

PM-100

Cardioid Condenser Microphone



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Product features

- According to the frequency characteristics of human voice, electro-acoustic technology is applied to design and provide a clear reproduction of the original sound. It is especially suitable for professional performances on medium and small stage.
- The cardioid directional pickup can effectively enhance the main sound source and suppress background noise.
- The microphone tube body is made of metal material, with low noise and strong durability.
- High strength anti-slip metal mesh can effectively protect the microphone from damage.
- The sound transmitting unit has the function of air filtration, and can eliminate the breath noise when singing.
- The structure of multi-layer head protection network can strengthen the protection of recording broken sound without affecting the quality of high-pitch sound.
- PM-100 is used in professional sound pickup. It requires 11V to 52V phantom power supply. It can be powered by phantom power on the mixer or by Relacart P-48V1S single-channel phantom power supply.
- The XLRM Cannon output of the microphone is a low impedance balanced output. The microphone's audio signal is eventually output by pins No.2 and No.3 of Duke Cannon, while pin No. 1 is connected by ground wire (shield). The output phase will be placed on the 2 pin on the positive phase level.
- In order to avoid phase offset and distortion, all microphones must be connected with pins in the form of 1-1, 2-2, 3-3.
- Built-in high-pass filter circuit can reduce the jet sound of the microphone when it speaks at close range. It can also reduce the low-frequency noise in the radio environment (such as the engine sound in the outdoor car, the wind sound in the air-conditioning system, etc.), the echo in the room and the mechanical vibration sound.
- Exposure of the microphone to high temperatures may result in gradual and permanent reduction of the output level. It should be avoided to leave the microphone in the sun or to keep it in a place where the temperature is over 43°C for a long time, and extreme humidity should also be avoided.

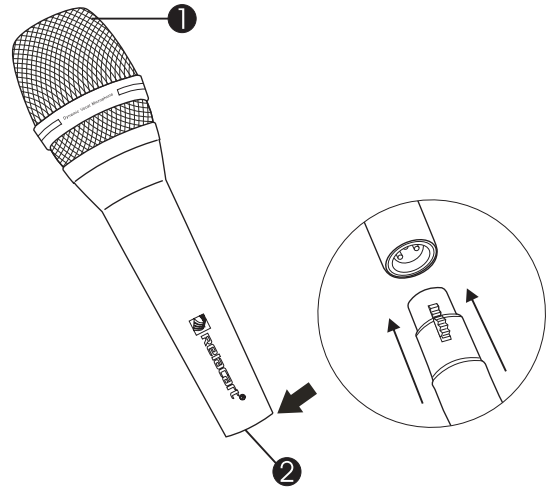
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Specifications

Capsule Type	Backplane polarized electrostatic capacitance type
Polar Pattern	Cardioid Unidirectional
Frequency Respond	50Hz ~ 20KHz
Sensitivity	-44 dB (1V/Pa)
Output Impedance	280Ω
Max withstand sound pressure	120dB, 1KHz at 1%T.H.D.
Dynamic Range(Typical)	115dB, 1KHz at max sound pressure
S/N	>72dB(A), 1KHz at 1Pa
Phantom Power	11-52VDC
Current Consumption	4mA(Typical)
Output Connector	Built-in 3-pin XLR-M
Size(mm)	φ51x190
Weight(g)	Approximately 365

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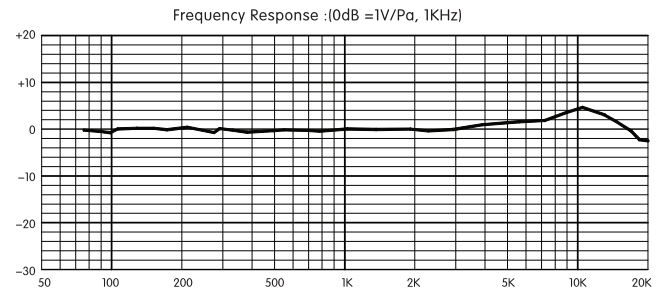
Function introduction



1. Cartridge module: main components of converting sound into the audio signals.
2. Connecting cable interface: connect to the receiver.

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Frequency characteristics



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Directivity

