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PROEL DM220

Proel DM220 Dynamic Microphone User Manual

Model: DM220



1. INTRODUCTION AND OVERVIEW

Thank you for choosing the Proel DM220 Dynamic Microphone. This manual provides essential information for the proper setup, operation, and maintenance of your microphone. The DM220 is a vocal microphone featuring a dynamic capsule and a cardioid polar pattern, designed for clear and extended frequency response, particularly transparent in low-mid frequencies. Its ergonomic barrel design ensures comfortable handling.



Image 1.1: The Proel DM220 Dynamic Microphone, shown with its included carrying pouch and microphone clip.

2. KEY FEATURES

- **Transducer Type:** Moving coil dynamic
- **Polar Pattern:** Cardioid, designed to pick up sound primarily from the front.
- **Frequency Response:** 50 Hz - 15 kHz, providing a flat and extended range.
- **Sensitivity:** $-53 \text{ dB} \pm 3 \text{ dB}$
- **Maximum SPL for 0.5% THD:** 135 dB
- **Signal-to-Noise Ratio:** 74 dB
- **Nominal Impedance:** < 600 ohms
- **Recommended Load Impedance:** 1500 ohms
- **Connectors:** 3-pin male XLR for reliable audio connection.
- **On/Off Switch:** Integrated switch for convenient control.
- **Ergonomic Design:** Solid feel and comfortable handling.

3. SETUP INSTRUCTIONS

3.1 Connecting the Microphone

1. Locate the 3-pin male XLR connector at the base of the microphone.
2. Connect a standard XLR cable (not included) to the microphone's connector. Ensure a secure fit.
3. Connect the other end of the XLR cable to an appropriate input on your mixer, audio interface, or amplifier.



Image 3.1: The base of the Proel DM220 microphone, illustrating the 3-pin male XLR connection port.

3.2 Mounting the Microphone

1. Attach the included microphone clip to a standard microphone stand (not included).
2. Gently insert the Proel DM220 microphone into the clip, ensuring it is held firmly.
3. Adjust the microphone stand and clip to the desired height and angle for optimal performance.



Image 3.2: The Proel DM220 microphone securely placed in its accompanying microphone clip.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

The Proel DM220 features an integrated on/off switch for convenient control. To activate the microphone, slide the switch to the 'ON' position. To deactivate, slide it to the 'OFF' position. Always ensure the microphone is off when not in use to prevent accidental sound capture or feedback.

4.2 Microphone Placement

Due to its cardioid polar pattern, the DM220 is most sensitive to sounds directly in front of it and rejects sounds from the sides and rear. For optimal vocal performance, position the microphone directly in front of the sound source (e.g., singer's mouth) at a distance of 2-6 inches (5-15 cm). Experiment with distance to achieve the desired tone and to minimize plosive sounds (P, B sounds).

5. MAINTENANCE

5.1 Cleaning

- Wipe the microphone body with a soft, dry cloth.
- For the grille, use a slightly damp cloth to remove any residue, then dry thoroughly. Do not allow moisture to enter the microphone capsule.
- Avoid using harsh chemicals, solvents, or abrasive cleaners.

5.2 Storage

When not in use, store the microphone in its protective carrying pouch in a cool, dry place, away from direct sunlight and extreme temperatures. This helps protect the microphone from dust, moisture, and physical damage.

6. TROUBLESHOOTING

- **No Sound Output:**

- Ensure the microphone's on/off switch is in the 'ON' position.
- Check all XLR cable connections at both the microphone and the audio input device.
- Verify that the input channel on your mixer or interface is selected and its gain/volume is turned up.
- Test with a different XLR cable to rule out cable failure.
- Test the microphone on a different input channel or device if possible.

- **Low or Distorted Sound:**

- Adjust the gain level on your mixer or audio interface. Too low gain results in weak sound, too high can cause distortion.
- Ensure the microphone is positioned correctly relative to the sound source.
- Check for any obstructions on the microphone grille.

- **Feedback (High-pitched squealing):**

- Reposition the microphone further away from speakers or monitors.
- Reduce the overall volume or the gain of the microphone channel.
- Ensure speakers are not pointing directly at the microphone.

7. SPECIFICATIONS

Specification	Value
Brand	PROEL
Model Name	DM220
Transducer Type	Moving Coil Dynamic
Polar Pattern	Cardioid (Unidirectional)
Frequency Response	50 Hz - 15 kHz
Sensitivity	-53 dB
Signal-to-Noise Ratio	74 dB
Nominal Impedance	< 600 ohms
Recommended Load Impedance	1500 ohms
Connectors	3-pin Male XLR
Special Feature	On/Off Switch, Wired
Power Source	Cable Electric
Item Dimensions (L x W x H)	18 x 5.3 x 5.3 cm
Item Weight	300 Grams

Specification	Value
Recommended Uses	Vocal (Chant)
Compatible Devices	Amplifier

8. WARRANTY AND SUPPORT

Specific warranty information for the Proel DM220 Dynamic Microphone is not provided in the available product details. For warranty claims or technical support, please contact your retailer or the official Proel customer service directly. Keep your purchase receipt as proof of purchase.

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