

# SM86 Cardioid Condenser Microphone

## Overview

The SM86 is an award-winning, rugged cardioid condenser microphone with an extended high frequency response. Constructed with a three-point shock mount and a two-stage internal pop filter, the tailored frequency response of the SM86 delivers consistently smooth reproduction of lead vocals, even under the most extreme performance conditions.

## Features

- Condenser cartridge for studio quality sound
- Tailored frequency response for a clear reproduction of vocals
- Rugged construction withstands the rigors of touring sound
- Cardioid polar pattern minimizes unwanted background noise
- Excellent choice for stage monitors and personal monitors
- Built-in three-point shock mount minimizes handling noise
- Two-stage pop filter reduces wind and breath noise

## Available Models

|         |   |
|---------|---|
| SM86-LC | Includes stand adapter and zippered pouch |
|---------|---|



SM86

## Specifications

|                           |   |
|---------------------------|---|
| Type                      | Condenser   |
| Frequency Response        | 50 to 18,000 Hz   |
| Polar Pattern             | Cardioid  |
| Sensitivity (at 1,000 Hz) | Open circuit voltage: -50 dBV/Pa (3.15 mV)<br>(1 Pa = 94 dB SPL)  |
| Impedance                 | 150 Ω at 1 kHz<br>Recommended minimum load impedance: 600 Ω   |
| Output Clipping Level     | 1000 Ω load at 1,000 Hz: +3 dBV (1.41 V)  |
| Maximum SPL (at 1,000 Hz) | 1000 Ω load (1% THD): 147 dB  |
| Self-Noise                | 23 dB typical, A-weighted   |
| Dynamic Range (1000 Ω)    | 124 dB (maximum SPL to A-weighted noise level)  |
| Signal-to-Noise Ratio     | 71 dB at 94 dB SPL (IEC 651)*<br>*S/N ratio is difference between 94 dB SPL and equivalent SPL of self-noise A-weighted |
| Polarity                  | Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of the output connector             |
| Power Requirements        | 11 to 52 Vdc, 5.2 mA  |
| Case                      | Dark gray, enamel-painted, die-cast with a stainless steel grille   |
| Connector                 | Three-pin professional audio connector (male XLR type)  |
| Weight                    | 284 g   |
| Dimensions                | 183 mm L x 49 mm W  |

## Optional Accessories and Replacement Parts

|       |                       |        |                    |       |                         |
|-------|-----------------------|--------|--------------------|-------|-------------------------|
| A25D  | Microphone clip       | A55M   | Shock stopper clip | A55HM | Shock stopper half clip |
| A85WS | Microphone windscreen | RPM226 | Replacement grille |       |                         |

