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› Rockville RCM PRO Condenser Microphone Bundle with PRO-M50 Headphones Instruction Manual

Rockville RCM PRO+PRO-M50+RMF2

Rockville RCM PRO Condenser Microphone Bundle Instruction Manual

INTRODUCTION

This manual provides comprehensive instructions for the Rockville RCM PRO Condenser Microphone Bundle. This bundle includes the RCM PRO professional studio condenser microphone, PRO-M50 studio headphones, and the ROCKSHIELD 3 large studio mic isolation shield. It is designed for high-quality audio recording in home studios, professional studios, broadcasting, and podcasts.



Image: Overview of the Rockville RCM PRO Condenser Microphone Bundle.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Rockville RCM PRO Studio/Recording Condenser Microphone
- Rockville PRO-M50 Studio Headphones with Detachable Coil Cable and Extra Ear Pads
- Rockville ROCKSHIELD 3 Large Studio Mic Isolation Shield with Sound Dampening Foam
- Metal Shock Mount for RCM PRO Microphone
- Large Wind-Screen/Pop-Filter
- (1) 10-foot XLR to XLR Cable (22 gauge)
- (1) 10-foot 3.5mm to XLR Cable (22 gauge)
- Owner's Manual
- Warranty Card



Image: All included components of the Rockville RCM PRO bundle.

SETUP INSTRUCTIONS

1. Rockville RCM PRO Microphone Setup

1. **Attach Shock Mount:** Secure the metal shock mount to a compatible microphone stand. Ensure it is tightened to prevent movement.



Image: The metal shock mount for the RCM PRO microphone.

2. **Mount Microphone:** Carefully insert the RCM PRO microphone into the shock mount. The microphone body is made of special zinc metal material to prevent noise from shock and vibrations.
3. **Connect XLR Cable:** Connect one end of the provided XLR to XLR cable to the 3-pin XLR output on the bottom of the RCM PRO microphone.





Image: RCM PRO microphone with its XLR connector.

4. **Connect to Audio Interface/Mixer:** Connect the other end of the XLR cable to an audio interface, mixer, or preamplifier that provides **48V DC Phantom Power**. The RCM PRO requires phantom power to operate.
5. **Attach Pop Filter:** Position the large wind-screen/pop-filter in front of the microphone to reduce plosive sounds during recording.

2. Rockville ROCKSHIELD 3 Isolation Shield Setup

1. **Attach to Mic Stand:** The ROCKSHIELD 3 can be mounted directly to a microphone stand. Secure it firmly.
2. **Position Microphone:** Place the RCM PRO microphone within the ROCKSHIELD 3. The shield's 2-inch high-density acoustic foam helps block unwanted room noise and reflections, enhancing vocal clarity.



Image: The Rockville ROCKSHIELD 3 isolation shield.

3. Rockville PRO-M50 Headphones Setup

1. **Connect Cable:** Attach the detachable coil cable to the PRO-M50 headphones.
2. **Connect to Audio Source:** Plug the other end of the headphone cable into the headphone output of your audio interface, mixer, or computer. Use the appropriate adapter if necessary (e.g., 3.5mm to 1/4-inch).





Image: Rockville PRO-M50 studio headphones.



Image: Example of a complete setup with the RCM PRO microphone, ROCKSHIELD 3, and PRO-M50 headphones.

OPERATING INSTRUCTIONS

Rockville RCM PRO Microphone Usage

- **Polar Pattern:** The RCM PRO features a cardioid polar pattern, which primarily picks up sound from the front of the microphone and rejects sounds from the sides and rear. This is ideal for isolating vocals or instruments in a noisy environment.
- **Microphone Placement:** For vocals, position the microphone 6-12 inches from the sound source. Experiment with distance and angle to achieve the desired tone.
- **Gain Staging:** Adjust the gain on your audio interface or mixer to achieve a strong signal without clipping (distortion). Monitor your levels carefully.

Rockville PRO-M50 Headphones Usage

- **Monitoring:** Use the PRO-M50 headphones for accurate monitoring during recording and mixing. Their 40mm Neodymium drivers and wide frequency range (10Hz-25kHz) provide precise sound reproduction.
- **Comfort and Fit:** Adjust the headband and earcups for a comfortable and secure fit. The closed-back design helps minimize sound bleed into the microphone during recording.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microphone, headphones, and isolation shield. Avoid using liquid cleaners or abrasive materials. For the microphone grille, a soft brush can be used to gently remove dust.
- **Storage:** When not in use, store the microphone and headphones in their protective cases (if applicable) or in a clean, dry environment away from extreme temperatures and humidity.
- **Cable Care:** Avoid sharp bends or kinks in the cables. Store them neatly coiled to prevent damage.

TROUBLESHOOTING

No Sound from Microphone:

- Ensure 48V phantom power is enabled on your audio interface or mixer.
- Check all XLR cable connections for proper seating.
- Verify that the input gain on your audio interface/mixer is turned up.
- Test with a different XLR cable if possible.

Distorted Audio from Microphone:

- Reduce the input gain on your audio interface/mixer to prevent clipping.
- Ensure the microphone is not too close to the sound source, causing overload.
- Check for damaged cables.

Headphones Not Working:

- Ensure the detachable cable is securely connected to both the headphones and the audio source.
- Check the volume level on your audio source.
- Test the headphones with a different audio source or device.
- Verify that the correct output is selected on your audio interface/mixer.

SPECIFICATIONS

Rockville RCM PRO Condenser Microphone

- **Element:** Fixed-charge back plate, permanently polarized condenser
- **Cartridge:** 25mm Large Diaphragm
- **Polar Pattern:** Cardioid
- **Frequency Response:** 20Hz - 20kHz
- **Open Circuit Sensitivity:** -30dB $\pm$ 2dB (0dB = 1V/Pa @ 1 kHz)
- **Impedance:** 100 Ohms
- **Equivalent Noise Level:** $\leq$ 23 dB A (IEC581-5)
- **Maximum Input Sound Level:** 142dB SPL (THD = 1.0% @ 1 kHz)
- **Signal-to-Noise Ratio:** 74 dB, 1 kHz @ 1 Pa
- **Dynamic Range (Typical):** 124 dB, 1 kHz @ Max SPL
- **Power Requirements:** 48V DC Phantom Power
- **Output Connector:** 3-Pin XLR
- **Construction:** High-quality steel microphone head, special zinc metal body

Rockville PRO-M50 Studio Headphones

- **Driver Size:** 40mm Neodymium drivers
- **Frequency Range:** 10Hz - 25kHz
- **Design:** Closed-back, over-ear
- **Cable:** Detachable coil cable

Rockville ROCKSHIELD 3 Isolation Shield

- **Acoustic Material:** 2-inch high-density acoustic foam
- **Function:** Reduces unwanted room noise and reflections
- **Mounting:** Compatible with standard microphone stands

WARRANTY INFORMATION

This product bundle is covered by a manufacturer's warranty. Please refer to the included Warranty Card for specific terms, conditions, and registration details. Retain your proof of purchase for any warranty claims.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Rockville customer support. Contact information can typically be found on the Rockville website or on the included warranty card.

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