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Neumann KMS 105

Neumann KMS 105 Condenser Microphone Instruction Manual

Model: KMS 105 (008455) | Brand: Neumann

1. INTRODUCTION

The Neumann KMS 105 is a high-quality handheld condenser microphone designed for optimal vocal transmission in live stage environments. It offers high acoustic resolution and a smooth frequency response, providing musicians with precise control over their stage performance. Its design minimizes coloration, self-noise, and crosstalk, making it suitable for use with in-ear monitoring systems. The supercardioid polar pattern effectively suppresses sounds from the sides, focusing on the primary sound source. The studio condenser capsule captures vocal nuances with exceptional transparency, wide frequency range, and remarkable resolution, distinguishing it from typical dynamic handheld microphones.



Image: Neumann KMS 105 microphone in a live performance setting, capturing vocals from a musician playing an acoustic guitar.

2. KEY FEATURES

- **Supercardioid Polar Pattern:** Provides excellent off-axis sound rejection, minimizing feedback and isolating the main vocal source.
- **Condenser Capsule:** Delivers high acoustic transparency, wide frequency range (20Hz-20kHz), and detailed vocal reproduction.
- **Low Self-Noise and Crosstalk:** Ensures clean audio, especially beneficial for in-ear monitoring systems.
- **Robust Construction:** Designed for durability and reliability in demanding live performance environments.
- **Matte Black Finish:** Aesthetically pleasing and reduces reflections on stage.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the microphone and its accessories from the packaging. Inspect all components for any signs of damage. The package should include the KMS 105 microphone.

3.2 Connecting the Microphone

1. The KMS 105 requires **48V phantom power** for operation. Ensure your mixer, audio interface, or preamplifier provides this power.
2. Connect a standard **XLR cable** (male to female) to the XLR connector at the base of the microphone.
3. Connect the other end of the XLR cable to an input channel on your mixer or audio interface.
4. Activate the 48V phantom power on the corresponding channel of your audio device.

3.3 Mounting the Microphone

Attach the microphone to a standard microphone stand using the included microphone clip or a compatible shock mount. Ensure the microphone is securely fastened to prevent accidental drops.



Image: Neumann KMS 105 microphone securely mounted on a stand, ready for use.

4. OPERATING THE MICROPHONE

4.1 Microphone Placement

- Position the microphone directly in front of the sound source (e.g., vocalist's mouth) to utilize its supercardioid pattern effectively.
- Maintain a consistent distance from the microphone for stable sound levels.
- Experiment with proximity to achieve desired bass response (proximity effect).

4.2 Gain Staging

Adjust the gain on your mixer or audio interface to achieve a strong signal without clipping. The KMS 105 has high sensitivity, so start with lower gain settings and gradually increase as needed.

4.3 Monitoring

When using in-ear monitors, the KMS 105's low crosstalk and excellent feedback rejection help provide a clear and isolated vocal signal to the performer.



Image: Neumann KMS 105 microphone being held, demonstrating its ergonomic design for performers.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microphone body. For the grille, a soft brush can be used to remove dust or debris. Avoid using liquid cleaners directly on the microphone.
- **Storage:** Store the microphone in its protective case when not in use to prevent dust accumulation and physical damage.
- **Handling:** Treat the microphone with care. Avoid dropping it or exposing it to extreme temperatures or humidity.

6. TROUBLESHOOTING

- **No Sound:**

- Ensure 48V phantom power is activated on the connected channel.

- Check all cable connections (microphone to interface/mixer).
- Verify the gain level on your audio device is appropriately set.
- Test with a different XLR cable to rule out cable failure.

- **Distorted Sound:**

- Reduce the input gain on your audio device.
- Ensure the sound source is not too close to the microphone, causing overload.

- **Excessive Feedback:**

- Reposition the microphone further from speakers or monitors.
- Utilize the supercardioid pattern by ensuring the microphone is pointed directly at the sound source and away from feedback-prone areas.
- Adjust EQ settings on your mixer to cut problematic frequencies.

7. SPECIFICATIONS

| | |
|---------------------------------------|---|
| Model Name | KMS 105 (008455) |
| Brand | Neumann |
| Color | Matte Black |
| Polar Pattern | Super Cardioid |
| Microphone Form Factor | Microphone Only |
| Connectivity Technology | XLR |
| Connector Type | XLR |
| Frequency Response | 20 Hz - 20 kHz |
| Audio Sensitivity | 132 Decibels |
| Signal-to-Noise Ratio | 76 dB |
| Item Weight | 1.08 Pounds (approx. 0.49 kg) |
| Product Dimensions (L x W x H) | 8.2 x 3.3 x 3.25 inches (approx. 20.8 x 8.4 x 8.3 cm) |
| Power Source | Corded Electric (requires 48V Phantom Power) |
| Material | Nylon |
| Recommended Uses | Singing |
| UPC | 696720754448, 615104084551 |

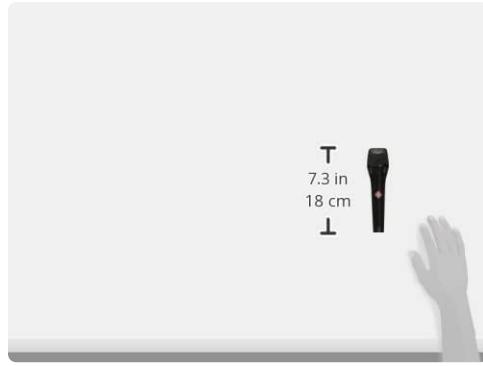


Image: Neumann KMS 105 microphone shown with its approximate height of 7.3 inches (18 cm) for scale.

8. INCLUDED COMPONENTS

The Neumann KMS 105 package typically includes:

- Neumann KMS 105 Condenser Microphone
- Microphone Clip
- Protective Pouch/Case

9. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video showcasing the Neumann KMS 105 MT Condenser Microphone, highlighting its features and applications.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Neumann website or contact your authorized Neumann dealer. Keep your proof of purchase for warranty claims.

11. IMPORTANT SAFETY INFORMATION

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, please visit www.P65Warnings.ca.gov.

