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> Heil Sound PR 35 Dynamic Microphone User Manual

## Heil Sound PR35

# Heil Sound PR 35 Dynamic Microphone User Manual

## INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Heil Sound PR 35 Dynamic Microphone. Please read this manual thoroughly to ensure optimal performance and longevity of your microphone.

## PRODUCT OVERVIEW

The Heil Sound PR 35 is a professional-grade dynamic microphone designed for vocal live sound reinforcement and studio recording. It features a wide frequency response and a supercardioid polar pattern for excellent off-axis rejection.





Figure 1: Heil Sound PR 35 Dynamic Microphone.

## Key Features

- **Element Type:** Dynamic
- **Polar Pattern:** Supercardioid, providing excellent rear rejection at 180 degrees off-axis (-35 dB).
- **Frequency Response:** 40Hz-18kHz (without filter) and 80Hz-18kHz (with low-cut filter engaged).
- **Output Connection:** Standard 3-pin XLR.
- **Impedance:** 370 ohms balanced.
- **Maximum SPL:** 140 dB, suitable for high sound pressure levels.
- **Construction:** Durable aluminum body.

## SETUP

### Unpacking and Inspection

Carefully remove the microphone from its packaging. Inspect the microphone for any signs of damage. The package should contain the PR 35 microphone and a microphone clip.

### Connecting the Microphone

1. **Mounting:** Attach the Heil Sound PR 35 to a standard microphone stand using the included microphone clip. Ensure the microphone is securely fastened.



Figure 2: Heil Sound PR 35 mounted on a microphone stand.

2. **XLR Cable Connection:** Connect a balanced 3-pin XLR cable (not included) to the microphone's output connector. Connect the other end of the XLR cable to your mixer, audio interface, or preamplifier.
3. **Power:** The PR 35 is a passive dynamic microphone and does not require phantom power. Ensure

any phantom power on the connected input channel is turned off if using with other condenser microphones, though it will not harm the PR 35.

## OPERATING INSTRUCTIONS

### Microphone Placement

The PR 35 features a supercardioid polar pattern, which is highly effective at rejecting sounds from the sides and rear. For optimal performance:

- **Vocal Applications:** Position the microphone directly in front of the sound source (e.g., vocalist's mouth). Experiment with distance to achieve the desired proximity effect (increased bass response when close to the microphone).
- **Instrument Applications:** For instruments, aim the microphone at the desired part of the instrument to capture its characteristic sound.
- **Feedback Control:** Due to its supercardioid pattern, the PR 35 offers excellent feedback rejection. Position stage monitors to the sides of the microphone, not directly behind it, to minimize feedback.

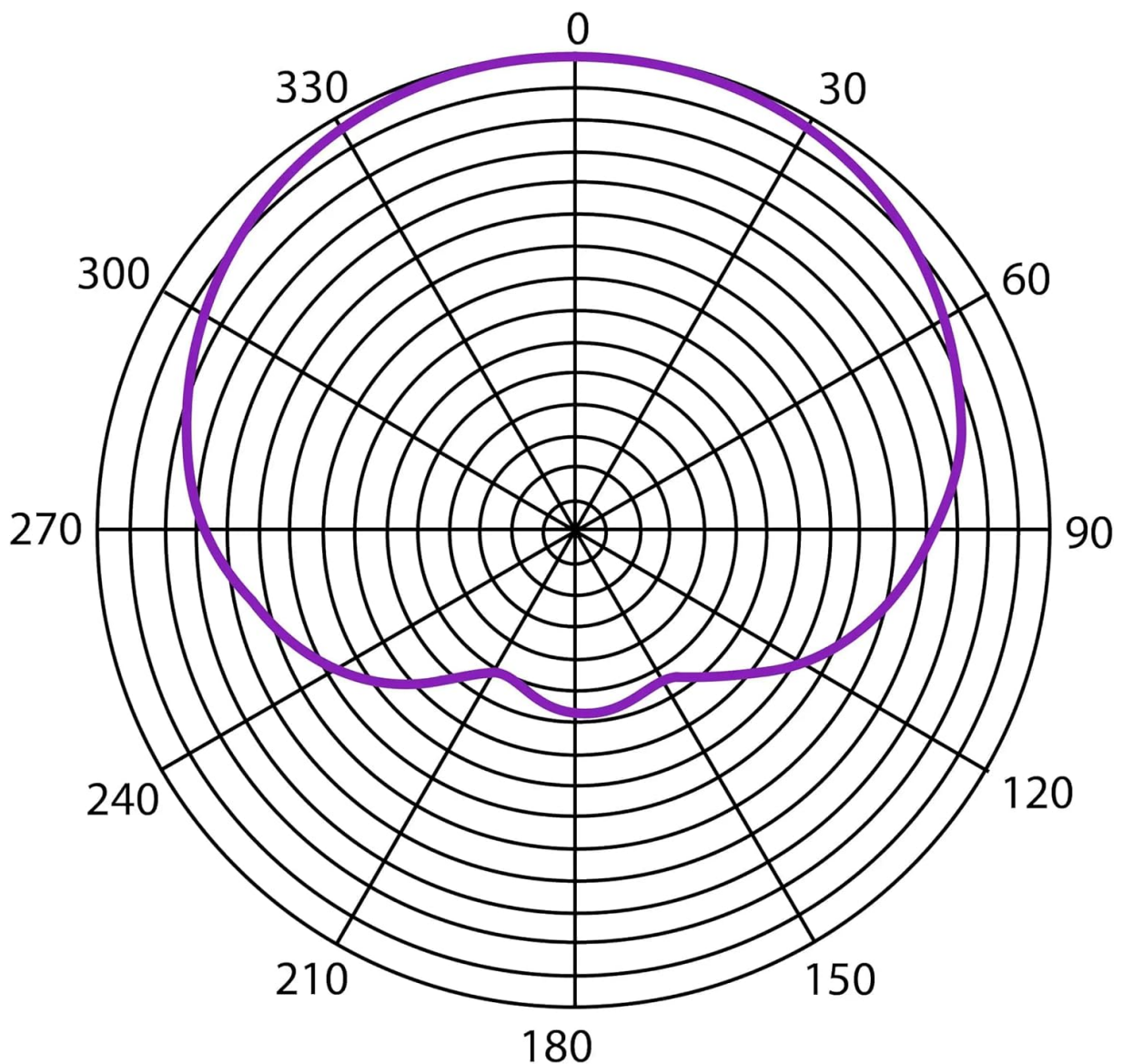


Figure 3: Supercardioid polar pattern of the Heil Sound PR 35, illustrating sound rejection from the sides and rear.

### Frequency Response Switch

The PR 35 includes a switch to alter its low-frequency response. This switch is typically located on the microphone body.

- **"UP" Position (No Filter):** Provides a full frequency response from 40Hz to 18kHz. This setting is generally suitable for most vocal and instrument applications where a rich low-end is desired.
- **"DOWN" Position (Low-Cut Filter On):** Engages a low-cut filter, resulting in a frequency response from 80Hz to 18kHz. This can be useful for reducing unwanted low-frequency rumble, stage noise, or proximity effect, leading to a clearer vocal sound.

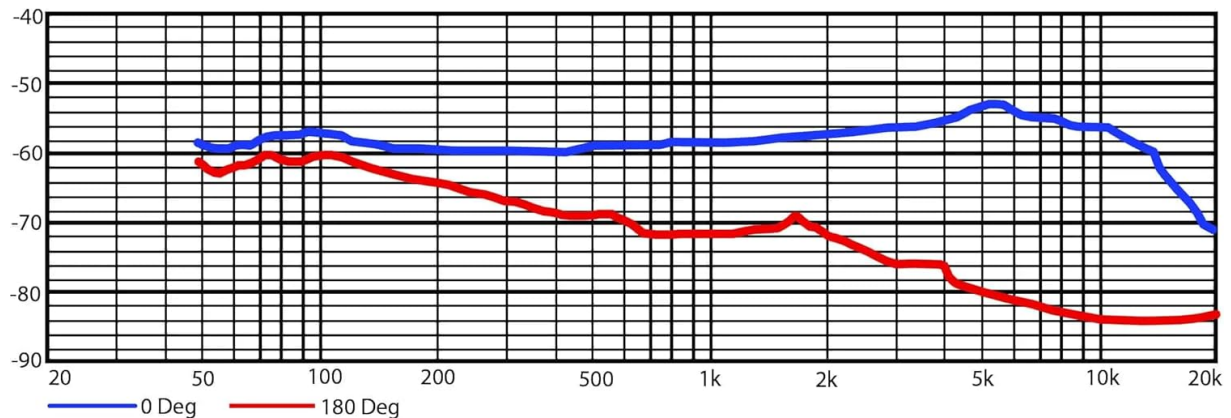


Figure 4: Frequency response curves for the Heil Sound PR 35 at 0 degrees (on-axis) and 180 degrees (off-axis).

## MAINTENANCE

### Cleaning

- **Microphone Body:** Wipe the microphone body with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Grille:** The microphone grille can be carefully cleaned with a soft brush to remove dust or debris. For more thorough cleaning, the grille can often be unscrewed (refer to manufacturer guidelines if unsure) and cleaned with mild soap and water, ensuring it is completely dry before reattaching.

### Storage

When not in use, store the microphone in a protective case or pouch to prevent dust accumulation and physical damage. Avoid exposing the microphone to extreme temperatures or high humidity.

## TROUBLESHOOTING

If you encounter issues with your Heil Sound PR 35, consider the following:

- **No Sound Output:**
  - Check all cable connections. Ensure the XLR cable is securely plugged into both the microphone and the input device.
  - Verify that the input channel on your mixer or interface is selected and its gain is appropriately set.
  - Test with a different XLR cable to rule out a faulty cable.
  - Ensure the input channel is not muted.
- **Low Volume or Weak Signal:**
  - Increase the gain on your mixer or audio interface.
  - Ensure the microphone is positioned correctly and close enough to the sound source.
  - Check the frequency response switch; if the low-cut filter is engaged, it might reduce overall perceived volume for some sources.
- **Excessive Plosives (P-pops) or Breath Noise:**

- Increase the distance between the microphone and the sound source.
- Angle the microphone slightly off-axis from the direct airflow.
- Consider using an external pop filter (not included) for vocal applications.
- **Feedback Issues:**
  - Reposition stage monitors away from the front of the microphone, ideally to the sides.
  - Reduce the gain of the microphone channel.
  - Utilize equalization (EQ) on your mixer to cut problematic frequencies.

If problems persist, contact Heil Sound customer support or a qualified technician.

## SPECIFICATIONS

Feature	Specification
Element Type	Dynamic
Polar Pattern	Supercardioid
Frequency Response (No Filter)	40Hz - 18kHz
Frequency Response (Low-Cut Filter)	80Hz - 18kHz
Rear Rejection @ 180 degrees	-35 dB
Impedance	370 ohms balanced
Output Level	-52.9 dB @ 1 kHz
Output Connection	3-pin XLR
Max SPL	140 dB
Weight	9 oz (0.56 lbs)
Material	Aluminum
Dimensions (L x W x H)	10.5 x 7 x 4 inches (Product Dimensions)
Included Components	Microphone

## WARRANTY INFORMATION

Heil Sound products are covered by a manufacturer's warranty. For specific details regarding the warranty period, coverage, and claims process for your PR 35 Dynamic Microphone, please refer to the warranty card included with your product or visit the official Heil Sound website. Retain your proof of purchase for warranty validation.

## SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Heil Sound PR 35 Dynamic Microphone, please visit the official Heil Sound website or contact their customer service department directly. Contact information can typically be found on the manufacturer's website or in the product packaging.

Official Heil Sound Website: [www.heilsound.com](http://www.heilsound.com)

