

# Marshall Electronics, Inc.

*Product Innovation Through Technical Excellence!*

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**Thank you** for purchasing the MXL 993 Instrument Condenser microphone Pair. With proper care, these mics will provide many years of satisfaction. For best results, please take a few moments to review this literature.

## General Characteristics

This microphone has a twenty-two 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) 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!

## Microphone Cables

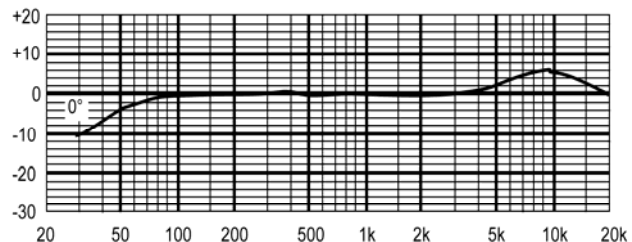
The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphones will sound poor if the interconnect cable allows noise to enter, or causes distortion and loss of information. Use only the best microphone cable your budget will allow.

## 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 20 mm 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)                                 |
| High Pass Filter:   | 6dB/octave, 100HZ switchable                               |
| Attenuation Switch: | 0/-10dB  |
| Max SPL for         |  |
| 0.5% THD:           | 134dB  |
| Power               |  |
| Requirements:       | Phantom Power 48V $\pm$ 4V                                 |
| Current             |  |
| Consumption:        | <3.0mA   |
| Size:               | 24mm x 215mm   |
| Weight:             | 200g   |
| Metal Finish:       | Champagne  |



## 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.