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Rockville RSG12.24+RPM870+RCSS1610

Rockville RSG12.24 PA Speakers and RPM870 Powered Mixer Instruction Manual

Comprehensive guide for setup, operation, and maintenance.

Product Overview

This package combines the powerful Rockville RSG12.24 Dual 12-inch PA Speakers with the versatile Rockville RPM870 8-Channel Powered Mixer, designed for high-end performance in DJ and professional audio applications. The system also includes Rockville RCSS1610 Speakon to Speakon speaker cables for reliable connectivity.

RSG12.24 PA Speakers

- Dual 12-inch Pro Audio Woofers
- Three Piezo 3-inch Bullet Tweeters
- One High Efficiency Piezo Compression Horn
- 2000 Watts Peak Power, 1500 Watts Program Power, 1000 Watts RMS Power
- 4-Ohm Impedance

RPM870 Powered Mixer

- 8 Channel Mixer Section (6 mono, 1 stereo)
- 8 High-Quality XDR2 Mic Preamps with +48V Phantom Power
- 6000 Watts Peak Power Output
- 7-Band Stereo Graphic Equalizer
- 24-Bit Digital Effects Processor with 16 Presets
- USB Input for MP3, WAV, WMA Playback
- Bluetooth Connectivity

Setup Instructions

1. Speaker Placement

The RSG12.24 speakers are designed for versatile placement. They can be positioned upright on any flat surface

using their built-in rubber feet, or placed on their side to function as stage monitors. For elevated sound projection, utilize the 35mm socket on the bottom of each speaker to mount them on standard speaker stands.



Image: Rockville RSG12.24 speakers, RPM870 mixer, and cables.

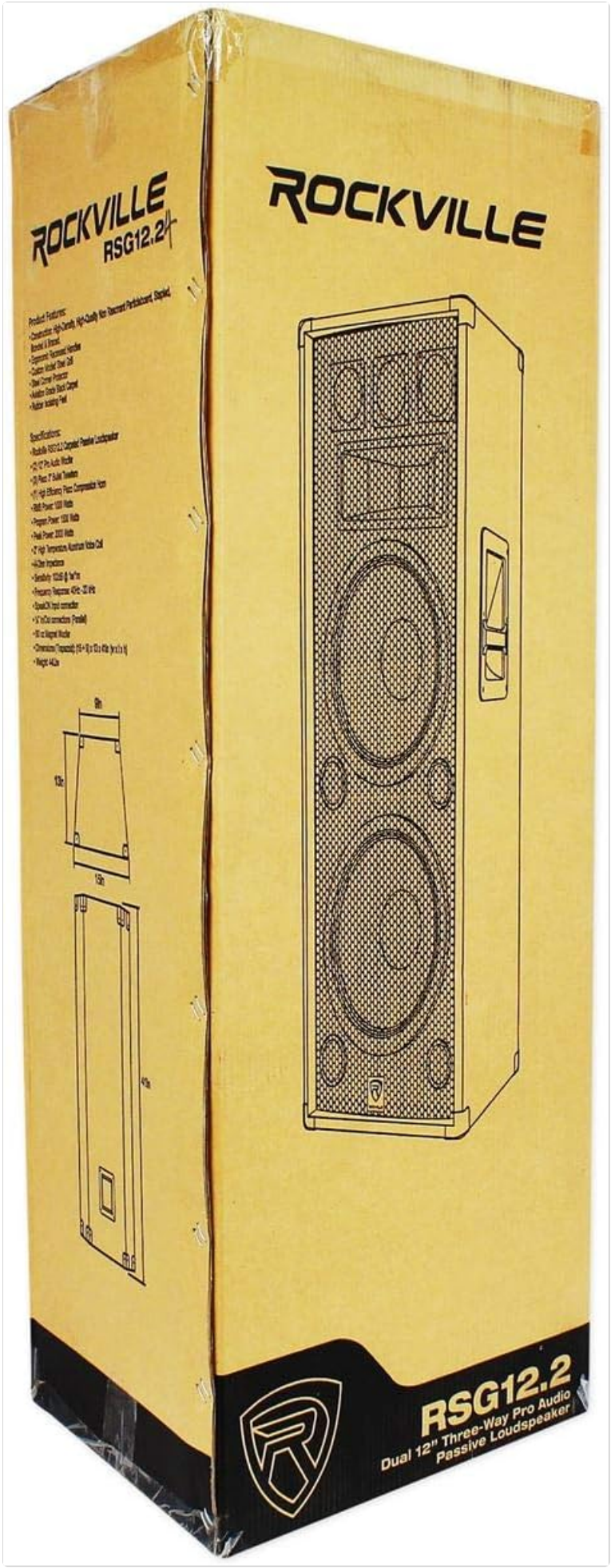


Image: Rear view of a Rockville RSG12.24 speaker showing input/output ports and pole mount socket.

2. Connecting Speakers to Mixer

Use the provided Rockville RCSS1610 Speakon to Speakon cables to connect the RSG12.24 passive speakers to the RPM870 powered mixer. Ensure the mixer is powered off before making connections.

1. Connect one end of a Speakon cable to the **INPUT** Speakon port on the back of an RSG12.24 speaker.
2. Connect the other end of the same Speakon cable to the **LEFT A** Speakon output on the back of the RPM870 mixer.
3. Repeat for the second speaker, connecting it to the **RIGHT A** Speakon output on the mixer.
4. Alternatively, if your mixer has 1/4" outputs, you can use 1/4" cables to connect the speakers.

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Video: Instructions on how to set up Rockville RSG speakers, including connecting them to a mixer.

3. Connecting a Subwoofer (Optional)

To add a subwoofer to your RPM870 mixer, follow these steps:

1. Connect an XLR cable from the **MAIN LEFT** XLR output on the RPM870 mixer to the **LEFT INPUT** XLR port on your subwoofer.
2. If adding a second subwoofer, use the **MAIN RIGHT** XLR output.
3. Power on the subwoofer and adjust its volume and crossover settings as desired.

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Video: Guide on how to set up a subwoofer with the Rockville RPM870 mixer.

4. Daisy Chaining Speakers (Advanced Setup)

The RSG12.24 speakers feature 1/4" input/output connections, allowing you to daisy chain multiple speakers together for a larger sound system. This is particularly useful for expanding your setup beyond two speakers.

1. Connect the first pair of speakers to the mixer as described in step 2.
2. Using a 1/4" cable, connect the **OUTPUT** 1/4" port of the first speaker to the **INPUT** 1/4" port of the next speaker in the chain.
3. Repeat this process for additional speakers.
4. **Important:** When daisy chaining, ensure all speakers are 8-ohm models. Connecting two 8-ohm speakers in parallel will result in a 4-ohm load per channel, which the RPM870 mixer can handle. Using 4-ohm speakers in a daisy chain configuration may damage your mixer.

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Video: Demonstrates daisy chaining multiple RSG speakers for an expanded setup.

Operating Instructions (RPM870 Mixer)

1. Microphone Setup

The RPM870 mixer features 8 high-quality XDR2 mic preamps. To connect a microphone:

1. Connect your microphone via an XLR cable to any available **MIC** XLR input on the mixer (e.g., Channel 1).
2. Adjust the **GAIN** knob for the selected channel to set the input level.
3. Raise the channel's **FADER** and the **MAIN L/R FADERS** to hear the microphone through the speakers.
4. If using a condenser microphone, activate the **+48V PHANTOM** power switch.

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Video: Demonstrates how to set up a microphone, line, or instrument to the RPM870 mixer.

2. Instrument Setup

To connect an instrument (e.g., guitar, keyboard) or a line-level device:

1. Connect your instrument via a 1/4" cable to any available **LINE IN** 1/4" input on the mixer (e.g., Channel 2).
2. Adjust the **GAIN** knob for the selected channel to set the input level.
3. Raise the channel's **FADER** and the **MAIN L/R FADERS** to hear the instrument through the speakers.

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Video: Demonstrates how to set up a microphone, line, or instrument to the RPM870 mixer.

3. Channel Controls

Each channel on the RPM870 mixer offers a range of controls for precise audio shaping:

- **GAIN:** Adjusts the input level for the channel. Use the **PAD** button to lower high-input signals by 25dB (e.g., for condenser microphones).
- **EQ (Equalizer):** Four-band EQ (High, High Mid, Low Mid, Low) to boost or cut specific frequency ranges.
- **SEND:** Controls the amount of the channel's signal sent to external effects processors via the Send/Return jacks.
- **FX:** Controls the amount of the channel's signal sent to the built-in 24-bit digital effects processor.
- **PAN:** Adjusts the stereo placement of the channel's signal, sending it more to the left or right output.
- **MUTE:** Mutes the channel's output.
- **SOLO:** Isolates the channel for monitoring through headphones without affecting the main mix.
- **FADER:** Adjusts the overall output level of the channel to the main mix.

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Video: Detailed explanation of the channels and controls on the RPM870 mixer.

4. Effects Processor

The RPM870 includes a 24-bit digital effects processor with 16 presets, offering various reverbs, delays, chorus, flanger, phaser, and rotary speaker effects.

- Use the **PRESET SELECT** knob to choose from the 16 available effects.
- The **FX** knob controls the overall level of the selected effect.
- **PARAMETER 1** and **PARAMETER 2** knobs allow fine-tuning of specific effect characteristics (e.g., time, dampening, rate, depth, feedback).
- The **FX MUTE** button mutes the effects.
- An **FX SWITCH** input allows for external control of effects.

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Video: Explains the functions of the effects processor and its controls on the RPM870.

5. Music Playback (USB & Bluetooth)

The RPM870 supports music playback via USB and Bluetooth:

- **USB:** Insert a USB thumb drive containing MP3, WAV, or WMA files into the **USB** port.
- **Bluetooth:** Press the **SOURCE** button on the MP3 Digital Controller until 'Bluetooth' is selected. Press the **PLAY** button to enter Bluetooth pairing mode. Search for 'RPM870' on your smartphone or tablet's Bluetooth settings and connect.

- Use the **PREVIOUS**/**NEXT** buttons to navigate tracks and the **PLAY**/**PAUSE** button for playback control.
- Adjust the volume using the **7**/**8 (MP3) FADER** and the **MAIN L**/**R FADERS**.

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Video: Comprehensive guide on how to set up and operate the RPM870 mixer.

6. Karaoke Setup

The RPM870 is ideal for karaoke setups due to its multiple microphone inputs and music playback options:

1. Connect your music source (e.g., tablet via Bluetooth) as described in step 5.
2. Connect microphones to available XLR inputs (see step 1).
3. Adjust microphone and music levels using their respective faders.
4. Add desired vocal effects using the built-in effects processor (see step 4).

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Video: Instructions on how to set up karaoke with the RPM870 mixer.

Maintenance

To ensure the longevity and optimal performance of your Rockville audio equipment, follow these maintenance guidelines:

- Keep the units clean by wiping them with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Ensure proper ventilation around the mixer to prevent overheating.
- Store the equipment in a cool, dry place away from direct sunlight and extreme temperatures.
- Always disconnect power before cleaning or performing any maintenance.

Troubleshooting

If you encounter issues with your Rockville RSG12.24 speakers or RPM870 mixer, refer to the following common troubleshooting tips:

- **No Sound:** Check all power connections, ensure the mixer is powered on, verify speaker cables are securely connected, check channel and main fader levels, and confirm no mute or solo buttons are active.
- **Distorted Sound:** Reduce input gain levels on the mixer channels, check the main output levels, ensure speaker impedance matches the mixer's capabilities (especially when daisy chaining).
- **No Effects:** Verify the FX knob on the channel is raised, the main FX fader is up, and the FX Mute button is disengaged. Check parameter settings for the selected effect.
- **Bluetooth Connection Issues:** Ensure the mixer's MP3 controller is in Bluetooth mode, and that 'RPM870' is selected and paired on your device. Try restarting both the mixer and your Bluetooth device.

Specifications

Rockville RSG12.24 PA Speaker

- **Woofers:** (2) 12” Pro Audio
- **Tweeters:** (3) Piezo 3" Bullet, (1) High Efficiency Piezo Compression Horn
- **RMS Power:** 1000 Watts
- **Program Power:** 1500 Watts
- **Peak Power:** 2000 Watts
- **Voice Coil:** 2” High Temperature Aluminum
- **Impedance:** 4-Ohm
- **Sensitivity:** 102dB @ 1w/1m
- **Frequency Response:** 40Hz - 22 kHz
- **Input/Output Connections:** SpeakON, ¼” In/Out (Parallel)
- **Dimensions:** (15.4+8.6)x12.5x40.5in

Rockville RPM870 Powered Mixer

- **RMS Power Output:** 750w x 2 @ 4 Ohm, 500w x 2 @ 8 Ohm
- **Program Power Output:** 1500w x 2 @ 4 Ohm, 1000w x 2 @ 8 Ohm
- **Peak Power Output:** 3000w x 2 @ 4 Ohm, 2000w x 2 @ 8 Ohm
- **Channels:** 8 (6 mono, 1 stereo)
- **Mic Preamps:** 8 XDR2 with +48 V phantom power
- **EQ:** 7-Band Stereo Graphic Equalizer
- **Effects:** 24-Bit Digital Effects Processor
- **USB Input:** Supports MP3, WAV, WMA
- **Connectivity:** SpeakON, 1/4" TRS, USB
- **Power Source:** Corded Electric

Rockville RCSS16-10 Speaker Cable

- **Type:** 16 AWG 2-Conductor SpeakON to SpeakON Pro Speaker Cable
- **Conductors:** 100% Copper
- **Jacket:** Black PVC
- **Length:** 10 Ft.
- **Gauge:** 16

Support

For any questions, comments, or concerns regarding your Rockville RSG12.24 speakers or RPM870 mixer, please contact our customer support team:

Phone: 1-646-758-0144 (9AM-5PM EST Mon-Fri)

Email: sales@rockvilleaudio.com

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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