

Thank you for purchasing the Marin Ranger **DM-11PRO** Dynamic Microphone. The **DM-11PRO** dynamic microphone combines highest quality standards at an affordable price and best results in audio performances for both vocal and instrument miking applications. The **DM-11PRO** is a hand held dynamic microphone that excels in both live performance and recording applications. The features of the **DM-11PRO** will make it a valuable tool for your recording and live performance.

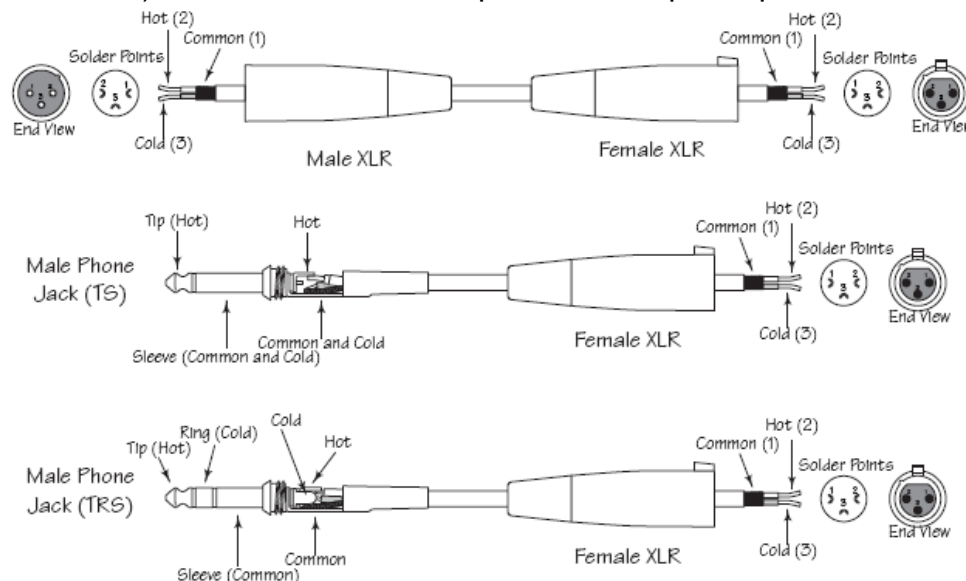
Features

The Marin Ranger **DM-11PRO** utilizes state-of-the-art microphone technology and is engineered to the finest detail. Here are some of its main features:

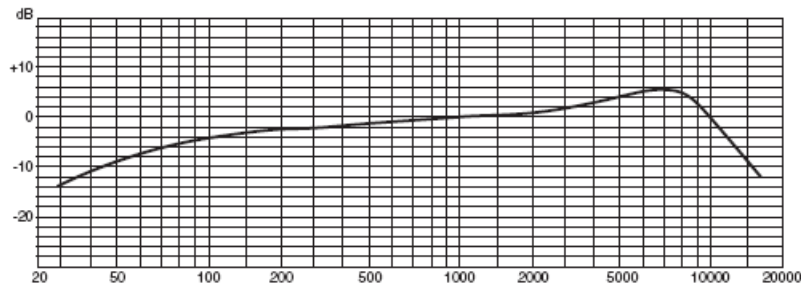
- Tight cardioid polar pattern minimizes feedback problems and effectively rejects signals not originating directly in front of the mic capsule.
- Extended range frequency response for optimum reproduction and exceptionally clear, crisp sound.
- Special shock-mounting allows movement of the mic element to greatly reduce handling noise.
- Rugged zinc alloy die-casting case ensures reliable performance in even the most demanding environments.
- Lightweight and compact, the **DM-11PRO** can be mounted on any standard microphone stand or can be easily handheld for long periods without inducing fatigue.
- Included carrying bag for convenience when transporting **DM-11PRO** microphones.
- 15" XLR-1/4" Connector microphone cable

Connection

Use a standard microphone cable to connect your **DM-11PRO** to any mixer, mixer/amplifier, or mic preamp. As shown in the wiring diagrams below, connect the female XLR end directly to the **DM-11PRO's** male XLR Input connector and the other end (normally 1/4" connectors, although some mixers use a male XLR end) to the mixer, mixer/amplifier, or mic preamp.

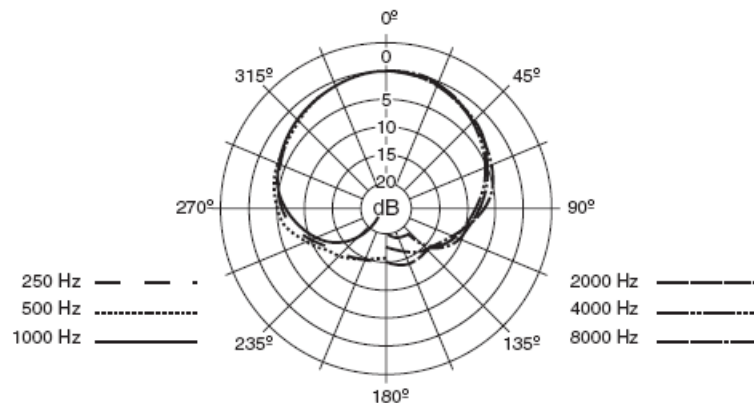


The **DM-11PRO** can be mounted to any standard microphone stand or can be handheld; due to its unique mic element shock mounting, it generates significantly less handling noise than most other microphones. If handheld, take care not to cover the any part of the head grille with your hand. Be aware of a phenomenon called the proximity effect which causes a noticeable increase in low frequencies (bass response) when a microphone is close to the audio source. This can have positive impact—for example; it will cause your voice to sound much fuller when you sing close to the mic than when you sing at a distance. The **DM-11PRO** is specially designed to be used up close, since it provides a built-in windscreen for removal of pops, sibilance and onstage noise. The key to developing the best mic technique is experimentation, along with awareness of the general principle that, the closer your **DM-11PRO** is to a signal source, the greater the bass response.



DM-11PRO Frequency Chart

In contrast, directional cardioid mics are specifically designed to accept mostly signal coming from directly in front, and to reject signal coming from behind or from the side. The cardioid pattern is utilized by the **DM-11PRO** (as shown in the illustration below). For this reason, the **DM-11PRO** excels in environments where there is a good deal of unwanted ambient sound—it delivers those signals originating directly in front of the mic capsule itself while rejecting those that originate from behind. The polar pattern also determines how prone a particular mic is to inducing feedback. Feedback is that characteristic nasty howling sound that occurs when a mic is placed too close to a loudspeaker—the signal from the loudspeaker is fed into the mic, then into the loudspeaker, then into the mic, over and over again until an oscillating tone is generated. Because the cardioid pattern utilized by the **DM-11PRO** is so good at rejecting signal not coming from directly in front of the mic, you'll find that use of the **DM-11PRO** greatly minimizes feedback problems.



DM-11PRO Polar Pattern

DM-11PRO Specifications

- Type: Dynamic
- Frequency Response: 80 Hz - 12 kHz
- Polar Pattern: Cardioid
- Output Impedance: Rated at 500Ω
- Sensitivity: -53 dBV/pa (1.8 mv/pa)
- Connector: 3-pin balanced XLR male
- Dimensions:
 - Head length: 51.5 mm
 - Main unit length: 123.5 mm
 - Total length: 175 mm
- Weight: 250 g