



770



Pressure-Gradient
Condenser Microphone

Marshall Electronics

Professional Audio Division

Phone: 310-333-0606 ■ 800-800-6608 ■ Fax: 310-333-0688

www.mxlmicro.com ■ sales@mxlmicro.com

Thank you for choosing the MXL 770 Condenser microphone. With proper care, this mic will provide many years of satisfaction. To get the best results, please take a few moments to read this manual. Enjoy your microphone!

The MXL Team

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.

Contents

Unpack your MXL 770 microphone carefully and verify that all of the following items are included:

MXL 770 microphone • Shock mount • Carrying case

If any of these items are missing or damaged, contact the company from which you purchased the microphone.

Bass roll-off switch

The 770 features a bass roll-off switch to help reduce proximity effect. Proximity effect is distortion that often occurs when a sound source is too close to the mic. Some microphone patterns boost bass as you get closer to the microphone; cardioid mics, for instance, tend to boost bass. The bass roll-off switch reduces the low frequencies for a more full range sound.

-10dB Switch

The 770 can be used in very loud sonic environments without significant distortion. If you hear distortion from the microphone, engage the “-10dB pad” on the rear of the microphone to the -10dB position. You may also move the microphone farther away from the sound source.

Power Requirement

The MXL 770 requires 48V phantom power ($\pm 4V$). If no sound is picked up by the microphone, make sure that the phantom power on your mixer or separate power supply is switched on.

Microphone Cable

The microphone cable can have a profound effect on the sound of any microphone. Even the finest microphone will sound poor if the interconnect cable allows noise to enter or causes distortion and loss of information. We recommend that you use the best microphone cable that your budget will allow.

Care

Dust and foreign material can reduce the performance of a microphone over time, so you should store the MXL 770 in its case when not in use.

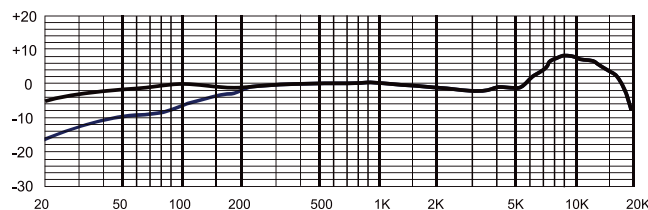
Shock Mount

The MXL shock mount can shift in shipment. Simply shift the nylon 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 for the most secure hold.

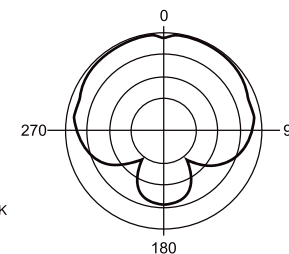
Specifications

Type	Pressure-gradient condenser mic.
Diaphragm	6 micron gold-sputtered
Capsule Size	22mm/.87in.
Frequency Response	30 Hz–20 kHz
Polar Pattern	Cardioid
Pre-Attenuation Switch	0 dB, -10dB
High Pass Filter	6 dB/octave @ 150Hz
Impedance	150 ohms
Sensitivity	15 mV/Pa
Equivalent Noise	20 dB (A-weighted IEC 268-4)
S/N Ratio	74 dB (Ref. 1 Pa A-weighted)
Max SPL for 0.5% THD	137 dB
Power Requirement	48V phantom power ($\pm 4V$)
Current Consumption	< 3.0mA
Size	59mm x 158mm/2.32 in. x 6.22 in.
Weight	1 lb/453.59g
Metal Finish	Black with black grill

Frequency Chart



Polar Pattern



Warranty

MXL microphones are guaranteed against defects in materials and workmanship for one year from the date of purchase. If you encounter any problem with this unit, promptly contact the company from which you purchased it 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.