

# SM137 Cardioid Condenser Microphone

## Overview

The SM137 is a versatile, flat-response cardioid condenser probe microphone with an ultra-thin diaphragm for a frequency response that combines a smooth high-end with a tight, controlled low-end and a -15 dB pad for natural 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  $\mu\text{m}$  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)

## Available Models

<b>SM137</b>	Includes a swivel adapter and a zippered pouch
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## Specifications

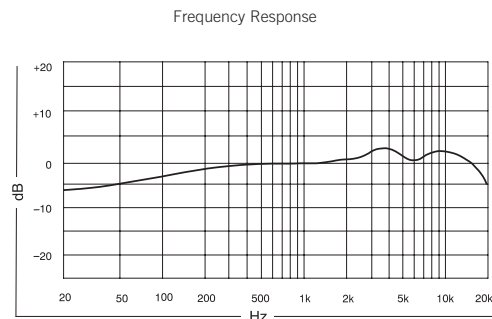
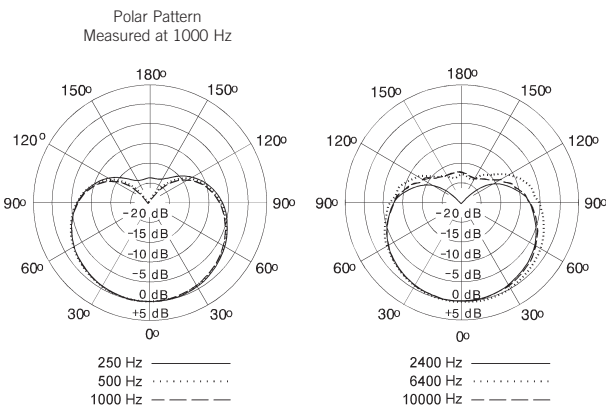
<b>Type</b>	Electret condenser
<b>Frequency Response</b>	20 to 20,000 Hz
<b>Polar Pattern</b>	Cardioid
<b>Impedance</b>	150 $\Omega$ (actual)
<b>Sensitivity</b> (at 1 kHz, Open circuit voltage)	-41 dBV/Pa 1 Pascal=94 dB SPL
<b>Maximum SPL</b> (1 kHz, < 1% THD)	1000 $\Omega$ load: 139 dB (154 dB, Pad on) 2500 $\Omega$ load: 144 dB (159 dB, Pad on)
<b>Signal-to-Noise Ratio</b> (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
<b>Dynamic Range</b> (at 1 kHz)	1000 $\Omega$ load: 122 dB 2500 $\Omega$ load: 128 dB
<b>Common Mode Rejection</b> (20 Hz to 20 kHz)	> 50 dB
<b>Clipping Level</b> (20Hz-20 kHz at 1% THD)	1000 $\Omega$ load: 3 dBV 2500 $\Omega$ load: 9 dBV THD of microphone preamplifier when applied input signal is equivalent to cartridge output at specified SPL
<b>Self Noise</b> (typical, equivalent SPL, A-weighted)	19 dB
<b>Polarity</b>	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3
<b>Weight</b>	195 g
<b>Switch</b>	Attenuator: -15 dB
<b>Dimensions</b>	162 mm L x 24 mm
<b>Connector</b>	Three-pin professional audio (XLR), male
<b>Power Requirements</b>	48 Vdc phantom, 5.2 mA



SM137

## Optional Accessories and Replacement Parts

<b>A55M, A55HM</b>	Shock stopper™ isolation mount	<b>A53M</b>	Isolation mount	<b>A25D</b>	Microphone clip
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