

# KSM Studio Microphones

*vocal and instrument*

*Performance.*

*Heritage.*

*Technology.*


**SHURE**

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***KSM Vocal and Instrument Studio Microphones.  
For Extraordinary Sound Reproduction.***

 There's more to a great recording than sound alone. There's heart, energy, mood. Shure KSM Studio Microphones preserve these subtleties with extraordinary detail. Our vocal mics offer incredible variety. From the warm and articulate sound of the multi-pattern KSM44 to the open, natural sound of the KSM32 to the versatility of the KSM27, these powerful, sensitive microphones provide your studio with function and flexibility.

KSM Studio Microphones for instrument applications round out your studio with clarity, authenticity, and precision. The dual-pattern KSM141, cardioid KSM137 and affordable KSM109 offer the same high-quality sound reproduction that helps a studio make its name.

For over 75 years, Shure has developed some of the industry's finest microphones. Our name is synonymous with quality and value. The KSM family of studio microphones is no exception. Finally, you can have superior studio condenser microphones without compromise.



### ***KSM44. Carefully Interwoven Technologies. A New Studio Standard.***

The flagship of the KSM line, the KSM44 multi-pattern condenser microphone has an extended frequency response specially tailored for critical studio vocal tracking. Its ultra-thin, externally biased, large dual diaphragms provide precise articulation; extremely low self-noise (7 dBA) ensures that the KSM44 captures only the sounds of the performance.

Inside, the three polar patterns – Cardioid, Omnidirectional, and Bidirectional – offer greater flexibility and uniformity in a wide variety of critical recording applications. Class A, transformerless preamplifier circuitry provides extremely fast transient response and no crossover distortion for improved linearity across the full frequency range.

In addition, the KSM44 has a 15 dB attenuation switch for handling high input SPL sound sources, and a 3-position switchable low frequency filter that virtually eliminates unwanted background noise.



Shure-quality construction includes:

- A durable zinc die-cast microphone housing and hardened low carbon steel grille to protect the cartridge during accidental drops.
- An integrated three-stage pop protection grille to guard against wind and breath noise.
- An internal shock mount to reduce unwanted handling and stand noise.

### ***KSM32. What You Hear is What You Get.***

Pure, uncolored sound. The KSM32 cardioid condenser microphone has an extended low frequency response and is designed to provide an open and natural reproduction of the original sound source.

Flexible enough to handle a variety of demanding sound sources, the KSM32 has a 15 dB attenuation switch for handling extremely high sound pressure levels associated with drums, percussion, ensembles and wind instruments.



To achieve extended low frequency reproduction, the KSM32 features an embossed, ultra-thin, high-compliance diaphragm. This gold-layered, low-mass Mylar® diaphragm provides the excellent transient response necessary to faithfully reproduce any sound source.

The KSM32 also features a 3-position switchable low frequency filter that nearly eliminates unwanted background noise and the same Shure-quality construction and pop protection as the multi-pattern KSM44 microphone.



### ***KSM27. The Right Fit for Your Studio.***

Upgrade your microphone collection with the KSM27, a critical piece of equipment for your studio. Behind its grille lies a side-address condenser microphone element with a cardioid polar pattern that picks up vocal and instrument nuances with precision.

Its 1-inch, externally biased, ultra-thin Mylar® diaphragm provides superior transient response. The Class A transformerless preamplifier provides transparency, fast transient response, and no cross over distortion. And a 3-position low frequency filter that helps reduce unwanted background noise makes sure that you record only what you want to hear.

Because it's a KSM, it features an extended frequency response, low self-noise, and exceptional low frequency reproduction.

The grille consists of three separate mesh layers that act as an integral pop filter that helps reduce wind and breath noise. All in all, the KSM27 provides Shure quality at an affordable price.





***KSM Instrument Microphones.  
When It's Time to Play.***

Shure KSM Studio microphones for instrument applications take the time-tested clarity, heritage and performance of the KSM line and dedicate it to instrument sound reproduction - with results that exceed your expectations. These microphones offer flexibility, precision, and the freedom to capture the sound you're looking for every time.



### **KSM141**

*The Ultimate  
Recording Experience.*

From the moment you try the KSM141, you'll notice a difference in everything you record. It's a dual-pattern condenser microphone that switches from cardioid to omnidirectional without using any extra electronic circuitry or removable capsules.

Designed to withstand the punishing sound pressure of percussion while picking up the subtlest notes from an acoustic guitar, the KSM141 has a three-position attenuation switch to adjust between 0 dB, 15 dB and 25 dB. It inherits the low self-noise (14 dB) and extended frequency response (20 Hz-20 kHz) of the KSM line. A switchable low frequency filter features three positions to counter background noise and proximity effect. The Class A transformerless preamplifier circuitry in the KSM141 eliminates undesirable crossover distortion and odd-order harmonic distortion for outstanding linearity across the full frequency range.

Complete with carrying case, break-resistant mic clip, and Popper Stopper™ windscreen, the KSM141 offers the ultimate studio recording experience. Stereo pairs also available.



### **KSM137**

*Versatility  
Across the Board.*

Featuring a single cardioid polar pattern, the KSM137 is anything but your standard studio instrument microphone. Versatile, durable, and precise, the KSM137 is an outstanding microphone for instruments ranging from percussion to wind, strings to brass, piano to guitar.

As you've come to expect from the KSM line, the KSM137 features low self-noise (14 dB) and extended frequency response (20 Hz-20 kHz). It includes a three-position attenuation switch to adjust between 0 dB, 15 dB and 25 dB for handling extremely high SPL's. A switchable low frequency filter features three positions to counter background noise and proximity effect. Like the KSM141, the KSM137's Class A transformerless preamplifier circuitry eliminates undesirable crossover distortion and odd-order harmonic distortion for outstanding linearity across the full frequency range.

Complete with carrying case, break-resistant mic clip and Popper Stopper™ windscreen, the KSM137 is a versatile mic for nearly any studio application. Stereo pairs also available.



### **KSM109**

*Simply  
Instrumental.*

The KSM109 offers incredible performance for its price. It combines an extended frequency response for natural sound reproduction with a smooth high end and a tight, controlled low end. It's all the mic you need for studio instrument recording.

The KSM109 reproduces instrument sound efficiently and accurately, combining a cardioid polar pattern, ultra-thin diaphragm, transformerless preamplifier circuitry and low self-noise (19 dB) with extended frequency response (20 Hz-20 kHz). The KSM109 also features a 15 dB pad for high SPL sound sources.

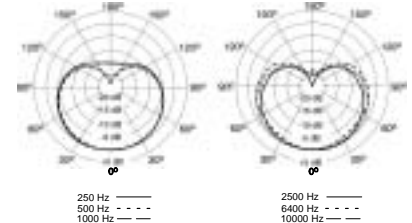
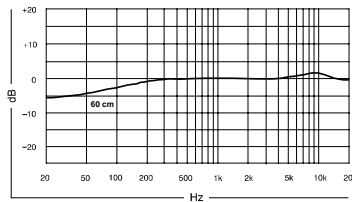
Complete with a zippered microphone pouch and a Popper Stopper™ windscreen, the KSM109 provides incredible performance at a very reasonable price.

# STUDIO CONDENSER MICROPHONES / INSTRUMENTAL

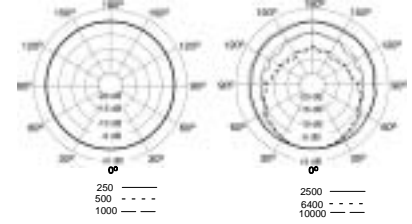
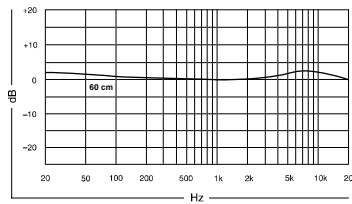
MODEL	KSM141	KSM137	KSM109
DIRECTIONAL POLAR PATTERN	Cardioid Omnidirectional	Cardioid	Cardioid
CARTRIDGE TYPE	Permanently Biased Condenser		
FREQUENCY RESPONSE	20 to 20,000 Hz		
SENSITIVITY (typical; @1000Hz; 1Pa=94 dB SPL)	-37 dBV/Pa	-37 dBV/Pa	-41 dBV/Pa
SELF-NOISE (typical; equivalent SPL; A-weight; (IEC 651))	14 dB	14 dB	19 dB
MAXIMUM SPL (2500 ohm load; Attenuator on)	139 (154, 164) dB	139 (154,164) dB	144 (159) dB
DYNAMIC RANGE (2500 ohm load)	125 dB		
SIGNAL-TO-NOISE RATIO	80 dB	80 dB	75 dB
OUTPUT IMPEDANCE (actual)	150 ohms		
OUTPUT CLIPPING LEVEL (2500 ohm load)	9 dBV		
ATTENUATION SWITCH	0, -15, or -25 dB	0, -15, or -25 dB	0 or -15 dB
LOW FREQUENCY RESPONSE SWITCH (-6 dB/octave below 115 Hz; -18 dB/octave below 80 Hz; flat)	YES	YES	NO
MAXIMUM BODY DIAMETER	22 mm (0.90 in)	21 mm (0.85 in)	28 mm (1.09 in)
NET WEIGHT	156 g (5.5 oz)	100 g (2.5 oz)	195 g (6.9 oz)
LENGTH	146 mm (5.7 in)	122 mm (4.81 in)	162 mm (6.38 in)

## FREQUENCY RESPONSE GRAPH AND POLAR PATTERNS

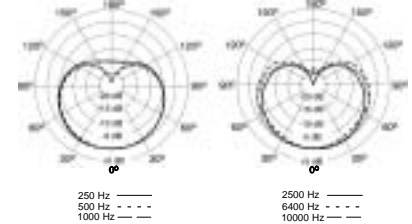
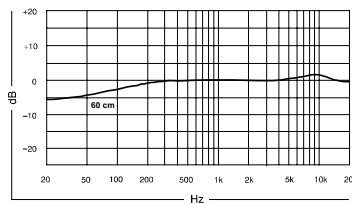
### KSM141 Cardioid



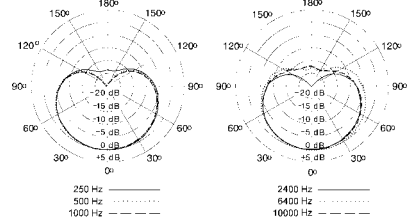
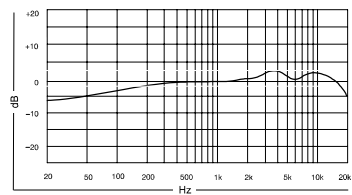
### KSM141 Omnidirectional



### KSM137 Cardioid



### KSM109 Cardioid

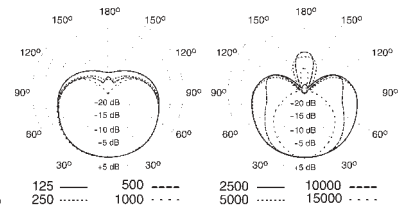
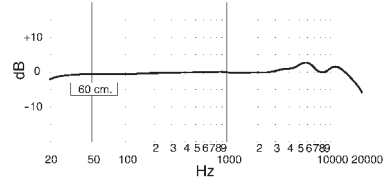


# STUDIO CONDENSER MICROPHONES/VOCAL

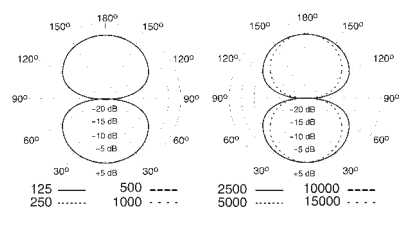
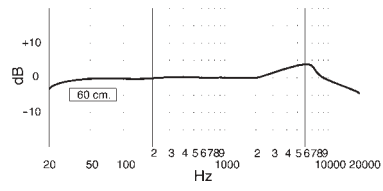
MODEL	KSM44			KSM32	KSM27
DIRECTIONAL POLAR PATTERN	Cardioid	Omnidirectional	Bidirectional	Cardioid	Cardioid
CARTRIDGE TYPE	Externally Biased Condenser			Permanently Biased Condenser	Externally Biased Condenser
FREQUENCY RESPONSE	20 to 20,000 Hz				
SENSITIVITY (typical; @1000Hz; 1Pa=94 dB SPL)	-31 dBV/Pa	-37 dBV/Pa	-36 dBV/Pa	-36 dBV/Pa	-37 dBV/Pa
SELF-NOISE (typical; equivalent SPL; A-weight; (IEC 651))	7 dB	10 dB	10 dB	13 dB	14 dB
MAXIMUM SPL (2500 ohm load; Attenuator on)	132 (149) dB	138 (151) dB	137 (150) dB	139 (154) dB	138 (153) dB
DYNAMIC RANGE (2500 ohm load)	125 dB	128 dB	127 dB	126 dB	124 dB
SIGNAL-TO-NOISE RATIO	87 dB	84 dB	84 dB	81 dB	80 dB
OUTPUT IMPEDANCE (actual)	150 ohms			150 ohms	150 ohms
OUTPUT CLIPPING LEVEL (2500 ohm load)	7 dBV			9 dBV	7 dBV
ATTENUATION SWITCH	0 or -15 dB				
LOW FREQUENCY RESPONSE SWITCH (-6 dB/octave below 115 Hz; -18 dB/octave below 80 Hz; flat)	YES				
MAXIMUM BODY DIAMETER	56mm (2.20 in)				
LENGTH	187 mm (7.37 in)			187 mm (7.37 in)	156 mm (7.37 in)
NET WEIGHT (microphone only)	490.5 g (17.3 oz)			490 g (17.3 oz)	418.5 g (14.8 oz)

## FREQUENCY RESPONSE GRAPH AND POLAR PATTERNS

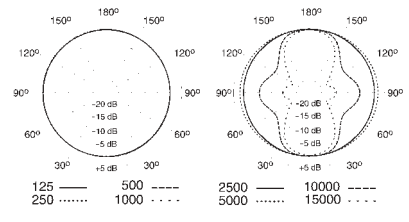
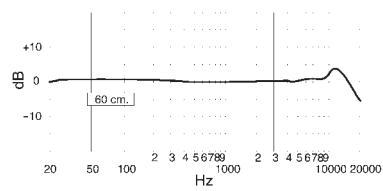
### KSM44 Cardioid



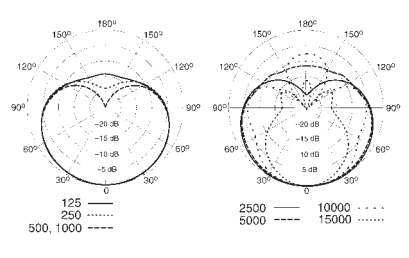
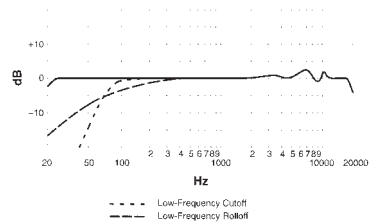
### KSM44 Bidirectional



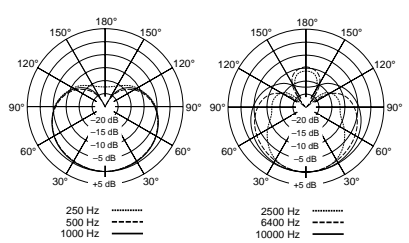
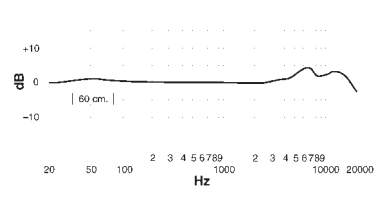
### KSM44 Omnidirectional



### KSM32 Cardioid



### KSM27 Cardioid



All KSM microphones require phantom power and perform optimally with a 48 Vdc supply. They will operate with slightly decreased headroom and sensitivity with supplies as low as 11 Vdc.

