

Product Specifications

SM7B Cardioid Dynamic Microphone

Overview

The SM7B is a selectable frequency response microphone that delivers warm and smooth audio in close-proximity studio and vocal applications. Optimized shielding from external electromagnetic hum, along with internal shock mounting, external windscreens and adjustable bass roll-off and mid-range emphasis response settings provide clean, consistent reproduction.

Features

- Flat, wide-range frequency response for exceptionally clean and natural reproduction of both music and speech
- Bass rolloff and mid-range emphasis (presence boost) controls with graphic display of response setting
- Improved rejection of electromagnetic hum, optimized for shielding against broadband interference emitted by computer monitors
- Internal "air suspension" shock isolation virtually eliminates mechanical noise transmission
- Highly effective pop filter eliminates need for any add-on protection against explosive breath sounds, even for close-up vocals or narration
- Now shipping with the A7WS detachable windscreen, designed to reduce plosive sounds and gives a warmer tone for close-talk vocals
- Yoke mounting with captive stand nut for easy mounting and dismounting provides precise control of microphone position
- Classic cardioid polar pattern, uniform with frequency and symmetrical about axis, to provide maximum rejection and minimum coloration of off-axis sound
- Rugged construction and excellent cartridge protection for outstanding reliability



SM7B

Available Models

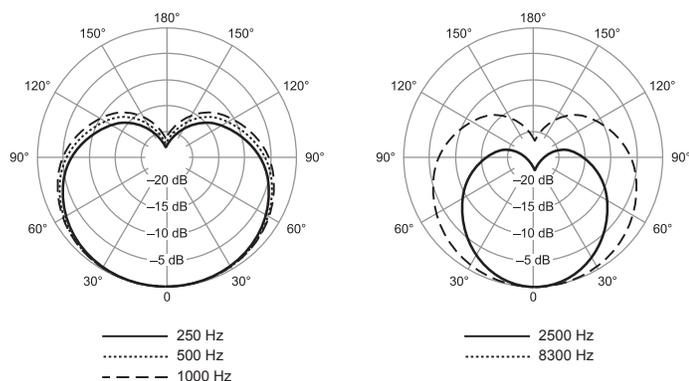
SM7B	Includes foam winder, close-talk winder, and locking yoke mount.
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Specifications

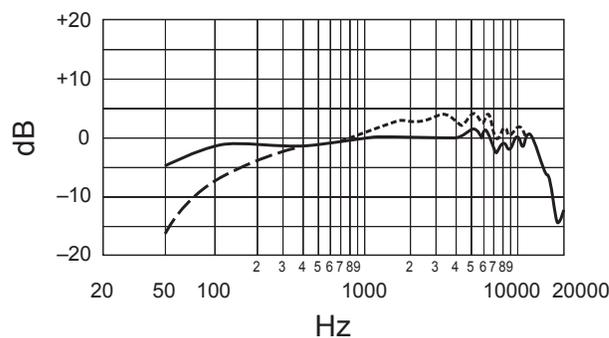
Type	Dynamic
Frequency Response	50 to 20,000 Hz
Polar Pattern	Cardioid
Electromagnetic Hum Sensitivity (Typical, Equivalent SPL/milliOersted)	60 Hz: 11 dB 500 Hz: 24 dB 1 kHz: 33 dB
Impedance	150 ohms for connection to microphone inputs rated at 19 to 300 ohms.
Output Level (at 1,000 Hz)	Open Circuit Voltage: -59.0 dB (1.12 mV) 0 dB = 1 volt per Pascal
Switches	Bass rolloff and mid-range emphasis: Slotted response selector switches.
Cartridge Shock Mount	Internal air-suspension shock and vibration isolator.
Microphone Connector	Three-pin professional audio (XLR)
Swivel Assembly	Integrated, captive nut for ease of attachment to stand, fits 5/8 in.-27 thread.
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3.
Case	Dark gray enamel aluminum and steel case with dark gray foam winder.
Net Weight	765.4 grams (1 lb, 11 oz)

Optional Accessories and Replacement Parts

A7WS	Large Close-Talk Winder	RPM106	Replacement Cartridge	537A	Desk Stand
RK345	Microphone Winder				



Polar Pattern



Frequency Response

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