

SHURE[®]
LEGENDARY
PERFORMANCE™

Wired Microphones
SM137

SM137

CARDIOID CONDENSER MICROPHONE
MICROPHONE ÉLECTROSTATIQUE CARDIOÏDE
NIEREN-KONDENSATORMIKROFON
MICROFONO DE CONDENSADOR DE CARDIOIDE
MICROFONO CARDIOIDE A CONDENSATORE
カーディオイド コンデンサー型マイクロホン



GENERAL DESCRIPTION

The Shure® SM137 is a versatile, flat-response cardioid probe microphone with an ultra-thin diaphragm. Its frequency response combines smooth high-end and tight, controlled low-end. A 15 dB pad provides natural, consistent sound reproduction in both acoustic and high-volume performance applications.

FEATURES

- Cardioid polar pattern to reduce the pickup of unwanted sounds
- Ultra-thin, 2.5 µm 24 karat gold-layered, low mass Mylar® diaphragm for superior transient response
- Class A, discrete, transformerless preamplifier for transparency, extremely fast transient response, no crossover distortion, and minimal harmonic and intermodulation distortion
- Premium electronic components, including gold-plated internal and external connectors
- Two-position switchable pad (0 dB and 15 dB) for handling extremely high sound pressure levels (SPLs)

PERFORMANCE CHARACTERISTICS

- Extended frequency response
- Low self-noise
- Exceptional low-frequency reproduction
- Can withstand high sound pressure levels (SPLs)
- High output level
- No crossover distortion
- Uniform polar response
- Superior common mode rejection and suppression of radio frequency interference (RFI)

APPLICATIONS

- Electric guitar amplifiers
- Brass and woodwind instruments
- Orchestras, choirs, and wind ensembles
- Overhead miking of drums and percussion instruments
- Close-miking of acoustic instruments such as piano, guitar, violins, drums, and percussion
- Low-frequency instruments such as double bass and kick drum
- Room ambience pick-up (guitar amplifier or drums)

Note: Sound quality is strongly affected by microphone location and room acoustics. To achieve the best overall sound for a particular application, it may be necessary to experiment with microphone placement and room treatments.

Mounting the Microphone

Thread the supplied stand adapter onto a floor or boom stand and insert the microphone.

NOTE: Since this microphone reproduces ultra-low frequencies, use an isolating shock mount (available at www.shure.com) to reduce low-frequency mechanical vibrations transmitted through the stand.

Setting Attenuation

The attenuation switch lets you reduce the signal level without altering the frequency response. This can prevent extremely loud sounds from overloading the microphone.

0 dB For “quiet” to “normal” sound levels.

-15 dB For use with extremely loud sound sources such as drums, horns, or loud guitar cabinets.

Integral Pop Filter

The microphone grille consists of 3 separate mesh layers that act as an integral pop filter. This helps reduce wind and breath noise. Depending on the performer, an external pop-protection screen or windscreens may be necessary when close-miking vocalists.

Load Impedance

Maximum SPL capability, output clipping level, and dynamic range varies with the input load impedance of the preamplifier to which you connect the microphone. Shure recommends a minimum input load impedance of 1000 Ω, and most modern microphone preamplifiers meet this requirement. Higher impedance results in better performance for these specifications.

Power Requirements

This microphone requires phantom power and performs best with a 48 Vdc supply (IEC-268-15/DIN 45 596). However, it will operate with slightly decreased headroom and sensitivity with supplies as low as 11 Vdc. Most modern mixers provide phantom power. Phantom power can only be transmitted through a cable terminated with XLR connectors at each end.

SPECIFICATIONS

Type	Electret Condenser
Frequency Response	20 to 20,000 Hz
Polar Pattern	Cardioid
Output Impedance	150 Ω (actual)
Sensitivity (at 1 kHz, open circuit voltage)	-41 dBV/Pa 1 Pascal=94 dB SPL
Maximum SPL (1 kHz at 1% THD)	1000 Ω load: 139 dB (154 dB, Pad on) 2500 Ω load: 144 dB (159 dB, Pad on)
Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)	75 dB S/N ratio is difference between 94 dB SPL and equivalent SPL of self noise, A-weighted
Dynamic Range (at 1 kHz)	1000 Ω load: 120 dB 2500 Ω load: 125 dB
Common Mode Rejection (10 Hz to 100 kHz)	> 50 dB
Clipping Level (20Hz-20 kHz at 1% THD)	1000 Ω load: 3 dBV 2500 Ω load: 9 dBV THD of microphone preamplifier when applied input signal is equivalent to cartridge output at specified SPL
Self Noise (typical, equivalent SPL, A-weighted)	19 dB
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
Weight	Net: 195 g (6.9 oz.)
Switch	Attenuator: -15 dB
Connector	Three-pin professional audio (XLR), male
Power Requirements	48 Vdc phantom, 5.2 mA

CERTIFICATION

Eligible to bear CE Marking. Conforms to European EMC Directive 2004/108/EC. Meets Harmonized Standards EN55103-1:1996 and EN55103-2:1996, for residential (E1) and light industrial (E2) environments.

The Declaration of Conformity can be obtained from:

Authorized European representative:

Shure Europe GmbH

Headquarters Europe, Middle East & Africa

Department: EMEA Approval

Jakob-Dieffenbacher-Str. 12

75031 Eppingen, Germany

Phone: 49-7262-92 49 0

Fax: 49-7262-92 49 11 4

Email: info@shure.de

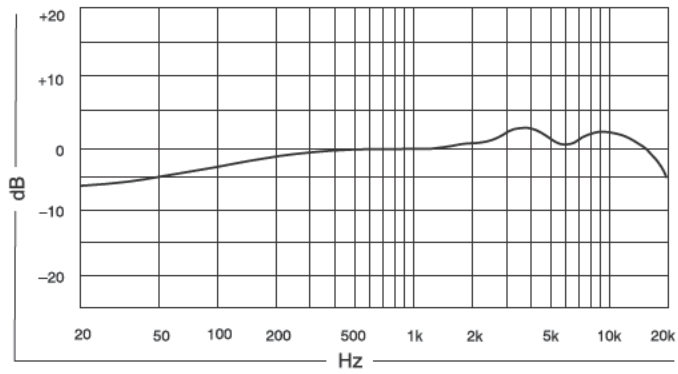
ACCESSORIES AND PARTS

Furnished Accessories

Storage Bag	95C2313
Windscreen	A3WS
Swivel Stand Adapter	A25D

Optional Accessories

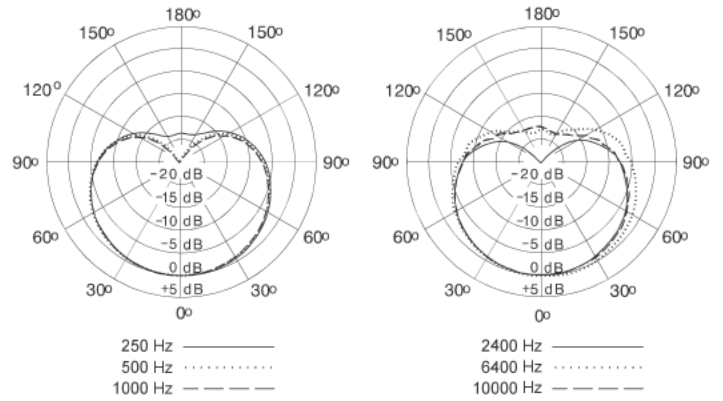
Shock Stopper™ Isolation Mount	A55M, A55HM
Popper Stopper™	PS-6



TYPICAL FREQUENCY RESPONSE

COURBE DE REPOSE TYPIQUE - TYPISCHES FREQUENZVERHALTEN
 RESPUESTA DE FRECUENCIA TIPICA - TIPICA RISPOSTA IN FREQUENZA

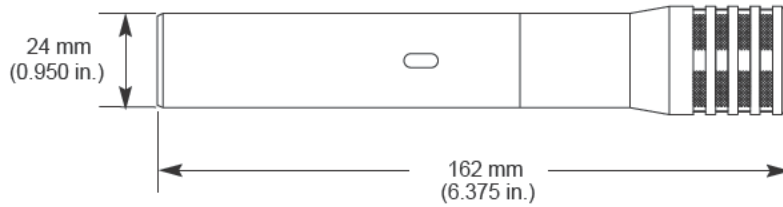
周波数特性



TYPICAL POLAR PATTERNS

COURBE DE DIRECTIVITE TYPIQUES - TYPISCHE POLARCHARAKTERISTIK
 PATRONES DE CAPTACION POLAR TIPICOS - TIPICI DIAGRAMMI POLARI

指向特性



OVERALL DIMENSIONS - DIMENSIONS HORS TOUT

GESAMTABMESSUNGEN - DIMENSIONES TOTALES - DIMENSIONI TOTALI - 寸法



**United States, Canada, Latin
America, Caribbean:**

Shure Incorporated
5800 West Touhy Avenue
Niles, IL 60714-4608 USA

Phone: 847-600-2000
Fax: 847-600-1212 (USA)
Fax: 847-600-6446
Email: info@shure.com

Europe, Middle East, Africa:

Shure Europe GmbH
Jakob-Dieffenbacher-Str. 12,
75031 Eppingen, Germany

Phone: 49-7262-92490
Fax: 49-7262-9249114
Email: info@shure.de

Asia, Pacific:

Shure Asia Limited
22/F, 625 King's Road
North Point, Island East
Hong Kong

Phone: 852-2893-4290
Fax: 852-2893-4055
Email: info@shure.com.hk