

# **NADY STARPOWER™ SERIES**

## **SP-4C Dynamic Microphone**

**Congratulations on purchasing the Nady SP-4C Neodymium Dynamic Microphone! This versatile, professional quality microphone is designed to provide top performance in all live stage and public address applications. Its true, transparent sound also makes the SP-4C a valuable recording tool.**

### **USING YOUR SP-4C**

The SP-4C can be used with any standard mixer, powered mixer/amplifier, or mic preamp. Using either an XLR to 1/4" phone plug low impedance cable included, connect the female XLR end to the SP-4C, and the 1/4" phone plug end to your equipment.

Depending on the application, the SP-4C can either be handheld or mounted on a microphone stand with a standard mic clip.

Be aware of the proximity effect (an increase in bass response) when the mic is placed close to the mouth or instrument. This may or may not be desirable. Experimenting with the position of the mic with respect to the audio source will ensure the optimum results you are seeking in any given application. Also, never place your hands over the ballscreen of the mic during use, as this can degrade the performance.

If the microphone is placed too near a speaker, an unpleasant howling effect (acoustic feedback) may occur. Although all microphones are prone to feedback to some extent, those with a unidirectional polar pattern (such as the SP-4C) are specially designed to accept only signals from the audio source directly in front of the mic cartridge. Thus, the cardioid pattern of the SP-4C ensures that it will deliver only the desired audio in front of the mic, rejecting the unwanted audio from the rear, even in noisy ambient conditions with high sound pressure levels from the PA. and monitor speakers. This means that feedback will be greatly minimized with the SP-4C in all live performance miking applications.

Some useful ways in which to totally eliminate annoying feedback include: experimenting with mic positions with respect to the speakers, decreasing speaker volume (whenever possible), and adjusting the equalization of the mic audio with the mixer.

### **PRECAUTIONS AND CARE OF YOUR SP-4C**

- The microphone should never be dropped or subjected to extreme shock. Store only in a padded case to protect it during transport.
- Keep the microphone away from extremely high temperatures (above 140°F or 60°C )and humidity. Avoid leaving the microphone in direct sunlight for long periods of time.
- When using the microphone outdoors, avoid getting it wet.
- After use in a high-moisture application such as a stage performance, wipe off the microphone with a dry cloth and permit it to air dry. Do not store the unit in a closed space (e.g., a plastic bag) until all moisture has evaporated.
- To protect the mic cartridge and ensure the longest possible useful life, it is highly recommended that for vocal applications, an external foam windscreens be used over the ball grille. This will prevent the buildup of saliva and perspiration on the cartridge diaphragm, which degrades performance and shortens the useful life of the microphone. Such a wind "sock" will also eliminate wind noise when the mic is used in a windy outdoor environment.

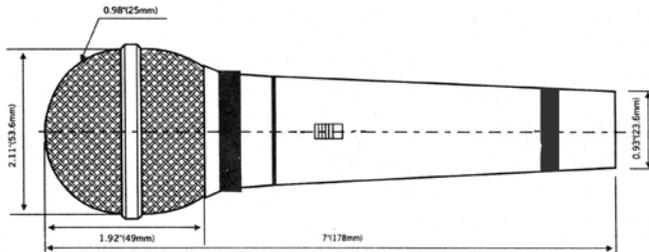
## Special Features

- Linear full-range response with crisp mid-range presence for optimal clarity and punch — a perfect all-purpose, versatile stage and recording mic
- Rugged, all-metal construction for maximum reliability — featuring a zinc die-cast case and steel mesh windscreen with anti-dent ring
- Powerful neodymium mic element for highest output without noise-cuts through even the loudest sound-pressure-level situations without compromising sound
- Ultra-light aluminum humbucking voice coil and transformerless design provide noise-free, accurate reproduction across the audio spectrum without distortion
- Tight cardioid polar pattern provides excellent off-axis rejection for superior gain before feedback
- Advanced multi-axis rubber shockmount for element minimizes handling noise
- External on-off switch for easy control of the audio from stage

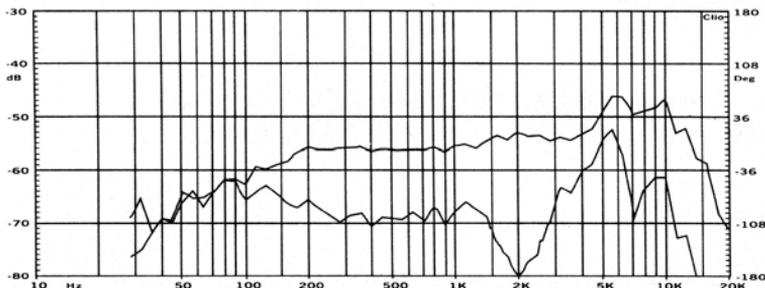
## Specifications

<b>Cartridge type magnet</b> .....	Dynamic, neodymium cartridge
<b>Directivity Pattern</b> .....	Unidirectional Cardioid
<b>Frequency Response</b> .....	50-12,000 HZ
<b>Sensitivity (@ 1KHz,74dB S.P.L.)</b> ....	-76dB $\pm$ 3dB
<b>Impedance</b> .....	250 $\Omega$ (Lo Z)
<b>Maximum S.R.L. (1%T.H.D.)</b> .....	>130 dB
<b>Dimensions</b> .....	2.11" x 7" (53.6 x 178mm)
<b>Weight</b> .....	9.4 oz (266g), without cord
<b>Microphone Cord:</b> .....	XLR to 1/4" (6.3mm) phone plug, 15ft. (4.5m)
<b>Material:</b> .....	Handle: Die-cut zinc, Ballscreen: steel mesh
<b>Controls:</b> .....	Audio on-off switch on handle

## Dimensions



## Typical Frequency Response



## Wiring Diagram— *recommended cable wiring*

