

Origins and Manufacture

The Joemeek JM37 Series is manufactured under the supervision of PMI Audio. All mics are tested for quality control.

Warranty

The JM37 Series is warranted from defects for a period of 1 year, parts and labor. The JM37 Series meets all requirements for electronic equipment in all countries of export

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JM37

JM37DP



Thank you for purchasing a JOEMEER JM37 series microphone. With proper use and care, your JM37 will give you years of quality recording. Please read the following instructions carefully, and enjoy using your JM37.

JM37 Description

The JM37 is a microphone in the tradition of classic studio microphones. It is a large sized diaphragm true capacitor microphone with a fixed Cardioid head (JM37-DP is Dual Pattern: Omni and Cardioid). This feeds the FET type pre amplifier for low noise. The output balancing is handled by a solid state FET output.

The capacitor element is manufactured to the classic 'concentric electrode' design, which provides smooth extended frequency response. Quality is further enhanced by utilizing dynamic feedback at the capacitor element. This original technique eliminates distortion, which can occur when using this type of microphone at high volume levels.

The capacitor membrane is micro fine Mylar with gold sputtering, voltage polarized by phantom power. The microphone body is made of machined brass; Connection is via screened balanced audio cable with 3 pin XLR connectors,

Care of Your JM37

Although the 'Mylar' membrane on the capacitor is more robust than the gold foil used by the German originals of the 1930s, it is still extremely fine and liable to damage if mishandled. There are two safety factors that MUST be remembered when handling these

- 1) Keep the microphone dry.
- 2) Avoid wind or air blasts directly onto the capsule.

NEVER blow into the capsule. This is the most important single rule for capacitor microphones. Damage caused by blasts of air on the capsule is often permanent and requires the complete replacement of the capacitor element (microphone head). So, never use the microphone in the open air without substantial wind protection. Use of a pop shield or windscreen in windy environments is essential. With instrument recording indoors, unprotected use will give the best sound.

All electronic equipment should be kept dry, but it is even more important to avoid any damp conditions when using high quality capacitor microphones. Damp can cause partial short circuits in the polarizing voltage, which may cause crackling noises and low output. The JM37 Series are capable of handling high

sound volume levels so they can be used safely close to musical instrument amplifiers. Close miking of instrument cabinets often sounds best, so it is good to take advantage of the JM37 high dynamic capability in these situations. It is also a very low noise microphone and suitable for low level or distant miked instrument recording.

For voice recording, avoid singing directly into the capsule unless an efficient pop shield is used. We suggest the Studio Projects SP-MPF Pop Screen. Sing about two to six inches from the front face of the microphone.

Problems

Should the microphone accidentally become damp and fail to operate properly (start crackling, or go very quiet) then place it in a warm and very dry environment for 24 hours. The ideal environment is an airing cupboard, or under a 100 watt light bulb for a couple of hours.

The JM37 Series is extremely resistant to physical damage. If the microphone fails to work after being dropped, it should be returned in adequate packing to the supplier. A double test and inspection system means that manufacturing faults are almost unknown but should any fault occur, it will be repaired (or replaced) free of charge excepting where the fault has been caused by physical damage.

Connecting Up

Using a high quality balanced and screened audio cable, connect the microphone head to the microphone amplifier input and switch on the 48V phantom power. NOTE: the microphone will not operate unless 48V phantom power is provided. A few seconds is often needed for the microphone to reach optimal performance, but be sure to have all audio levels off for the first 30 seconds during power up.

Using the JM37

The JM37 Series gives a very true sound, meaning that the quality of a recording will depend on microphone placement, and of course, the performer and the surroundings. The response of

the microphone is CARDIOID for the JM37, and the JM37-DP has two patterns, both CARDIOID and OMNI; CARDIOID means that it is much more sensitive to sounds from the front than from the rear, and OMI picks up all around the capsule. It is important to remember this when miking up instruments that project sound from different parts; i.e. drums, piano, reed instruments etc. The mic placement will affect the sound quite a bit, so do plenty of experimenting before a take. Remember that different areas of an instrument often produce very different sounds. Instrument miking is a highly creative business and a good technique can make all the difference to the final mix. Once again, do plenty of takes, and don't be afraid to experiment with the patterns on the JM37-DP. The JM37 Series is an extremely capable recording tool: used properly, professional results will be achieved.

Pre amplification is also important to improve the microphone's sounds. Quality systems like the new Joemeek threeQ, sixQ, oneQ, and TwinQ can optimize the JM37's performance.

Specification

Frequency Response Sensitivity
25Hz-20KHz

Sensitivity
16mV/Pa-40+/-2dB (0dB= 1 V/Pa 1000Hz)

Polar pattern
JM37 Cardioid
JM37-DP Cardioid and OMNI with Selectable PAD

Impedance
200 ohms

Equivalent noise level
19dB (A Weighted)

Max SPL for 0.5% THD@1000Hz
128dB

Power Requirement
48V