

# Marshall Electronics, Inc.

Product Innovation Through Technical Excellence!

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**Thank you** for purchasing the MXL 4000 Studio Recording Microphone. With proper care, this mic will provide many years of satisfaction. For best results, please take a few moments to review this literature.

## General Characteristics

This microphone has dual 25mm gold-sputtered diaphragms providing multiple pickup patterns and a very open and detailed sound. Large capsule condensers are very sensitive, readily revealing very subtle sonic details. They also tend to pick up sounds outside the pattern more than some designs, which can lead to powerful feedback if you are not careful. We strongly advise experimentation with placement and isolation requirements with the gain initially set low to avoid equipment (and ear) damaging surprises!

## Power Requirements

**IMPORTANT - This unit requires phantom power at 48 volts, +/- 4 volts.** Each unit has been thoroughly checked before shipping, so if you hear no sound, check that the phantom power on your mixer or separate power supply is switched on!

## Isolation Mount

The high isolation shock mount may shift during shipping. Simply shift the elastic bands to center the microphone in the assembly. Be sure that the wire clamp does not rest on the chassis of the mount, as this impairs mechanical isolation. Slide the mount all the way to the rim of the microphone grill for the most secure hold.

## Microphone Cables

The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphones will sound poor if the interconnect cable allows noise to enter, or causes distortion and loss of information.

## Care

Dust and foreign material can degrade the performance of a microphone over time so always store the unit in its box. For vocals closer than 3", use a "**popper stopper**" or a **foam windscreen** to avoid getting moisture on the diaphragm as this can substantially degrade the microphone's performance. Store the microphone in its original packaging in a cool, dry place along with the included packet of silica gel.

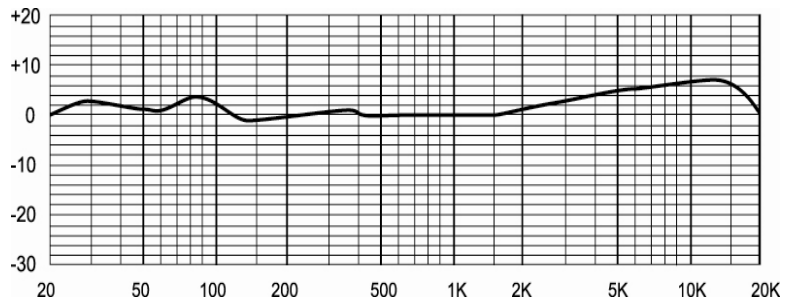
## Patterns

**Always turn down levels before switching patterns on microphones.**

The MXL 4000 has three pickup patterns selectable by use of the 3-position switch on the front of the microphone:

1. Cardioid is the most common pattern for recording vocals or instruments as all the sound is picked up by the front of the microphone.
2. Omni which is used for ambient or room micing or to record a more natural sounding instrument. The microphone picks up from all sides.
3. Figure Eight which is used for interviews or 2 people singing into opposite sides of the microphone. The microphone picks up from the front and rear in the figure eight position.

<b>Type:</b>	25mm, six micron condenser pressure gradient diaphragm
<b>Frequency Response:</b>	20-20KHz
<b>Polar Pattern:</b>	Cardioid / Figure eight / Omni-directional switch-selectable
<b>Max SPL for .5 %THD</b>	130 dB
<b>Sensitivity</b>	15 MV/pa
<b>Output impedance</b>	200 ohms
<b>S/N Ratio:</b>	74dB (Ref. 1 PA, A weighted)
<b>Equivalent Noise Level:</b>	20dB (A weighted IEC 268-4)
<b>High Pass Filter:</b>	6dB/octave, 150HZ
<b>Preattenuation Switch:</b>	0/-10dB
<b>Power Requirements:</b>	48V phantom power (+- 4V)
<b>Weight:</b>	1.60 lb
<b>Dimension:</b>	59 x 240mm
<b>Metal Finish:</b>	Blue/Nickel



## Warranty

Marshall microphones are guaranteed against defects in material and workmanship for three years from date of purchase. Should you encounter any problem with this unit, promptly contact the company you purchased it from for assistance. The original dated sales receipt will be necessary for any warranty claim. Do not send any unit directly to us without prior authorization from our service department! Warranty coverage is limited to repair or replacement (at our option) of the microphone, and does not cover incidental damages due to use of this unit, nor damage caused by accidental misuse of this product.