

# Marshall Electronics, Inc.

*Product Innovation Through Technical Excellence!*

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**Thank you** for purchasing the MXL 990S Condenser 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 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. **It is strongly advised to use a mesh pop-filter** to avoid moisture from damaging the capsule.

## 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! **This microphone will not operate without supplying this external power.**

## Microphone Cables

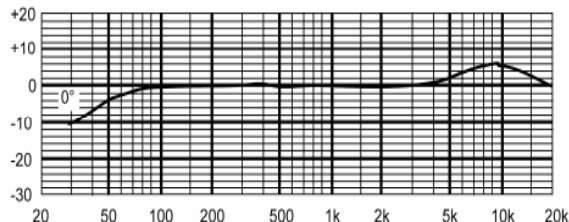
The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphones will sound poor if the interconnect cable allows noise to enter, or causes distortion and loss of information. Use only the best microphone cable your budget will allow.

## 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 damp soft cloth. Clean the gold contacts occasionally with a de-oxidant/cleaner.

## Data

Type:	Condenser pressure gradient mic with large 20 mm. diaphragm capsule
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
High Pass Filter:	6dB/octave, 150HZ
Attenuator Switch:	0/-10dB
Power Requirements:	Phantom Power 48V $\pm$ 4V
Current Consumption:	<3.0mA
Size:	60mm x 132mm
Weight:	470 g
Metal Finish:	Champagne



## Warranty

Marshall microphones are guaranteed against defects in material and workmanship for **one** year 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.