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> COMICA CVM-V02O2 XLR Lavalier Microphone Instruction Manual

## COMICA CVM-V02O2

# COMICA CVM-V02O2 XLR Lavalier Microphone Instruction Manual

Model: CVM-V02O2

## INTRODUCTION

The COMICA CVM-V02O2 is an omnidirectional XLR lavalier microphone designed for professional audio recording. It features a metal body for enhanced shielding and a 5.9-foot soft silicone wire for flexibility and durability. This microphone operates on 48V phantom power, eliminating the need for internal batteries, and is compatible with various audio recording devices such as camcorders, audio recorders, and mixers that provide phantom power.

## PACKAGE CONTENTS



The COMICA CVM-V02O2 package typically includes:

- 2 x CVM-V02O2 XLR Lavalier Microphones

- 2 x Wind Muffs (for reducing wind noise)
- 2 x Lapel Clips (pre-attached to microphones)
- 1 x User Manual / Warranty Card

*Image: Two COMICA CVM-V02O2 XLR lavalier microphones, each with a wind muff and a clip, alongside their packaging and a warranty card.*

## PRODUCT FEATURES

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- **Low Distortion:** Features a flat frequency response to ensure accurate sound reproduction, preserving the natural quality of the voice without artificial processing.
- **Durable Construction:** Manufactured using precise CNC processing technology, the microphone's metal body provides superior shielding against interference.
- **Phantom Power Operation:** Designed to operate exclusively with +48V phantom power, eliminating the need for internal batteries. This simplifies operation and reduces maintenance.
- **Flexible Cable:** Equipped with a 5.9-foot (1.8-meter) soft silicone wire, offering comfort and ease of adjustment, allowing for movement during recording without disconnecting the microphone.
- **Omnidirectional Pickup Pattern:** The microphone captures sound with equal sensitivity from all directions, making it versatile for various recording scenarios where sound sources may not be directly in front of the mic.
- **XLR Connector:** Utilizes a standard 3-pin XLR connector for balanced audio output, ensuring compatibility with professional audio equipment.

*Image: Close-up of the COMICA CVM-V02O2 microphone's metal body, 5.9ft soft silicone wire, and attached clip with wind muff.*

## SETUP INSTRUCTIONS

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1. **Identify Compatible Device:** Ensure your recording device (camcorder, audio recorder, mixer) has an XLR input and can supply +48V phantom power.
2. **Connect Microphone:** Insert the 3-pin XLR connector of the CVM-V02O2 microphone into the XLR input port of your recording device.
3. **Activate Phantom Power:** Turn on the +48V phantom power supply on your recording device. The microphone will not function without phantom power.
4. **Secure Microphone:** Use the integrated lapel clip to attach the microphone to your clothing, such as a collar, tie, or pocket. Position it approximately 6-8 inches (15-20 cm) from the sound source for optimal audio capture.
5. **Attach Wind Muff (Optional):** For outdoor recording or in environments with air movement, place the

included wind muff over the microphone capsule to reduce unwanted wind noise.

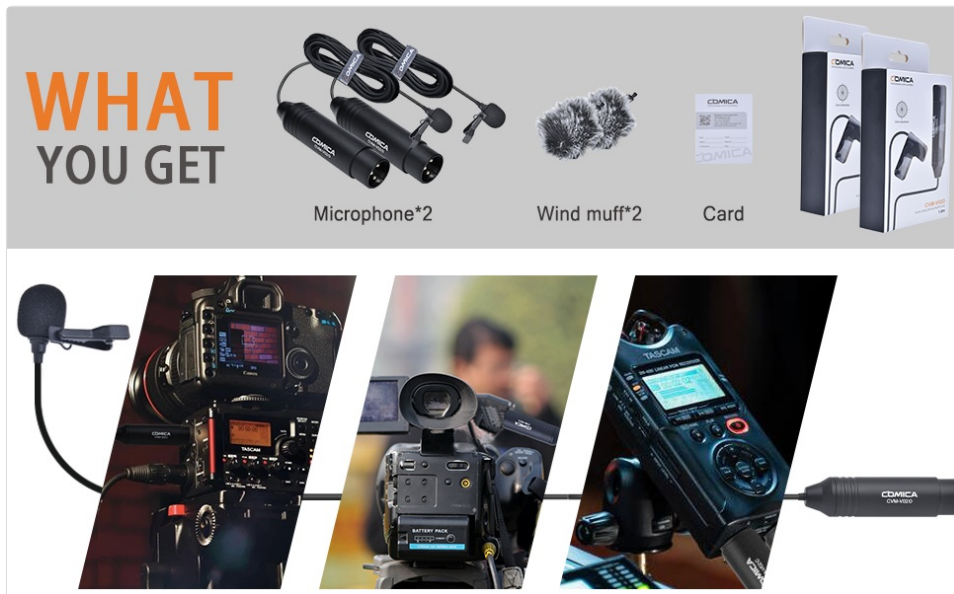


Image: Diagram showing the COMICA CVM-V02O2 microphone connected to a camera and a Tascam audio recorder, illustrating typical setup scenarios.

## OPERATING INSTRUCTIONS

- **Omnidirectional Pickup:** The CVM-V02O2 is an omnidirectional microphone, meaning it captures sound from all directions equally. This is beneficial for interviews or group discussions where multiple speakers are present, or when the microphone's exact orientation is not critical.
- **Monitoring Audio:** Always monitor your audio through headphones connected to your recording device to ensure proper levels and to detect any unwanted noise or distortion.
- **Adjusting Gain:** Set the input gain on your recording device to an appropriate level. Avoid setting the gain too high, as this can introduce excessive room noise or hum, especially with omnidirectional microphones. Aim for levels that peak around -6dB to -3dB to prevent clipping.
- **Cable Management:** Utilize the integrated Velcro wire keeper to manage any excess cable, preventing tangles and reducing potential cable noise during movement.



Image: Diagram comparing omnidirectional and cardioid microphone pickup patterns, highlighting the 360-degree sound collection of an omnidirectional mic.

## MAINTENANCE

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- **Cleaning:** Gently wipe the microphone body and cable with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Storage:** Store the microphone in a dry, cool place, away from direct sunlight and extreme temperatures. Use the Velcro wire keeper to keep the cable neatly coiled.
- **Handling:** This is a high-precision instrument. Avoid dropping, impacting, or subjecting the microphone to strong vibrations.
- **Environmental Protection:** Do not expose the equipment to rain or damp environments to prevent short circuits and damage. Keep away from heat sources or strong interference sources.
- **Wind Muffs:** Regularly clean or replace wind muffs as they can accumulate dust and debris, affecting sound quality.

## TROUBLESHOOTING

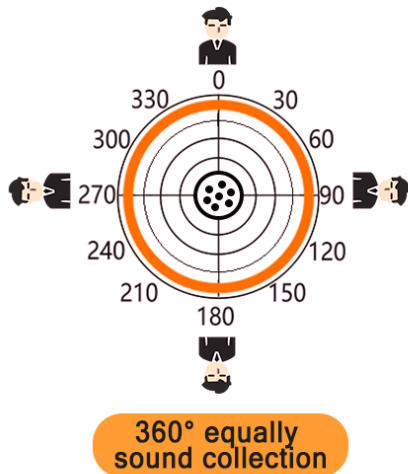
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Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none"><li>◦ 48V phantom power is not activated.</li><li>◦ Microphone not properly connected.</li><li>◦ Recording device input gain too low.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure +48V phantom power is turned on for the XLR input.</li><li>◦ Check that the XLR connector is fully seated in the input port.</li><li>◦ Increase the input gain on your recording device.</li></ul>
Excessive background noise/hum	<ul style="list-style-type: none"><li>◦ Input gain set too high.</li><li>◦ Proximity to interference sources (e.g., power cables, electronics).</li><li>◦ Room acoustics.</li></ul>	<ul style="list-style-type: none"><li>◦ Reduce the input gain on your recording device.</li><li>◦ Move the microphone and recording setup away from potential interference.</li><li>◦ Record in a quieter environment or use acoustic treatment.</li></ul>
Muffled or unclear sound	<ul style="list-style-type: none"><li>◦ Microphone positioned too far from the sound source.</li><li>◦ Damaged wind muff or microphone capsule.</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure the microphone is clipped 6-8 inches from the speaker's mouth.</li><li>◦ Inspect the wind muff and microphone for damage; replace if necessary.</li></ul>

## SPECIFICATIONS

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## Omnidirectional (This page)



## Cardioid

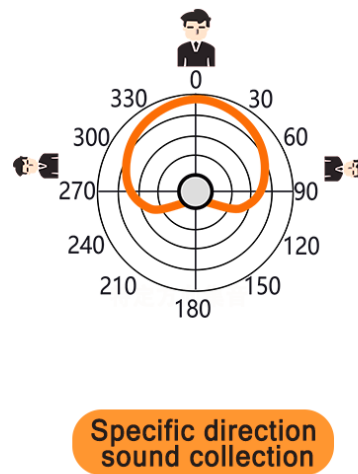


Image: Detailed specifications for the COMICA CVM-V02O2 microphone, including directivity, frequency range, THD, sensitivity, signal-to-noise ratio, and power source.

Feature	Detail
Model Name	CVM-V02O2 1.8M
Directivity	Omnidirectional
Frequency Range	100Hz ~ 12KHz
Total Harmonic Distortion (THD)	<1%
Sensitivity	35dB ± 3dB
Signal-to-Noise Ratio	≥60dB
Power Source	48V Phantom Power
Connectivity Technology	XLR
Microphone Form Factor	Lavalier
Cable Length	5.9 feet (1.8 meters)
Item Weight	3.2 ounces
Compatible Devices	Audio Mixer, Audio Mixer Preamp, Camcorder, Camera, Voice Recorder

## WARRANTY AND SUPPORT

COMICA products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official COMICA website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact COMICA customer support through their official channels. Please provide your product model number (CVM-V02O2) and purchase details when contacting support.

