

## Audio-Technica PRO24CM

# Audio-Technica PRO24CM Stereo Condenser On-Camera Microphone

Instruction Manual

## 1. INTRODUCTION

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The Audio-Technica PRO24CM is a lightweight, compact stereo condenser microphone designed for digital recording with high-fidelity stereo sound. It is optimized for use with camcorders that feature an accessory shoe and a stereo microphone input. The microphone utilizes a pair of cardioid elements in an X-Y configuration to capture the spatial impact and realism of a live sound field.

This manual provides essential information for the proper setup, operation, and maintenance of your PRO24CM microphone.

## 2. PACKAGE CONTENTS

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Verify that all the following items are included in your package:

- PRO24CM Stereo Condenser Microphone with permanently attached 6-12 inch coiled cable and right-angle 3.5 mm stereo mini plug
- Video-camera shoe mount
- LR44 battery (1.5V)
- Windscreen
- Soft protective pouch



Image: Included accessories for the PRO24CM microphone.

## 3. SETUP

### 3.1 Battery Installation

The PRO24CM can operate on a 1.5V LR44 battery or via plug-in power from your camcorder. If your camcorder does not provide plug-in power, battery installation is required.

1. Locate the battery compartment on the microphone body.
2. Carefully open the compartment.
3. Insert one LR44 battery, ensuring correct polarity (+/-).
4. Close the battery compartment securely.



Image: The LR44 battery for microphone power.

### 3.2 Mounting the Microphone

The PRO24CM is designed to attach to a camcorder's accessory shoe.

1. Slide the video-camera shoe mount onto your camcorder's accessory shoe.
2. Secure the mount by tightening its locking mechanism.
3. Insert the microphone into the shoe mount.



Image: PRO24CM microphone attached to a camcorder.

### 3.3 Connecting to a Camcorder

Connect the microphone to your camcorder's stereo microphone input.

1. Locate the 3.5 mm stereo mini plug on the microphone's coiled cable.
2. Insert the plug firmly into the microphone input jack on your camcorder.



Image: The PRO24CM microphone showing its coiled cable and 3.5mm connector.

### 3.4 Using the Windscreen

For outdoor recording or in windy conditions, attach the included windscreen to reduce wind noise and plosives.

1. Gently slide the foam windscreen over the microphone's capsule.
2. Ensure it fits snugly without obstructing the microphone elements.



Image: PRO24CM microphone with windscreens and other accessories.

## 4. OPERATION

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### 4.1 Powering On/Off

The PRO24CM features an on/off switch for convenient operation.

- To turn the microphone **ON**, slide the switch to the "ON" position.
- To turn the microphone **OFF**, slide the switch to the "OFF" position.

When using plug-in power from your camcorder, the microphone will draw power directly from the camcorder, and battery operation is not required. However, it is still recommended to turn the microphone off when not in use to conserve battery life if a battery is installed.

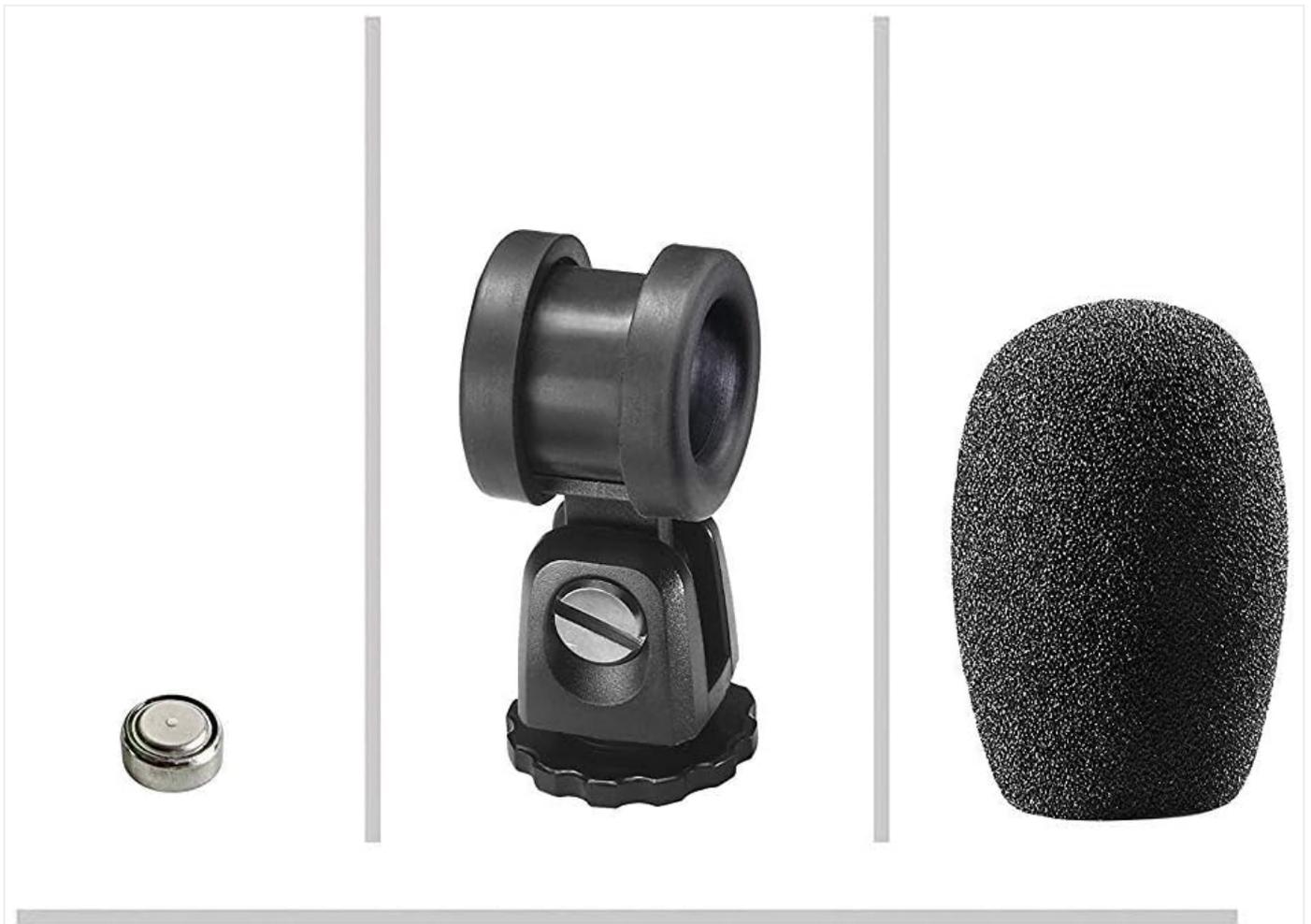


Image: The PRO24CM microphone with its on/off switch visible.

## 4.2 Recording Considerations

- **Placement:** Position the microphone to capture the desired sound source. The X-Y stereo configuration is designed to provide a natural stereo image.
- **Monitoring:** Always monitor your audio through headphones connected to your camcorder to ensure optimal sound quality and to detect any unwanted noise.
- **Gain Levels:** Adjust the input gain on your camcorder to prevent clipping (distortion) while ensuring a strong signal.

## 5. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the microphone body. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the microphone in its protective pouch to prevent dust and damage. Remove the battery if storing for extended periods to prevent leakage.
- **Cable Care:** Avoid sharp bends or kinks in the microphone cable.

## 6. TROUBLESHOOTING

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- **No Sound:**
  - Ensure the microphone's on/off switch is in the "ON" position.
  - Check if the battery is correctly installed and has sufficient charge. Replace if necessary.
  - Verify the 3.5 mm plug is fully inserted into the camcorder's microphone input.
  - Confirm the camcorder's audio input settings are correct and the input gain is not set to zero.
- **Distorted Sound:**
  - Reduce the input gain on your camcorder.
  - Ensure the microphone is not too close to the sound source, causing overload.
- **Excessive Wind Noise:**
  - Ensure the windscreen is properly installed.
  - Consider using an additional furry wind muff for extreme conditions (not included).

## 7. SPECIFICATIONS

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Feature	Specification
Element	Fixed-charge back plate permanently polarized condenser
Polar Pattern	X/Y Stereo
Frequency Response	100-17,000 Hz
Open Circuit Sensitivity	-50 dB (3.1 mV) re 1V at 1 Pa
Impedance	600 ohms
Maximum Input Sound Level	119 dB SPL, 1 kHz at 1% T.H.D.
Dynamic Range (typical)	82 dB, 1 kHz at Max SPL
Signal-to-Noise Ratio	57 dB, 1 kHz at 1 Pa
Power Requirements	2-10V DC plug-in power or 1.5V LR44 battery
Battery Type	1.5V LR44
Battery Current / Life	0.6 mA / 200 hours typical
Switch	On/off

Feature	Specification
Weight	3.9 oz (111 g) / 120 Grams
Dimensions (L x Max Body Dia.)	4.59" (116.5 mm) long, 0.83" (21.0 mm) maximum body diameter
Output Connector	3.5 mm stereo mini plug on cable
Cable	Permanently attached 152.4 mm - 304.8 mm (6"-12") coiled cable with right-angle molded 3.5 mm stereo mini-plug

## 8. SAFETY INFORMATION

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- Do not expose the microphone to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the microphone to strong impacts.
- Keep the microphone away from strong magnetic fields.
- Do not attempt to disassemble or modify the microphone. This will void any warranty.
- Dispose of used batteries responsibly according to local regulations.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please contact Audio-Technica customer service or visit their official website. Keep your purchase receipt as proof of purchase.

### Audio-Technica Contact Information:

- [Official Audio-Technica Website](#)
- Refer to your product packaging or the official website for specific regional contact details.

