



NADY SCM SERIES

USER GUIDE

SCM 1000 Studio Condenser Microphones

Congratulations on purchasing the Nady SCM 1000 FET Condenser Microphone. This superior microphone is perfect for recording studio vocals, acoustic instruments, orchestras and choral groups, ambient instrument audio, and many live sound applications. Powerful and versatile, the SCM 1000 meets the stringent requirements of even the most demanding digital recording and live broadcasting applications.



This manual covers the operation of the SCM 1000 and the optional phantom power supply SMPS-1. To take full advantage of the superb features of this microphone, and to enjoy long and trouble-free use, please read this user's guide carefully.

UNPACKING, INSPECTION, STORAGE AND TRANSPORT

Your SCM 1000 microphone was carefully packed at the factory, and the shipping carton was designed to protect the unit during shipping. Please retain this container in the highly unlikely event that you ever need to return your microphone for servicing. The optional SMCC-2 aluminum carrying case is highly recommended for convenient and safe transport or permanent storage. It has roomy compartments for the SCM 1000 and all accessories, including XLR cables.

STANDARD ITEMS SUPPLIED

SCM 1000 microphone
User Guide
Warranty card
Leatherette pouch

OPTIONAL ACCESSORIES

48V phantom power supply (SMPS-1)
Foam Windscreen (FW-1/1000)
Spider elastic suspension shock mount (SSM-3)
Aluminum flight case (SMCC-2)

FEATURES

The SCM1000 offers transformerless output and true condenser design (element constantly biased by the pre-amp) for exceptionally low self noise and increased dynamic range, enhanced low and high end response with improved linearity across the frequency range and maximum SPL capacity. It features a large dual diaphragm capsule (1.1 inch) and selectable low cut filter, 10dB attenuation pad and 3 polar patterns: omni, cardioid and figure 8. The capsule is hand tooled from brass and features a 3-micron gold-evaporated on Mylar diaphragm for maximum sensitivity, long life, detail and tone. The capsule also utilizes a specially designed gold-plated center-terminated element, which creates a gentle extension of the top octaves and enhanced-accuracy transient response. The SCM 1000 uses a carefully selected Field Effect Transistor (FET), specially chosen for its low distortion and superior signal-to-noise ratio.

(Note: For optimum performance, it is best to let the microphone warm up for 5 to 10 minutes)

The SCM 1000 is manufactured with the finest materials and features a machined housing with advanced internal shock mount construction for the highest structural integrity and rugged reliability. It requires 48V phantom power to operate, typically supplied by the microphone pre-amplifier or mixing console. The optional Nady SMPS-1 phantom power supply can also be used.

WARNING

The capsule is the heart of the condenser microphone. If it becomes dirty or wet, the sound will be degraded. Never spray any liquid on the microphone head. Always use a foam windscreen if you talk or sing close to the microphone grill screen.

USING THE MICROPHONE SHOCK MOUNT

The SSM-3 spider shock mount is available as an option for the SCM 1000. It uses an elastic suspension to isolate the Microphone from vibration, thereby lowering noise transmitted to the microphone from the stand. This is a useful tool in many situations, such as when the performer is tapping his or her feet, or when there is noise pickup from the rumbling of traffic outside of the building. The disadvantage of using the shock mount is that the weight of the microphone may make it drift in the elastic suspension, so mic placement may take a little longer.



To insert the SCM 1000 into the SSM-3 shock mount, pinch close the levers on the sides of the mount to the open position, then slide the microphone into place.

USING THE FOAM WINDSCREEN

The FW-1 foam windscreen is available as an option for the SCM 1000. This windscreen fits over the grill portion of the microphone and is designed primarily to decrease bass rumble (from wind noise pickup) during outdoor live or recording use. It is also useful in keeping mouth spray out of the microphone head. The FW-1 or other windscreen should be used whenever someone is close miked to both protect the microphone and to also eliminate "popping" sounds from percussive breath sounds.



(Note: Be aware that the foam windscreen will slightly attenuate the high frequency response of the microphone.)

CONNECTING THE SCM 1000

The SCM 1000 can be used in live sound reinforcement and broadcasting and in studio or live recording. It must be powered by 48V phantom power (such as supplied by the optional Nady SMPS-1 phantom power supply or a mixing console with phantom powering), and amplified by a microphone pre-amp (such as built into a mixer, or a stand-alone unit).

(Note: Make sure to set the pre-amp to the proper gain level—too much gain may distort subsequent amplifiers and too little may result in a noisy signal)

The SCM 1000 can be connected to your mixer or phantom power supply using a standard balanced 3-pin XLR microphone cable. Before connecting to a mixer directly, turn the channel to which you're connecting to its lowest gain setting. If you are using the Nady SMPS-1 Phantom Power Supply, connect in the following order:

1. Connect the SCM 1000 to the SMPS-1
2. Connect the SMPS-1 Signal Output to your mixer
3. Connect the SMPS-1 to the AC power supply (115—230VAC)
4. Turn on the SMPS-1 Power ON/OFF switch
5. Slowly turn up the channel gain in your mixer to the desired level



SERVICE

(U.S.) Should your Nady microphone require service, please contact the Nady Service Department via phone at (510) 652- 2411 or e-mail at service@nadywireless.com

(INTERNATIONAL) For service, please contact the Nady distributor in your country through the dealer from whom you purchased this product.

Do not attempt to service this unit yourself as it will void your warranty

Date of purchase _____ Serial # _____
Dealer's Name _____
Street _____
City _____ State _____ Zip _____

SCM 1000 SPECIFICATIONS

Type: True condenser pressure-gradient microphone with 1.1 inch diaphragm and FET pre-amplifier

Polar pattern: Selectable Cardioid, omni-directional and figure 8

Controls: Selectable low-cut filter and 10dB pad

Open circuit sensitivity: 10mV/Pa=-40dBV (0dBV=1V/Pa)
-10dB attenuation externally selectable

Frequency range: 20 to 20,000Hz

Rated output impedance: < 200 Ohms

Recommend load impedance: ≥1000 Ohms

Max. SPL (1% THD @ 1000Hz): 134dB

Equivalent noise level to DIN 45405(CCIR468-2): 26dB

IEC 268-4(A weighted): 18dB-A

S/N ratio re 1Pa: 76dB

Power requirement: +48VDC phantom power

Current consumption: < 3mA

Ambient temperature range: 14°F to 140°F(-10°C to +60°C)

Relative humidity range: 90%(68°F, 20°C), 85%(140°F, 60°C)

Connector: 3-pin XLR (gold plated)

Phasing: Positive voltage on pin 2 relative to pin 3

Mic cable: 3-pin XLR standard cable (not supplied)

Size: Diameter: 2.1" (55mm), Length: 6.5" (165mm)

Net weight: 15oz (430g)

Specifications and design subject to change without prior notice for improvement purposes