



 **SHURE**
professional microphones

ABOUT SHURE PROFESSIONAL MICROPHONES

The microphones featured in this catalog were engineered specifically for professional use in broadcasting, recording, motion picture and highest quality sound reinforcement systems. You'll find a complete line of microphones, each with a distinctive sound or physical characteristic that optimizes it for particular applications, voices, or effects. For outstanding performance in applications as diverse as live entertainment, radio and TV, studio recording, hotel and auditorium sound reinforcement and legislative chambers, professionals choose, and use, Shure.

Shure Professional Microphones are recognized worldwide for their superior quality and reliability. As a result of advanced technology and design, they are capable of withstanding the kind of abuse associated with constant and heavy service, adverse humidity and temperature conditions, and accidental mishandling. In fact, all Shure hand-held microphones, (including the SM81 and SM85 Condenser Microphones) are capable of being dropped six feet onto a hardwood floor without performance degradation or structural damage.

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1. One of the several anechoic chambers used by Shure engineers to measure output level and frequency response of microphones.



2. On stage, in the studio or in their mobile studio, the Rolling Stones rely on Shure microphones for the unmatched sound reinforcement and recording perfection they insist upon.



5-8 Vocal superstars share the stage with their Shure Microphones
5—Sammy Davis Jr.,
6—Sha Na Na
7—Dolly Parton and
8—Ronnie Milsap



3. David Hewitt, Director of Remote Recording for Record Plant Studios, N.Y.C.: "We count on Shure to make certain our remote facilities give dependability, high performance. With the kind of custom-designed, state-of-the-art equipment we've got in our vans, we wouldn't settle for less-than-the-best microphone on stage."

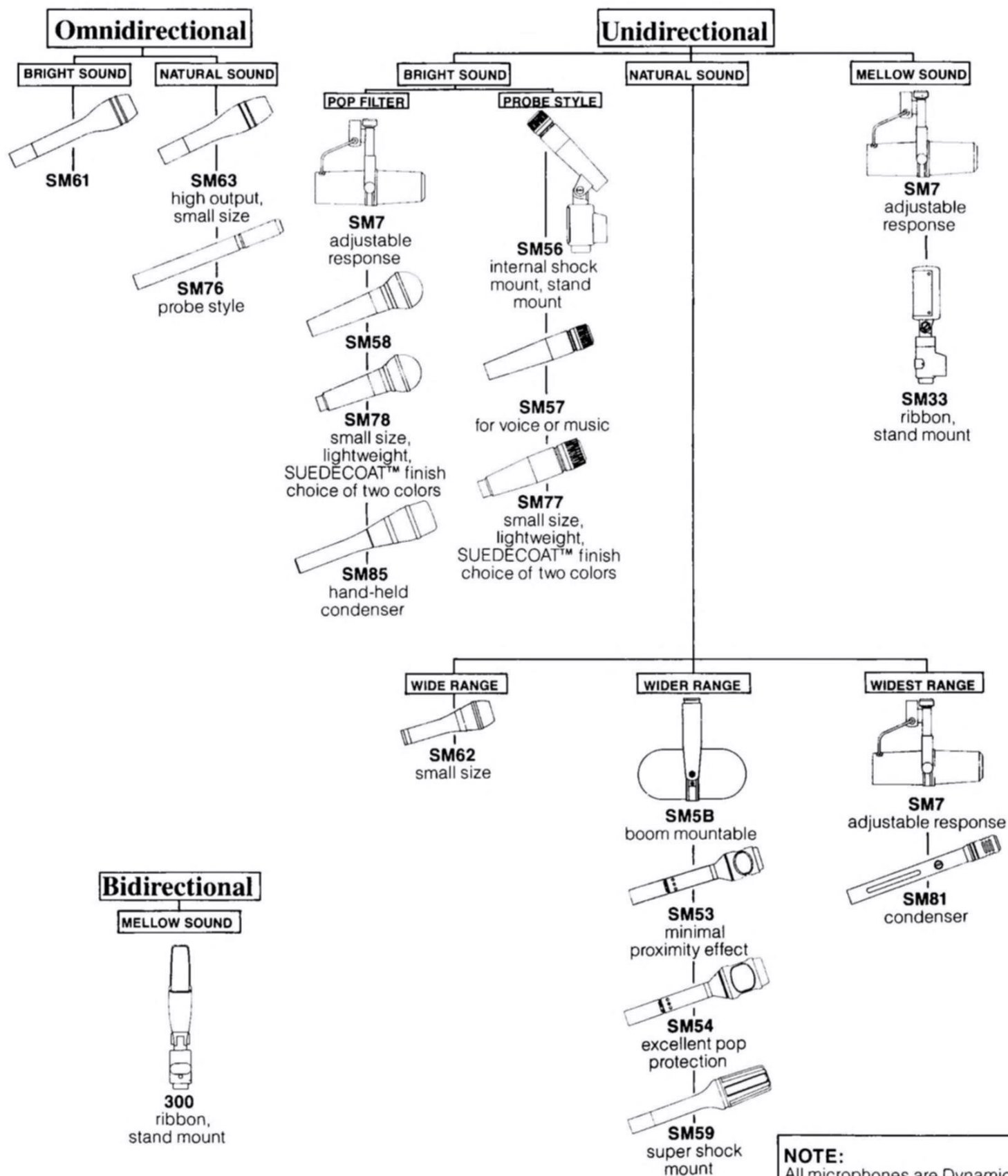


4. The new Grand Ole Opry in Nashville TN has one of the most sophisticated sound systems in the world, and an important part of this system are Shure Microphones—like the Shure SM33 used on the Opry podium.



selection guide

FOR SHURE
PROFESSIONAL
MICROPHONES



NOTE:
All microphones are Dynamic
unless otherwise indicated.

professional UNIDIRECTIONAL DYNAMIC MICROPHONES



SM77 and SM78 The STARMAKER™ SERIES

The STARMAKER Series is made up of two very lightweight, extremely rugged microphones featuring Shure's exclusive SUEDECOAT™ non-reflecting, textured ebony or tan finish.

The SM77 has slim styling, and is especially effective on instrument pickup where brilliant and defined sound is demanded. The SM78 has the added superior wind and pop protection of a spherical screen and grille, making it a "first choice" microphone for rock, pop, R & B, country, gospel, and jazz vocalists.

Both microphones have a fixed low-frequency rolloff plus a slight mid-frequency presence rise in their frequency response. This results in highly intelligible vocals as well as penetrating reproduction of rhythm and keyboard instruments.

In addition, the microphone's uniform cardioid pattern rejects background noise for maximum amplifier gain before feedback, and prevents coloration when performers are off-axis.

STARMAKER microphones are 28% lighter, on average, than similar stage microphones with absolutely no sacrifice in per-

formance, ruggedness or reliability. This reduction in weight reduces performer fatigue in hand-held applications, and the small profile of the SM77 and SM78 won't obscure the performer's face.

The SUEDECOAT finish has a great new look, is pleasant to "feel," easy to clean and is durable enough to stand up to the toughest stage performance. In addition, the grilles of both microphones are treated with a Shure exclusive coating which never rusts or tarnishes.

SM77EB Slim styling, ebony SUEDECOAT, without cable
SM77EB-CN Slim styling, ebony SUEDECOAT, with cable
SM77TN Slim styling, tan SUEDECOAT, without cable
SM77TN-CN Slim styling, tan SUEDECOAT, with cable

SM78EB Ball grille, ebony SUEDECOAT, without cable
SM78EB-CN Ball grille, ebony SUEDECOAT, with cable
SM78TN Ball grille, tan SUEDECOAT, without cable
SM78TN-CN Ball grille, tan SUEDECOAT, with cable

specifications

Model: SM77

Frequency Response: 50 to 15,000 Hz

Polar Pattern: Cardioid (unidirectional)

Impedance Rating: 150 ohms

Output Level

Open Circuit Voltage: 0.11 mV (-79.0 dB, 0 dB = 1V/μbar)

Power Level: -57.5 dB, 0 dB = 1 mW/10 μbar

Connector: Three-pin professional audio

Cable (-CN Models only): 7.6m (25 ft) two-conductor shielded with three-socket professional audio connector at microphone end and three-pin professional audio connector at equipment end

Dimensions: 140 mm L × 32 mm Dia. (5½ × 1¼ in.)

Net Weight: 168 grams (6 oz)

Packaged Weight: w/o cable: 879 grams (1 lb. 15 oz); with cable: 1.33 kg (2 lb. 15 oz)

Supplied Accessories: Swivel adapter, foam-lined storage/carrying case

Optional Accessories: See Page

SM78

50 to 15,000 Hz

Cardioid (unidirectional)

150 ohms

0.11 mV (-79.0 dB, 0 dB = 1V/μbar)

-57.5 dB, 0 dB = 1 mW/10 μbar

Three-pin professional audio

7.6m (25 ft) two-conductor shielded with three-socket professional audio connector at microphone end and three-pin professional audio connector at equipment end

144 mm L × 51.1 mm Dia. (5⅞ × 2 in.)

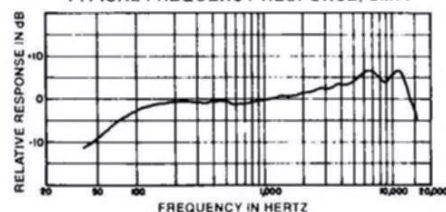
204 grams (7.2 oz)

w/o cable: 913 grams (2 lb); with cable: 1.36 kg (3 lb)

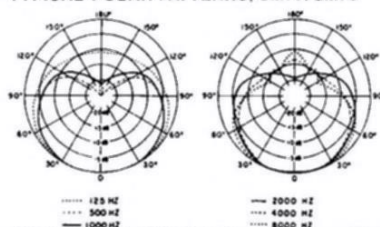
Swivel adapter, foam-lined storage/carrying case

See Page 59

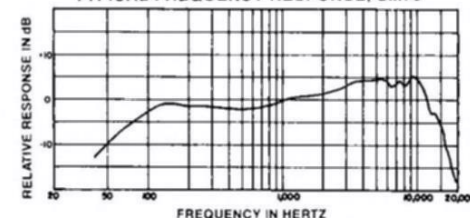
TYPICAL FREQUENCY RESPONSE, SM77



TYPICAL POLAR PATTERNS, SM77, SM78



TYPICAL FREQUENCY RESPONSE, SM78



4

professional UNIDIRECTIONAL DYNAMIC MICROPHONES



SM56 and SM57

The SM56 and SM57 are frequently seen, *and heard*, on television entertainment programs, on the concert stage, at lectures, panel discussions, news conferences, and political conventions. The SM56 is a permanently stand-mounted model with an effective vibration isolator shock mount in the attached swivel. The SM57 can be hand-held or stand-mounted.

The outstanding performance and ruggedness of the SM56 and SM57 are identical. The presence boost of these microphones results in clean, beautifully defined drum, string, and amplified instrument reproduction. Their wide frequency response with a fixed bass rolloff and slight midrange presence boost also make them exceptional for intelligible voice pickup. The well-controlled cardioid polar pattern minimizes background noise in all planes and permits higher amplifier gain before feedback.

Both microphones are finished in non-glare dark gray enamel. The optional A2WS windscreen is particularly effective in controlling breath or wind noise on the SM57. Supplied cables have three-socket connector at microphone end only.

SM56 Permanently stand-mounted model. Permits tilting of microphone through 135°.

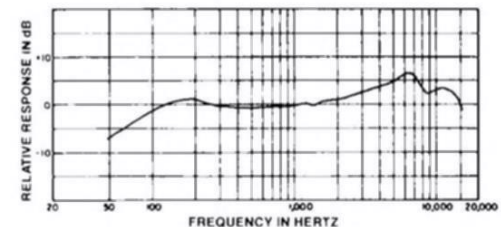
SM57 For hand-held or stand-mount applications.

SM57-CN Same as SM57 but cable has a professional three-pin audio connector at the equipment end.

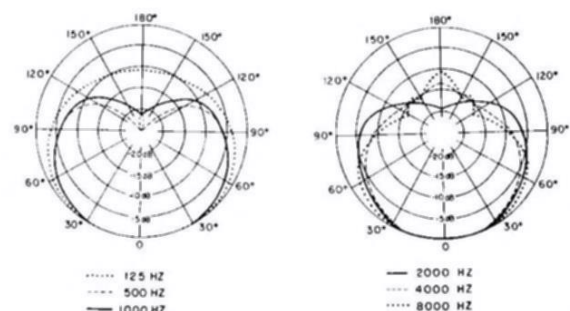
specifications

SM56 and SM57	
Models:	SM56 and SM57
Frequency Response:	40 to 15,000 Hz
Polar Pattern:	Cardioid (unidirectional)
Impedance Rating:	Dual: 38/150 ohms
Output Level	
Open Circuit Voltage:	0.08 mV (−82.0 dB, 0 dB = 1V/μbar) 38 ohms 0.17 mV (−75.5 dB, 0 dB = 1V/μbar) 150 ohms
Power Level:	−56.5 dB, 0 dB = 1 mW/10 μbar
Cable:	6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions:	SM56: 125 mm H x 121 mm W x 42.1 mm Dia. (4 ²⁹ / ₃₂ x 4 ³ / ₄ x 1 ¹ / ₄ in.) SM57: 157 mm L x 32 mm Dia. (6 ¹ / ₁₆ x 1 ¹ / ₄ in.)
Net Weight:	SM56: 1.01 kg (2 lb. 3 ¹ / ₂ oz) SM57: 284 grams (10 oz)
Packaged Weight:	SM56: 1.33 kg (2 lb. 15 oz) SM57: 1.05 kg (2 lb. 10 oz)
Supplied Accessories:	SM56: Connector locking kit, vinyl storage bag SM57: Swivel adapter, connector locking kit, vinyl storage bag

TYPICAL FREQUENCY RESPONSE, SM56, SM57



TYPICAL POLAR PATTERNS, SM56, SM57



professional

UNIDIRECTIONAL DYNAMIC MICROPHONE



SM59

Performance...appearance...quiet operation—the hallmarks of a great microphone. The SM59 is widely used for distinguished TV studio productions...especially musical shows, where sound quality is a major consideration. Its wide, ultra-flat response is enhanced by a controlled low-frequency rolloff, providing a clean, natural sound for voice or instruments. In addition, the performer can control the amount of bass increase by moving toward or away from the microphone. The tightly controlled cardioid pickup pattern is virtually textbook-perfect, minimizing feedback and unwanted background noise. For vocal groups, on stage or in the studio, around podiums or pulpits, the SM59 is a superlative performer. It's superb for miking horns, drums, and vocalists.

The revolutionary design of the SM59 makes this microphone virtually immune to extraneous noise. An extraordinarily efficient

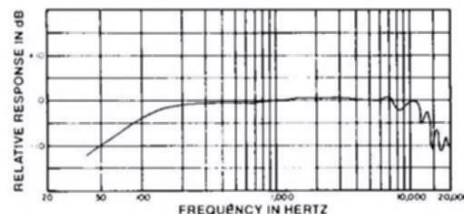
Shure-patented mechano-pneumatic shock mount shields the cartridge from rumble and other mechanically transmitted noise, whether on a stand or hand-held. An integral windscreen provides excellent pop protection, and a built-in humbucking coil minimizes hum due to nearby electromagnetic interference, even strong RF fields found near TV studios. These performance features make the SM59 an exceptional choice for permanent installations such as legislative chambers and court houses where minimum handling noise is essential. The slim profile and elegant champagne finish give the SM59 a distinctive sleek appearance. Although it weighs less than 8 ounces, this microphone is remarkably rugged. Supplied cable has three-socket connector at microphone end and three-pin connector at equipment end.

SM59-LC Same as SM59 but without cable

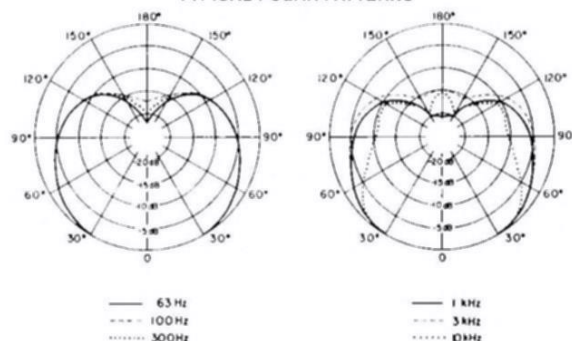
specifications

Model:	SM59
Frequency Response:	50 to 15,000 Hz
Polar Pattern:	Cardioid (unidirectional)
Impedance Rating:	150 ohms
Output Level	
Open Circuit Voltage:	0.07 mV (−83.0 dB, 0 dB = 1V/μbar)
Power Level:	−61.0 dB, 0 dB = 1 mW/10 μbar
Hum Pickup/m0e:	12.5 dB SPL equivalent
Cable:	6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end and three-pin professional audio connector at equipment end
Dimensions:	197 mm L x 41.4 mm Dia. (7 ²⁵ / ₃₂ x 1 ⁵ / ₈ in.)
Net Weight:	215 grams (7.6 oz)
Packaged Weight:	1.62 kg (3 lb. 9 oz)
Supplied Accessories:	Windscreen, swivel adapter, foam-lined storage/carrying case
Optional Accessories:	See Page 59

TYPICAL FREQUENCY RESPONSE



TYPICAL POLAR PATTERNS



professional UNIDIRECTIONAL DYNAMIC MICROPHONES



SM53 and SM54

Two versatile studio-quality microphones combine a smooth, wide-range, flat frequency response without strident peaks or false coloration—plus excellent noise rejection. They are highly recommended for use in recording, broadcasting, and high quality sound reinforcement.

Both microphones feature an additional acoustic port for improved low-frequency directional control which effectively reduces proximity effect (the increase in bass response when a microphone is used close-up). They also feature a broad front working angle that provides constant tone quality despite user movement. This insures uniform sound quality even when the performer-to-microphone position and distance varies throughout a performance.

The SM53 and SM54 can be hand-held, stand-mounted, or used in an overhead boom. The special internal shock mounting reduces susceptibility to mechanical noise, and an internal

hum-bucking coil prevents interference from strong hum fields, even for distant pickup applications. Their cardioid polar response is uniform over a broad frequency range so off-axis reflections, reverberation, and background noises can be controlled. Further, low-frequency background noise can be suppressed by means of a switch-selectable bass rolloff. Both microphones provide extraordinary ruggedness and are finished in durable champagne enamel. Supplied cables have matching three-socket connectors at microphone end only.

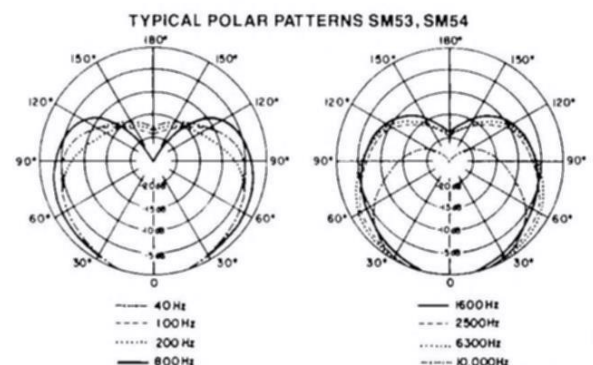
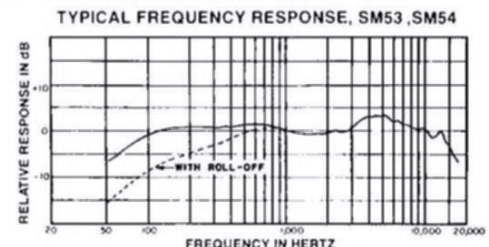
SM53-CN Same as SM53 but cable has a professional three-pin audio connector at the equipment end.

SM54 Same as SM53 but features an ultra-effective built-in "pop" and wind-blast filter that provides truly exceptional suppression of breath and wind noises. This grille assembly (A53G) is also available as an accessory for the SM53 (See page 52).

SM54-CN Same as SM54 but cable has a professional three-pin audio connector at the equipment end.

specifications

Models:	SM53 and SM54
Frequency Response:	70 to 16,000 Hz
Polar Pattern:	Cardioid (unidirectional)
Impedance Rating:	150 ohms
Output Level	
Open Circuit Voltage:	0.09 mV (−81.0 dB, 0 dB = 1V/μbar)
Power Level:	−60.0 dB, 0 dB = 1 mW/10 μbar
Hum Pickup/m0e:	13 dB SPL equivalent
Cable:	6 m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions:	SM53: 182 mm L x 38 mm Dia. (7-5/32 x 1 1/2 in.) SM54: 194 mm L x 44 mm Dia. (7 7/8 x 1 3/4 in.)
Net Weight:	240 grams (8 1/2 oz)
Packaged Weight:	1.36 kg (3 lb)
Supplied Accessories:	Swivel adapter, foam-lined storage/carrying case
Optional Accessories:	See Page 59



professional

UNIDIRECTIONAL DYNAMIC MICROPHONES



SM62



SM5B

SM62

Don't let its small size fool you... Shure's SM62 is a big-time performer in every way. Use it wherever a high-quality compact microphone is needed—on stage, in interviews, on podiums. Less than 5 inches long and weighing only 4 ounces, it's unobtrusive in both hand-held and stand-mounted use.

The SM62's flat, uncolored frequency response and uniform cardioid pickup pattern provide excellent performance as well as control of feedback and unwanted background noise. A carefully controlled low-frequency rolloff prevents the "boominess" associated with close miking. A rubber cartridge shock mount keeps handling noise low, and the integral windscreen minimizes breath pop.

The SM62 is finished in beautiful, durable champagne enamel, and comes with matching swivel adapter. Supplied cable has matching three-socket connector at microphone end only.

SM62-CN Same as SM62 but cable has a professional three-pin audio connector at the equipment end.

specifications

Model: **SM62**
Frequency Response: 100 to 10,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance Rating: 150 ohms
Output Level
 Open Circuit Voltage: 0.08 mV (−82.0 dB, 0 dB = 1V/μbar)
 Power Level: −60.5 dB, 0 dB = 1 mW/10 μbar
Cable: 6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions: 124 mm L x 38.1 mm Dia. (4-29/32 x 1½ in.)
Net Weight: 113.4 grams (4 oz)
Packaged Weight: 968 grams (2 lb, 2 oz)
Supplied Accessories: Swivel adapter, vinyl storage bag
Optional Accessories: See Page 59

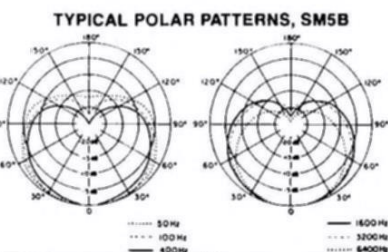
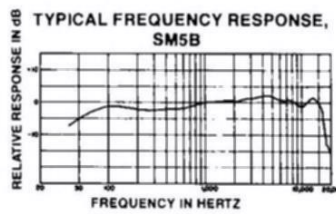
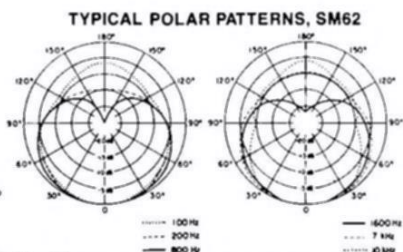
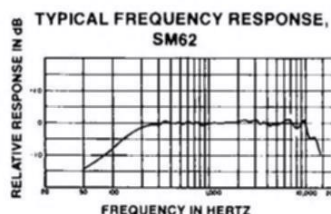
SM5B

Specifically designed to minimize boom microphone problems in television and motion picture sound stage and location recording. Also excellent on accessory desk stand for radio D.J. use. A smooth, wide-range frequency response with moderate presence rise makes it especially suitable for vocal pickup as well as scoring assignments. The SM5B has a cardioid pickup pattern with exemplary off-axis uniformity, even at the extreme low end, giving minimal coloration and maximum rejection of unwanted sounds.

A highly effective integral windscreen completely surrounds the microphone suspension elements to provide maximum wind noise suppression with fast boom swings or in outdoor locations. A humbucking coil and a balanced circuit combined with an absence of transformers and response-correcting inductors make the SM5B highly resistant to electrical noise, even in extreme hum fields around studio or stage lighting.

The exposed metal parts of the microphone are finished in unobtrusive non-glare dark gray; the front windscreen is light gray open-cell foam; the rear is dark gray foam.

Model: **SM5B**
Frequency Response: 50 to 15,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance Rating: 150 ohms
Output Level
 Open Circuit Voltage: 0.11 mV (−79.5 dB, 0 dB = 1V/μbar)
 Power Level: −57.5 dB, 0 dB = 1 mW/10 μbar
Hum Pickup/m0e: 24 dB SPL equivalent
Connector: Three-pin professional audio
Dimensions: 208 mm H x 251 mm W x 128 mm Dia. (8-3/16 x 9-29/32 x 5-1/32 in.)
Net Weight: 964 grams (2 lb, 2 oz)
Packaged Weight: 1.98 kg (4 lb, 6 oz)
Supplied Accessories: Stand adapter, boom adapter
Optional Accessories: See Page 59



professional

UNIDIRECTIONAL DYNAMIC MICROPHONE



SM7

The SM7, designed in conjunction with professional users, is among the finest studio professional dynamic microphones in use today. Its "smooth and silky" sound has made it extremely popular for voice-over recording in radio and television work. It is also an excellent microphone for use with either instruments or voice in multi-track recording situations.

It features a wide-range, very smooth frequency response with graphic *response-tailoring* switches to permit the choice of four different microphone response curves: (1) flat response from 40 to 16,000 Hz; (2) midrange boost (presence peak) for enhanced speech or vocal intelligibility (+3 dB at 3,000 Hz); (3) low-frequency rolloff for natural close-up miking (-6 dB at 100 Hz); (4) combination response with both midrange boost and bass rolloff. The slide switches provide a visual indication of the response selected (as shown at right). The microphone is supplied with a switch cover plate to guard against accidental switching.

The SM7 has an accurate, symmetrical cardioid pickup pattern, uniform with frequency. It provides maximum rejection of unwanted background noise along with minimum coloration of off-axis sound.

The microphone is designed for boom or stand mounting. Mechanical noise is reduced by a Shure-patented air suspension integral shock mount; outdoor wind and moving boom noise as well as breath pop in close-up use are minimized by the integral foam windscreen; and electrical hum pickup is canceled by the built-in humbucking coil. A rigid metal case under the foam windscreen makes the SM7 extremely rugged. Exposed metal parts are non-glare dark gray enamel; foam is dark gray.

VISUAL RESPONSE TAILORING



Flat Response



Presence Boost



Bass Rolloff

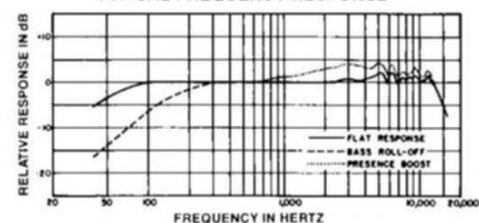


Presence Boost and Bass Rolloff

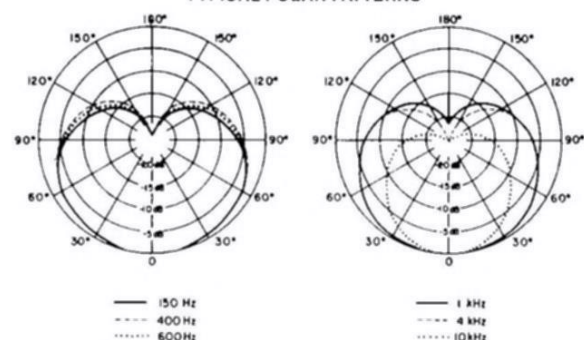
specifications

Model:	SM7
Frequency Response:	40 to 16,000 Hz
Polar Pattern:	Cardioid (unidirectional)
Impedance Rating:	150 ohms
Output Level	
Open Circuit Voltage	0.11 mV (-79.0 dB, 0 dB = 1V/μbar)
Power Level:	-57.0 dB, 0 dB = 1 mW/10 μbar
Hum Pickup/m0e:	13 dB SPL equivalent
Connector:	Three-pin professional audio
Dimensions:	148 mm H x 191 mm W x 96 mm Dia. (5-27/32 x 7-17/32 x 3-25/32 in.)
Net Weight:	764 grams (1 lb, 11 oz)
Packaged Weight:	2.04 kg (4 lb, 8 oz)
Supplied Accessories:	Switch cover plate, foam-lined storage/carrying case
Optional Accessories:	See Page 59

TYPICAL FREQUENCY RESPONSE



TYPICAL POLAR PATTERNS



SM81

A matchless standard in high-quality professional condenser microphones, the SM81 is a superb studio instrument that also meets the most demanding needs of location recording and sound reinforcement. Use it for instrument pickup on drums, acoustic guitars...even cathedral pipe organs, or as an overhead microphone for orchestras and choirs. And, the SM81 is the only high performance, professional quality condenser microphone at a price affordable for home semi-pro recording studios.

Years of design research and operational testing have resulted in a microphone of optimum performance and dependability. Until the introduction of the SM81, condenser microphones commonly failed under field extremes of temperature, humidity or physical punishment. The SM81 not only survives these conditions, but maintains its standards of excellence despite the environment.

The extremely wide-range, flat frequency response of the SM81 means exceptionally accurate operation in recording, broadcast and sound reinforcement. And low-frequency response can be selected to match the application: choose either flat for ideal miking conditions, 6 dB/octave rolloff at 100 Hz to compensate for close-miking proximity effect, or 18 dB/octave cutoff at 80 Hz for reduction of low-frequency disturbances such as wind, air-moving equipment or stage traffic noise. The SM81 handles up to a whopping 135 dB maximum SPL without clipping, and has a built-in selectable 10 dB attenuator to allow operation at up to 145 dB SPL.

The SM81 also features a unique backplate structure designed to maximize signal-to-noise ratio and insure long-term charge

stability. This high signal-to-noise ratio and a controlled directional pickup pattern offer outstanding "reach" (the ability to pick up distant sound while reducing unwanted noise) and discrimination (the rejection of unwanted sound or noise).

The SM81 exhibits unusually low total harmonic distortion below its clipping point—significantly below that of other professional condenser microphones. It's quiet, too; handling and stand-borne noise and internal electrical noise are minimal. And special shielding keeps RF susceptibility extremely low for elimination of hum and buzz.

Incredibly rugged and durable, the SM81 is capable of withstanding extreme physical abuse, while maintaining the high quality performance expected from a studio condenser microphone. The transducer and electronics housing are of heavy-wall steel construction and all internal components are rigidly supported for maximum strength. Rugged enough for road tours, the SM81 is designed to withstand 6-foot drops onto a hardwood floor without significant performance degradation or damage to the case. It's reliable over a temperature range of -20° to $+160^{\circ}$ F at relative humidity from 0 to 95%.

The SM81 can be simplex (phantom) powered from the Shure PS1 and PS1E2 power supplies, or any standard voltage (12 to 48 Vdc) available from most recording consoles.

The SM81 has it all: performance...quality...reliability. In electronic, acoustic and mechanical design, it's truly the state-of-the-art. Supplied cable has three-socket connector at microphone end and three-pin connector at equipment end.

SM81 Puts it ALL together

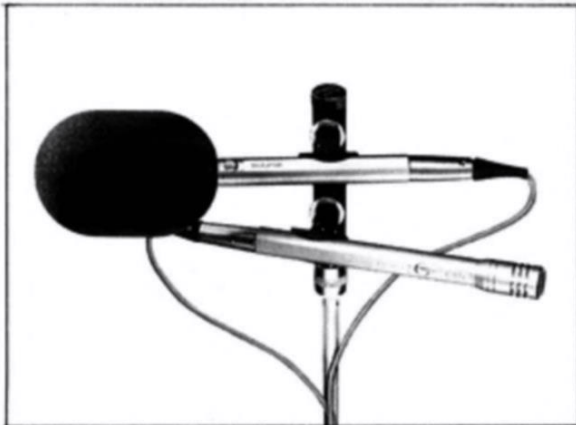
- professional recording
- broadcast

- motion picture recording
- critical sound reinforcement

- **EXTREMELY WIDE-RANGE FLAT FREQUENCY RESPONSE** for exceptionally accurate recording, broadcast, and critical sound reinforcement applications.
- **WIDE DYNAMIC RANGE**—low noise and high output clipping level characteristics.
- **QUIET**—low handling noise, low internal electrical noise.
- **PRECISE CARDIOID** polar pattern, uniform with frequency and symmetrical about axis, to provide maximum rejection and minimum coloration of off-axis sounds.
- **SUPERIOR LOW DISTORTION** characteristics (right up to the overload point) over the entire audio spectrum for a wide range of load impedances.
- **VERY LOW RF SUSCEPTIBILITY.**
- **SELECTABLE LOW-FREQUENCY RESPONSE:** FLAT; 6 dB/octave rolloff at 100 Hz compensates for proximity effect; 18 dB/octave cutoff at 80 Hz reduces effects of low-frequency disturbances with minimal effect on wide-range program material.
- **10 dB ATTENUATOR** for operation at high sound pressure levels, up to 145 dB SPL—accessible without disassembly, lockable in either position.
- **FIELD-USABLE** over a wide range of temperature and humidity conditions.
- **DEPENDABLE DESIGN**—Temperature and humidity stabilized diaphragm configuration, unique backplate structure designed to maximize signal-to-noise ratio and insure long-term charge stability.
- **RUGGED CONSTRUCTION** for outstanding reliability.
- **WIDE-RANGE SIMPLEX POWERING** includes DIN 45 596 voltages of 12 and 48 Vdc. In addition, it will operate over a wide range of power supply impedances.

professional

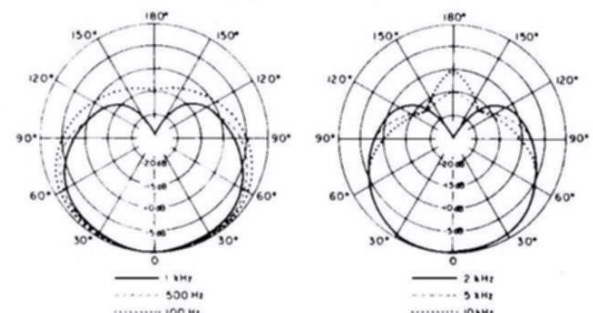
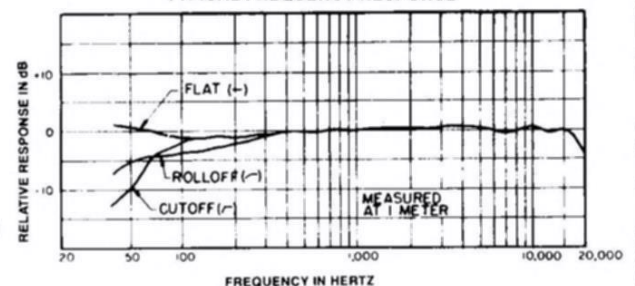
UNIDIRECTIONAL CONDENSER MICROPHONE



specifications

Model: **SM81**
Frequency Response: 20 to 20,000 Hz
Polar Pattern: Cardioid (unidirectional)
Impedance Rating: 150 ohms (minimum recommended load: 800 ohms)
Output Level
 Open Circuit Voltage: 0.63 mV (−64.0 dB, 0 dB = 1V/μbar)
Clipping Level (at 1,000 Hz): 800-ohm load − 4 dBV (0.63V)
 150-ohm load − 15 dBV (0.18V)
Maximum SPL: 145 dB with 800-ohm load (attenuator at 10)
 137 dB with 150-ohm load (attenuator at 10)
Hum Pickup/mOe: −4 dB SPL equivalent
Cable: 7.6m (25 ft) two-conductor shielded with three-socket professional
 audio connector at microphone end and three-pin professional
 audio connector at equipment end
Dimensions: 212 mm L x 23.5 mm Dia. (8 1/2 x 1 1/16 in.)
Net Weight: 230 grams (8 oz)
Packaged Weight: 1.5 kg (3 lb, 6 oz)
Supplied Accessories: Windscreen, swivel adapter, 10 dB attenuator lock, foam-lined
 storage/carrying case

TYPICAL FREQUENCY RESPONSE



TYPICAL POLAR PATTERNS

professional

UNIDIRECTIONAL CONDENSER MICROPHONE



SM85

The SM85 is a lightweight, rugged condenser microphone designed for hand-held live vocal applications. It is capable of withstanding the physical abuse inherent in on-the-road use, yet maintains the highest quality performance expected of a studio condenser microphone. It is ideal for the most demanding live sound reinforcement applications as well as broadcasting and studio recording requirements.

The frequency response of the SM85 is tailored to enhance the performance of the artist throughout the sound spectrum. A controlled low-frequency rolloff minimizes the handling noise and "boominess" sometimes associated with close-up hand-held microphone use. Its response in the mid-range is tailored in the Shure tradition to add "crispness" and presence through carefully placed accentuation in the critical vocal frequencies, giving the artist's voice a clear, sharply defined sound that sets it apart from instrumental back-up. In the upper register, the SM85's clean, clear, scintillating high frequencies delineate subtle overtones and enhance high-frequency timbre.

The SM85 is constructed with a lightweight, yet extremely tough aluminum case and a TEFLON®-coated all-steel grille. An exclusive elastomer "space-frame" isolates and cushions the condenser element from virtually all mechanical vibration. The integral wind and multi-stage pop filters eliminate ordinary wind and breath pop noise. For more demanding applications, an accessory windscreens is furnished.

The SM85 exhibits remarkably low distortion (right up to its over-load point) over the entire audio spectrum...considerably less than other more expensive condenser microphones. Special shielding techniques eliminate magnetic and RF interference resulting from studio lights and broadcast equipment.

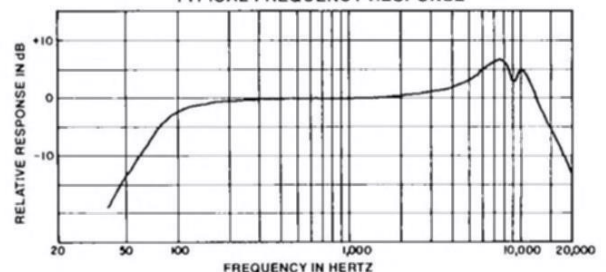
The SM85 can be simplex (phantom) powered from the Shure PS1 and PS1E2 power supplies, or any standard voltage (12 to 48 Vdc) available from most recording consoles. (For more information and specifications on the PS1 and PS1E2, see the accessory section of this catalog.)

SM85 without cable
SM85-CN with cable

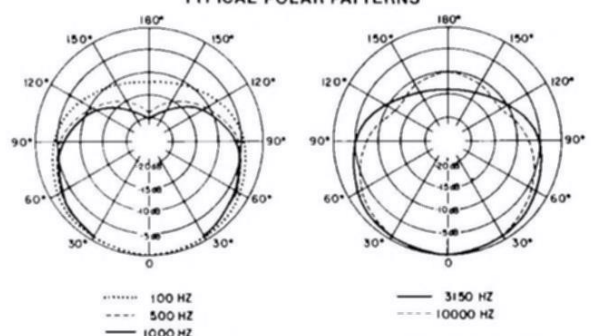
specifications

Model:	SM85
Frequency Response:	50 to 15,000 Hz
Polar Pattern:	Cardioid (unidirectional) response
Impedance Rating:	150 ohms (recommended minimum load impedance: 800 ohms)
Output Level	
Open Circuit Voltage:	-74 dB (0.2 mV) (0 dB = 1V/μbar)
Hum Pickup/mOe:	-7.5 dB SPL equivalent
Cable (Model SM85-CN):	7.6m (25 ft), two-conductor, shielded, TRIPLE-FLEX® with three-pin and three-socket professional audio connectors (microphone connector finish is black)
Dimensions:	192 mm L x 48.8 mm Dia. (7 ⁹ / ₁₆ x 1 ¹⁵ / ₁₆ in.)
Net Weight:	180 grams (6.3 oz)
Packaged Weight:	SM85: 887 grams (1 lb, 15 oz) SM85-CN: 1.47 kilograms (3 lb, 4 oz)
Clipping Level (at 1,000 Hz):	800-ohm load... -4 dBV (0.63V) 150-ohm load... -15 dBV (0.18V)
Maximum SPL:	142 dB with 800-ohm load 134 dB with 150-ohm load
Output Noise	(equivalent sound pressure levels; measured with true rms voltmeter): 29 dB typical, A-weighted 32 dB typical, weighted per DIN 45 405
Power Supply:	Voltage... 11 to 52 Vdc, positive pins 2 and 3 Current Drain... 1.0 mA to 1.2 mA
Supplied Accessories:	Windscreens, swivel adapter, carrying case
Optional Accessories:	See page 59

TYPICAL FREQUENCY RESPONSE



TYPICAL POLAR PATTERNS



professional

OMNIDIRECTIONAL DYNAMIC MICROPHONE



SM63

The SM63 is a small, elegant, rugged microphone with very high output—up to 6 dB higher than comparable omnidirectional microphones. Its low profile (so it won't obscure the performer's face) makes it the perfect choice for on-camera applications. Its design and light weight make it easy to hold and reduce performer fatigue, even when it's continuously hand-held throughout long studio sessions.

The SM63 is particularly well-suited to hand-held vocal and electronic news gathering applications. The smooth, extended frequency response provides a clear, crisp sound and a low-frequency rolloff gives natural sounding pickup with the absence of any "boominess." The Shure-designed and patented mechano-pneumatic shock mount isolation system cuts handling noise to an unobtrusive level and an effective humbucking

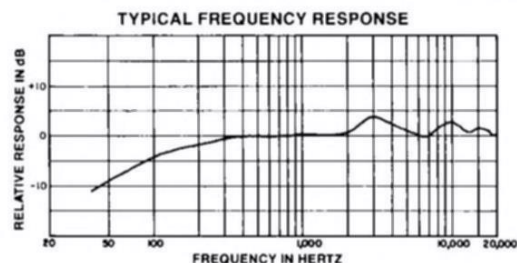
coil rejects the strong magnetic fields found in broadcast situations and near-stage lighting.

The integral wind and pop filter is extremely effective for normal wind and breath pop noise; however, for adverse wind and pop conditions, the SM63 is furnished with an accessory dual-density, two-layer windscreens. The SM63 also features the Shure developed VERAFLX® grille. This grille is nearly indestructible as it is impervious to rust, moisture and dents.

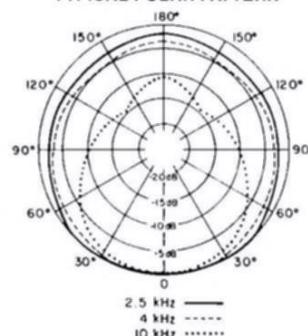
The SM63 is an innovative blending of small size, handsome appearance and broadcast-quality performance. It is beautifully finished in durable champagne enamel and is supplied with matching swivel adapter. Supplied cable has matching three-socket connector at microphone end and three-pin connector at equipment end.

specifications

Model:	SM63
Frequency Response:	50 to 20,000 Hz
Polar Pattern:	Omnidirectional
Impedance Rating:	150 ohms
Output Level	
Open Circuit Voltage:	0.16 mV (−76.0 dB, 0 dB = 1V/μbar)
Power Level:	−56.5 dB, 0 dB = 1 mW/10 μbar
Hum Pickup/m0e:	13 dB SPL equivalent
Cable:	7.6m (25 ft) two-conductor shielded with three-socket professional audio connector at microphone end and three-pin professional audio connector at equipment end.
Dimensions:	145 mm L x 33 mm Dia. (5-11/16 x 1-1/4 in.)
Net Weight:	99 grams (3.5 oz)
Packaged Weight:	0.9 kg (2 lb)
Supplied Accessories:	Windscreens, swivel adapter, vinyl storage bag
Optional Accessories:	See Page 59



TYPICAL POLAR PATTERN



professional

OMNIDIRECTIONAL DYNAMIC MICROPHONES



SM60

The SM60 is equally at home in the studio or for remote pickups. It is in wide use at outdoor sporting events and in studio production numbers.

It has smooth, wide-range response for natural voice and music pickup, a built-in breath and pop filter to minimize breath and wind noise, and an extremely strong, machined steel case front. This versatile microphone combines good looks, light weight, strength, performance and economy. The SM60 is finished in champagne enamel and supplied with a matching swivel adapter. Supplied cable has three-socket connector at microphone end only.

SM61

The SM61 is a lightweight microphone with a smooth, wide frequency response, plus a Shure-patented shock mounting system, an effective built-in "pop" screen, and a VERAFLX® grille. It is well-suited for applications as diverse as remote broadcast interviews or sports coverage to on-stage and television hand-held use. The SM61 is finished in champagne enamel and is supplied with a matching swivel adapter. Supplied cable has three-socket connector at microphone end only.

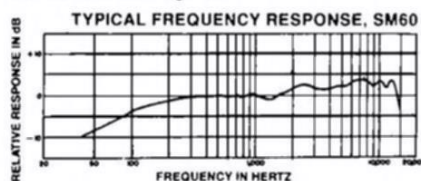
SM61-CN Same as SM61 but cable has a professional three-pin audio connector at the equipment end.

SM76

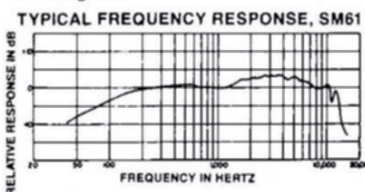
A slender microphone with an extremely wide, smooth frequency response, the SM76 is ideal for studio and remote use in television, radio, and professional recording, and is suitable for pickup of instruments as varied as a delicate acoustic guitar and a full-throated pipe organ. The inconspicuous dark gray enamelled steel case can be hand-held or used on a stand, indoors or out. Although lightweight, the SM76 is dependable and extremely rugged—it will continue to perform up to its original specifications even after long term rigorous use. Supplied cable has three-socket connector at microphone end only.

specifications

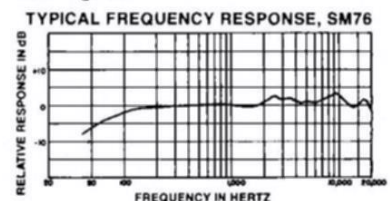
Model: **SM60**
Frequency Response: 45 to 15,000 Hz
Polar Pattern: Omnidirectional
Impedance Rating: 150 ohms
Output Level
Open Circuit Voltage: 0.08 mV (−82.0 dB, 0 dB = 1V/μbar)
Power Level: −61.0 dB, 0 dB = 1mV/μbar
Hum Pickup/mOe: 27 dB SPL equivalent
Cable: 6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions: 158 mm L × 31.7 mm Dia. (6-7/32 × 1-1/4 in.)
Net Weight: 170 grams (6 oz)
Packaged Weight: 907 grams (2 lb)
Supplied Accessories: Swivel adapter
Optional Accessories: See Page 59



Model: **SM61**
Frequency Response: 50 to 14,000 Hz
Polar Pattern: Omnidirectional
Impedance Rating: 150 ohms
Output Level
Open Circuit Voltage: 0.08 mV (−82.0 dB, 0 dB = 1V/μbar)
Power Level: −60.5 dB, 0 dB = 1 mW/10 μbar
Cable: 6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions: 181 mm L × 40 mm Dia. (7 1/8 × 1 7/32 in.)
Net Weight: 147 grams (5.2 oz)
Packaged Weight: 907 grams (2 lb)
Supplied Accessories: Windscreens, swivel adapter, vinyl storage bag
Optional Accessories: See Page 59



Model: **SM76**
Frequency Response: 45 to 20,000 Hz
Polar Pattern: Omnidirectional
Impedance Rating: Dual: 38/150 ohms
Output Level
Open Circuit Voltage: 0.04 mV (−88.0 dB, 0 dB = 1V/μbar) 38 ohms
Power Level: 0.08 mV (−81.5 dB, 0 dB = 1V/μbar) 150 ohms
Hum Pickup/mOe: −61.0 dB, 0 dB = 1 mW/10 μbar
Cable: 6.1m (20 ft) two-conductor shielded with three-socket professional audio connector at microphone end
Dimensions: 210 mm L × 19.8 mm Dia. (8-9/16 × 25/32 in.)
Net Weight: 198 grams (7 oz)
Packaged Weight: 964 grams (2 lb, 2 oz)
Supplied Accessories: Swivel adapter, foam-lined storage/carrying case
Optional Accessories: See Page 59



SHURE...

COMMITMENT TO EXCELLENCE

It was in 1932 that the Shure commitment to excellence first set the standard of quality in microphones.

In the years since, this commitment—to excellence—has never been compromised.

The first Shure microphone—a two-button carbon type—was produced in 1932. While relatively unsophisticated in terms of today's technology, it did have two features common to every Shure microphone introduced since. It offered new design advantages...and improved performance over all existing microphones of a comparable type.

Today, Shure is the world's largest manufacturer of microphones, and its superiority in microphone design and engineering is maintained by the most advanced and expertly staffed microphone research, engineering and production facilities anywhere.

As a result, when anyone in the world wants to be heard properly, there are over 150 different Shure models from which to choose the microphone capable of handling critical audio requirements with utmost quality and reliability.

QUALITY ASSURANCE...

At Shure, maintaining the company's commitment to excellence is a challenge enthusiastically shared by everyone...for at Shure, quality is not an option.

In fact, quality assurance is the direct responsibility of over 14% of our production staff.

Using computerized methods and other state-of-the-art techniques, Shure engineers and technicians enforce uncompromising product performance and quality standards established by the company's Quality Assurance Department...one of the most highly developed operations of its kind in the electronics industry.

For example, before the first model of any new Shure microphone reaches manufacturing status, its piece parts and final assemblies have run the gauntlet of no less than 20 environmental, conformance and performance tests. Then, as an established Shure product, its quality continues to be audited by similar "type tests" to assure that it performs with the same quality as it did when originally approved for production. The audit procedure is constant and ongoing, for the Quality Assurance Department is, indeed, the conscience of Shure.

THE RESULT...

This unparalleled dedication to quality has established a respect for Shure microphones shared throughout the world and permeates every area of microphone usage.

Nowhere is this reliance on Shure quality more in evidence than in the world of entertainment. On stages everywhere...from Las Vegas to London's Palladium...more superstars share the spotlights with Shure microphones than any other kind...by choice, not by chance.

Offstage, thousands of audio engineers and sound technicians zealously protect their reputations by trusting in the reliability of Shure microphones...whether it be at a presidential press conference in Washington...a military installation in Korea...or a temple ceremony in Bali.

Yes, there is virtually no country in the world in which Shure microphones are not used and respected. And, it is on this strong reputation that Shure is continuing to build its future...a future in which Shure is certain to set even higher standards for reliable microphones to meet the world's ever increasing communications needs.

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Shure microphones do something great for all these great voices



1 Mick Jagger of The Rolling Stones

2 Paul Anka

3 Peter Townshend of The Who

4 Crystal Gayle

5 Dionne Warwick

6 Robert Plant of Led Zeppelin

7 Eddie Rabbitt

8 Rod Stewart

9 Ian Anderson of Jethro Tull

10 Charles Aznavour

11 Marie Osmond

12 Brian Wilson of The Beach Boys



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