



SM 900C

Condenser Microphone



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1. Introduction

Thank you for buying the Studiomaster Professional SM 900C Condenser Microphone. To ensure maximum performance and safety, please follow this instruction manual carefully. Please retain this manual for future reference.

For any complaint, feedback or testimonials please contact our distributor / dealer.

2. Features at a Glance

- Large gold-plated diaphragm condenser microphone.
- Low self noise, for great reproduction of sound.
- 3 Polar Patterns: Uni, Bi & Omni directional, with 3 way selectivity switch.
- Low Cut & -10dB Sensitivity Switch.
- Gold Plated 3-pin XLR output connector
- Ideal for stage performances, recording studios, broadcasting stations etc.

3. Product Components

- Microphone....x 1
- Shock Mount Stand....x 1
- Pop Filter Foam....x 1

4. Product Usage

4.1 Power Supply:

- This microphone requires +48V Phantom Supply to operate. Inadequate power supply may result poor performance & reduced dynamic range.
- If your mixer does not have provision for phantom supply, please use an external phantom supply unit like the Studiomaster Professional Phantom 11.
- Always mute the sound reinforcement system before you switch on the phantom power supply.


4.2 Cables:

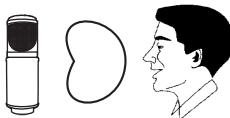
Make sure good quality, low noise shielded cables are used. Good cables ensure good signal integrity.


4.2 Directivity:

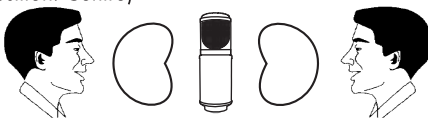


- With the selectivity switch on the front you can change the 3 polar patterns. The side having the selectivity switches is the front side in the cardioid polar pattern mode.

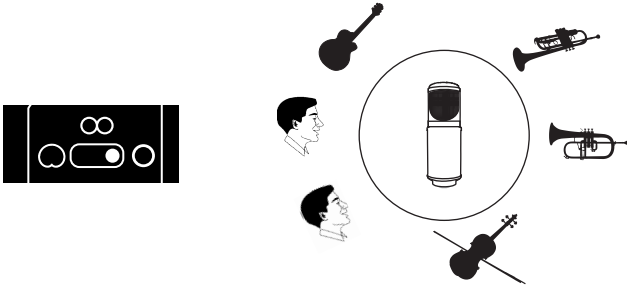
 **Uni-Directional - Cardioid:** This mode can be used to pick a specific instrument or source. This mode can be ideally used for vocal, guitars, violins, sitars etc. (Switch Position: Left)



 **Bi-Directional – Figure 8:** This mode can be used to pick up multiple instrument or source. This mode can be ideally used for choirs.(Switch Position: Centre)



Omni-Directional – Omni: This mode can be used to pick up sound sourced from all sides of the microphone. This mode can be used to pick ambient signals of an environment. This mode may also introduce feedback, make sure it is placed away from speakers etc (Switch Position: Right)



4.3 Low Cut & -10db Level Attenuation:

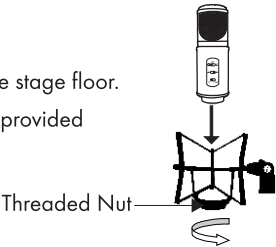
- Low Cut Mode: This mode can be used to minimize Pops, Thump & Low Frequency Hums sounds.
- Flat: This mode simply bypasses all kind of attenuation. Use this mode for a fuller & more natural tone.
- -10dB Attenuation: This mode attenuates the incoming signal by -10dB. It can be used to pick up sources that have High Sound pressure levels & also to decrease sensitivity of the microphone.

4.4 Gain Setting:

Adjust gain on the mixing console so that the peak LED lights up only occasionally. Too much gain can lead to distortion.

4.5 Microphone Mounting:

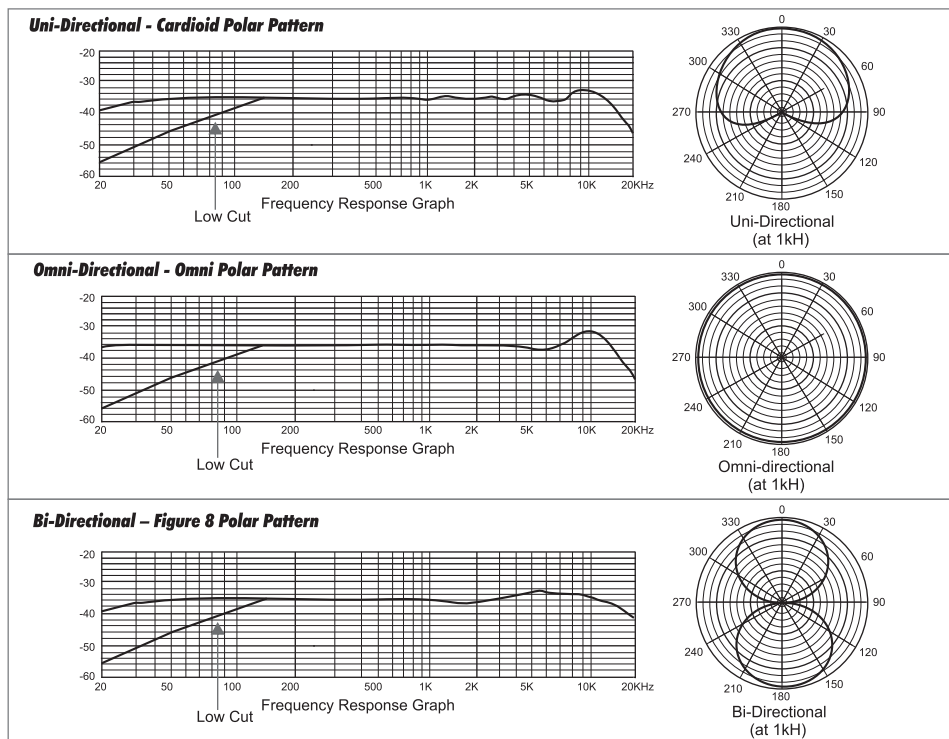
The SM 900 C is supplied with a shock mount to isolate it from the stage floor. Place the microphone in stand & secure the microphone with the provided threaded nut.



5. Technical Specifications

Transducer Type	Pressure Gradient Transducer
Polar Pattern	Uni/Bi/Omni-directional
Frequency Response	20Hz-20kHz
Sensitivity	-36dB±2dB (0dB=1V/Pa at 1kHz)
Output Impedance	150Ω±20% (at 1kHz)
Load Impedance	≧ 1000Ω
Self Noise	15dB A
Max. Input SPL	135dB (at 1kHz ≧ 1% T.H.D)
S/N Ratio	79dB
Electrical Current	3mA

6. Frequency Response Curve



7. Product Care Instructions.

- Do not drop the microphone this could severely damage the product.
- Please keep this product away from direct sunshine & Rain.
- Please keep this product away from magnetic or electromagnetic fields, it could affect product performance.
- Please disconnect from power supply when the product is not being used for a long time.
- Do not open any of the components yourself, for repairs please get in touch with your retailer.
- Please read the owner manual before using this product.
- Please place product in flight case while transporting.

* Design and specification are subject to change without notice

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