

# Marshall Electronics, Inc.

*Product Innovation Through Technical Excellence!*

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**Thank you** for purchasing the MXL Recording Pac Plus. Your purchase includes the MXL 2003 studio recording microphone and the MXL 603 instrument microphone. With proper care, these mics will provide many years of satisfaction. For best results, please take a few moments to review this literature.

## **MXL 2003 Studio Recording Microphone**

### **General Characteristics**

This microphone has a 1.06" gold-sputtered diaphragm and a very open and unconstrained cardioid pickup pattern. 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 hearing) damage!

### **Power Requirements**

**IMPORTANT** - This unit requires phantom power at 48 volts, +/- 4 volts. Each unit has been thoroughly checked before shipping, so if you do not hear sound, check that the phantom power on your mixer or separate power supply is switched on!

### **Isolation Shockmount**

The high-isolation shockmount 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.

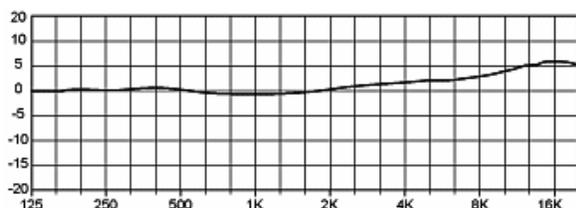
### **Microphone Cables**

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. Use only the best microphone cable your budget will allow.

### **Care**

Dust and foreign material can degrade the performance of a microphone over time so always store the unit in its case. 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.

<b>Type:</b>	27mm gold sputtered, 3 micron diaphragm
<b>Frequency Response:</b>	20-23KHz
<b>Polar Pattern:</b>	Cardioid
<b>Sensitivity:</b>	16MV/pa
<b>Output Impedance:</b>	150 ohms
<b>Max SPL:</b>	130 dB , 140 dB w/-10dB cut
<b>S/N Ratio:</b>	76dB (Ref. 1 PA, A weighted)
<b>Equivalent Noise Level:</b>	18dB (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>Metal Finish:</b>	Black
<b>Weight:</b>	530 g
<b>Dimension:</b>	55 x 195mm
<b>Metal Finish:</b>	Black



## MXL 603s Instrument Condenser Microphone

### General Characteristics

This microphone has a twenty millimetre gold-sputtered diaphragm and a fixed cardioid pickup pattern. Condenser microphones 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) damage!

### Power Requirements

**IMPORTANT - This unit requires phantom power at 48 volts, +/- 4 volts.** Each unit has been thoroughly checked before shipping, so if you do not hear sound, check that the phantom power on your mixer or separate power supply is switched on!

### Microphone Cables

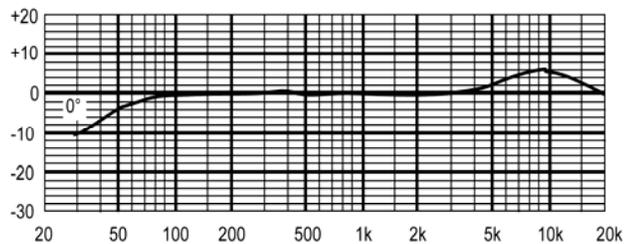
The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphones will sound poor if the interconnect cable allows noise to enter, or causes distortion and loss of information. Use only the best microphone cable your budget will allow.

### Care

Dust and foreign material can degrade the performance of a microphone over time so always store the unit in its case. Remove fingerprints from the exterior with a clean soft cloth.

### TECHNICAL DATA

Type: Condenser pressure gradient mic with large 22mm diaphragm  
Frequency Range: 30Hz-20kHz  
Polar Pattern: Cardioid  
Sensitivity: 10mV/Pa  
Impedance: 200 ohms  
S/N Ratio: 80dB (Ref. 1Pa A-weighted)  
Equivalent Noise 18dB(A weighted IEC 268-4)  
Max SPL for 0.5% THD: 134dB  
Power Requirements: Phantom Power 48V  $\pm$ 4V  
Current Consumption: <3.0mA  
Size: 22mm x 135mm  
Weight: 130g  
Metal Finish: Silver



### Warranty

Marshall Microphones are guaranteed against defects in material and workmanship for three years from date of purchase (1 year tube mics). 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.