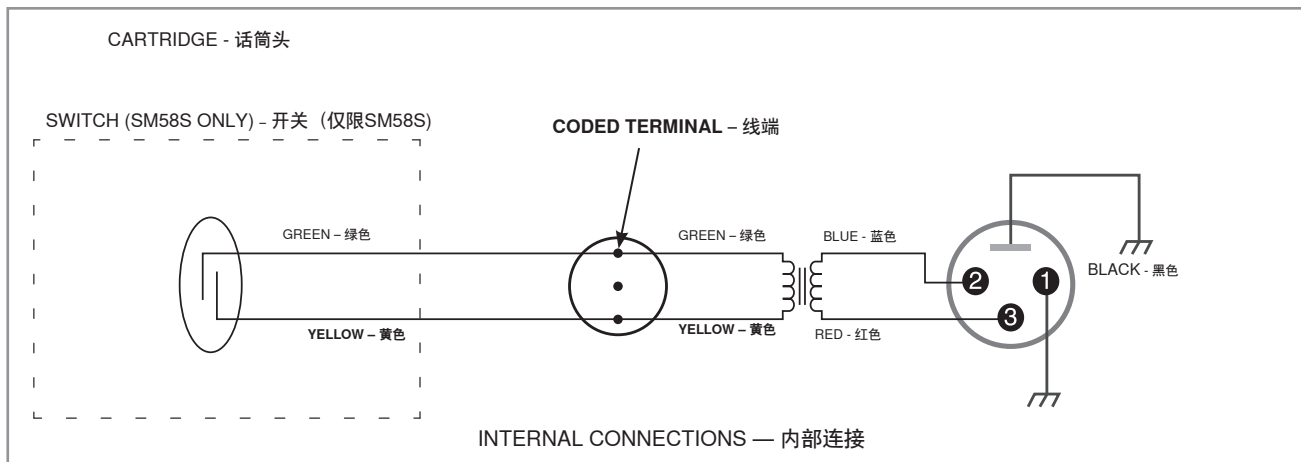
—— 2000 Hz  
- · - · 4000 Hz  
- - - - 8000 Hz

TYPICAL POLAR PATTERNS  
典型极性图样



OVERALL DIMENSIONS - 尺寸

1:2



# **SHURE**<sup>®</sup>

SHURE Incorporated <http://www.shure.com>  
United States, Canada, Latin America, Caribbean:  
5800 W. Touhy Avenue, Niles, IL 60714-4608, U.S.A.  
Phone: 847-600-2000  
U.S. Fax: 847-600-1212  
Intl Fax: 847-600-6446  
Europe, Middle East, Africa:  
Shure Europe GmbH, Phone: 49-7131-72140  
Fax: 49-7131-721414  
Asia, Pacific:  
Shure Asia Limited, Phone: 852-2893-4290  
Fax: 852-2893-4055

SHURE Incorporated <http://www.shure.com>  
États-Unis, Canada, Amérique latine, Caraïbes:  
5800 W. Touhy Avenue, Niles, IL 60714-4608, U.S.A.  
Téléphone : 847-600-2000  
Télécopie aux États-Unis : 847-600-1212  
Télécopie internationale : 847-600-6446  
Europe, Moyen-Orient, Afrique:  
Shure Europe GmbH, Téléphone : 49-7131-72140  
Télécopie : 49-7131-721414  
Asie, Pacifique:  
Shure Asia Limited, Téléphone : 852-2893-4290  
Télécopie : 852-2893-4055

SHURE Incorporated <http://www.shure.com>  
Estados Unidos, Canadá, Latinoamérica, Caribe:  
5800 W. Touhy Avenue, Niles, IL 60714-4608, EE.UU.  
Teléfono: 847-600-2000 (dentro de los EE.UU.)  
Fax: 847-600-1212  
Fax internacional: 847-600-6446  
Europa, Medio Oriente, Africa:  
Shure Europe GmbH, teléfono: 49-7131-72140  
Fax: 49-7131-721414  
Asia, Pacífico:  
Shure Asia Limited, teléfono: 852-2893-4290  
Fax: 852-2893-4055

SHURE Incorporated <http://www.shure.com>  
Stati Uniti, Canada, America latina, Caraibi:  
5800 W. Touhy Avenue, Niles, IL 60714-4608, U.S.A.  
Numero telefonico: 847-600-2000  
Fax U.S.A.: 847-600-1212  
Fax internazionale: 847-600-6446  
Europa, Medio Oriente, Africa:  
Shure Europe GmbH, numero telefonico: 49-7131-72140  
Fax: 49-7131-721414  
Asia, Pacifico:  
Shure Asia Limited, numero telefonico: 852-2893-4290  
Fax: 852-2893-4055