



## Rolls RM64 Four Zone Mixer Setup Guide

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# ROLLS

### Rolls RM64 Four Zone Mixer



### FEATURES

- Two Microphone and Four RCA Source Inputs
- Four XLR Balanced Zone Outputs
- 12 VDC Phantom Power available for each Mic Input
- Remote Volume control jacks for each Zone Output
- Switchable Ducking for the Mic Inputs

### SPECIFICATIONS

- **Input Impedance:**
  - 10K Ohms balanced
  - 50K Ohms unbalanced RCA
- **Output Impedance:** 50 Ohms Balanced XLR
- **Max Input Level:**
  - Mic: +10 dB
  - Source: +22 dB
- **Phantom Power:** +12 Volts DC, 5mA max.
- **Input Connectors:** XLR and RCA
- **Outputs:** 4 ea. XLR
- **Max Gain:**
  - 60 dB for microphones (mic)
  - 30 dB for line sources
- **Signal-to-Noise Ratio (S/N Ratio):** Greater than 75 dB
- **Total Harmonic Distortion (THD):** Less than 0.3%
- **Intermodulation Distortion (SMPTE):** Less than 0.3%
- **Common Mode Rejection Ratio (CMRR):** 90 dB
- **Frequency Response:** 20Hz to 20kHz, +/- 0 dB
- **Power:** 120 VAC, 50-60 Hz, 15 W
- **Weight:** 7 lbs (3KG)
- **Size:** 19" x 1.75" x 6.5" (48cm x 4.5cm x 17cm)

Thank you for your purchase of the Rolls RM64 Four Zone Mixer. The RM64 combines two paging microphones with up to four line-level source inputs. Each input is switch selected to output to any combination of four zone outputs. The outputs are all balanced XLR connectors and a 1/4" Remote Volume jack provides each zone with the means for external volume control. The Microphone inputs feature automatic ducking for easy paging. The RM64 is the ideal solution for banquet rooms, offices, restaurants/nightclubs, etc.

**NOTE:** This unit is intended for professional installation. Certain assumptions have been made that the installer has the required knowledge to properly install, set up, and operate the RM64.

## INSPECTION/WARRANTY

1. Unpack and inspect the RM64 box and package. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.
2. Please visit our website at [www.rolls.com](http://www.rolls.com) for Warranty Information and Registration.

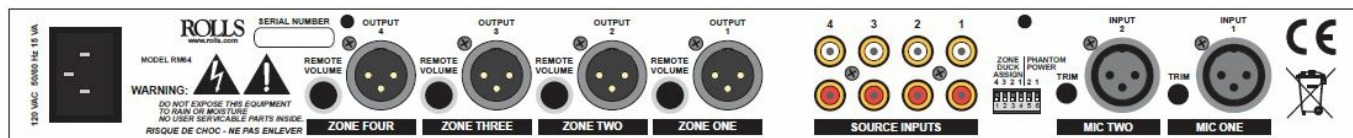
## FRONT PANEL



- **MIC INPUTS 1, 2:** These LEVEL controls adjust the volume of the indicated Microphone channel.
- **SOURCE INPUTS 1 – 4:** These LEVEL controls adjust the volume of the indicated Source channel.

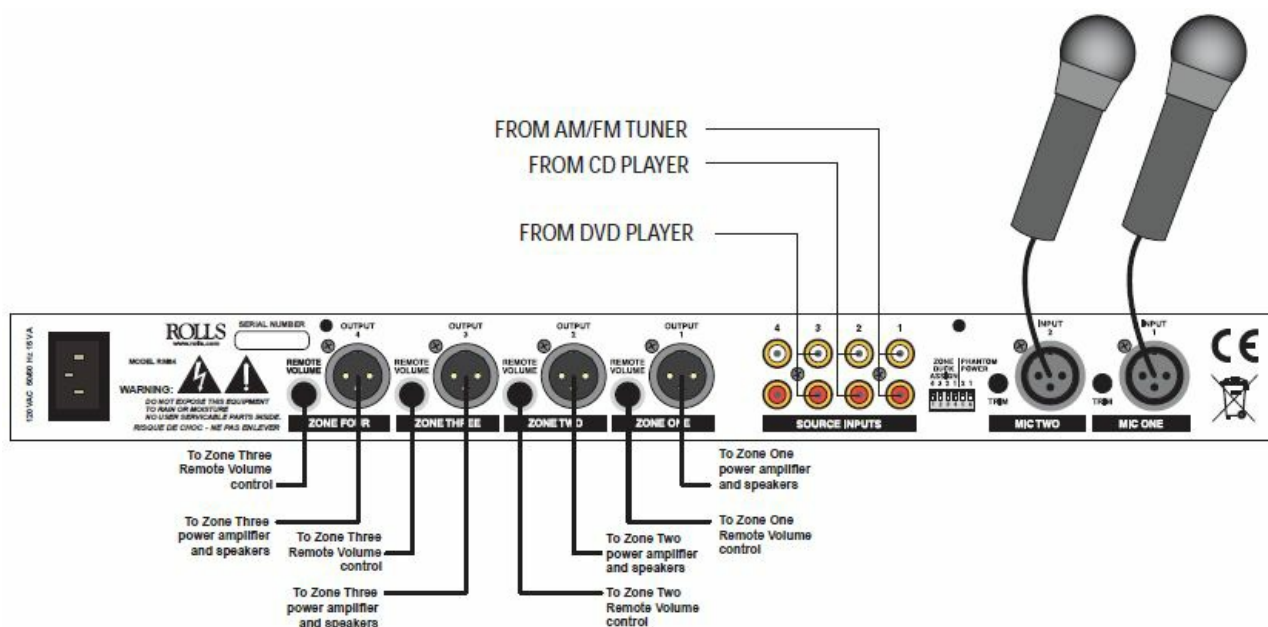
- **ZONE SELECT:** DIP switches for assigning the indicated Mic or Source channel to the Zone Outputs. The four switches closest to the channel LEVEL control assign that channel to the zones.
- **ZONE OUTPUTS:** These LEVEL controls adjust the output volume of the indicated ZONE.
- **CH 4 INPUT:** 3.5mm (1/8" stereo) line level input for channel 4.
- **pwr LED:** When lit, indicates the RM64 is on.
- **Power switch:** Turns the RM64 on and off.

## REAR PANEL



- **ZONE OUTPUTS 1 – 4:** Line level (+4 dB ref.) balanced male XLR jacks for connection to the zone amplifiers.
- **REMOTE VOLUME:** These four 1/4" TRS jacks connect to a remote volume potentiometer.
- **SOURCE INPUTS 1 – 4:** RCA input jacks for connection to CD Players, Tuners, etc.
- **ZONE DUCK ASSIGN/PHANTOM POWER SWITCHES:** This set of DIP switches, from left to right; the first four assign which zone will have the source signal(s) ducked by the Microphone Inputs, the last two apply phantom power to the indicated microphone channel.
- **MIC INPUT 1 – 2:** Balanced female XLR jacks for connection to dynamic or condenser-type microphones.
- **TRIM 1 – 2:** Adjusts the input sensitivity for the indicated Mic Input.

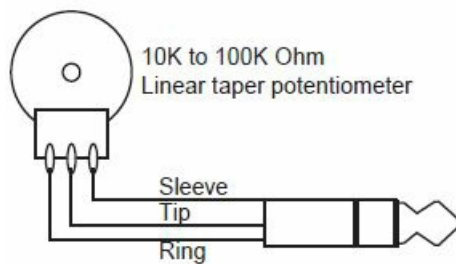
## CONNECTION INFORMATION



Referring to the diagram above, connect microphones to the MIC INPUTs and apply phantom power where needed by moving the corresponding Phantom Power switch to the DOWN position. Connect sources such as cassette players, CD players, AM/FM tuners, etc. to the RCA Source Inputs.

**Note** which input each device is connected to as that input corresponds to its front panel Level control. Connect the XLR outputs to their respective zone amplifiers and speakers. The balanced signals are configured as pin 2 hot, pin 3 neutral, and pin 1 ground. For ground lifting, it will be necessary to remove the connection to pin 1.

## REMOTE VOLUME INFORMATION



For Remote Volume operation, a Tip-Ring-Sleeve plug will need to be wired to a 10 – 100 K Ohm potentiometer (NEITHER INCLUDED) as shown here.

## SETTING THE FRONT PANEL DIP SWITCHES

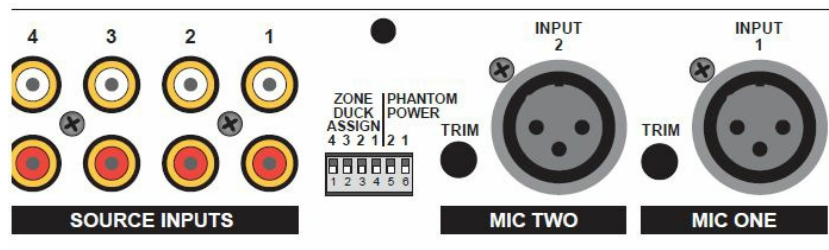


Each input is assigned to a Zone via the four DIP switches nearest that Input Level control. The zone is assigned when the switch is in the DOWN position. For example, the switch settings above send Mic 1 to all four Zones; 1, 2, 3, and 4. Mic 2 is sent to Zone 1 only. Source 1 is sent to Zone 1, and Source 2 is sent to Zones 2, 3, and 4.

## SETTING THE REAR PANEL DIP SWITCHES



- Zone Duck Assign
- Switches 1 – 4 engage the Ducking function to the indicated zone.
- First – in order for the ducking to operate properly in the assigned zone, the microphones and sources must be assigned to that zone.
- Select which zone you wish to have the ducking function by moving that Zone Duck Assign switch to the DOWN position. BOTH Mic 1 and Mic 2, if assigned to the selected zone and have the Zone Duck Assign switch down, will duck the sources assigned to that zone. For example; as shown above – Mic 1 is selected on the front panel to Zones 1 – 4, and Mic 2 is selected only to Zone 1. As shown below, Zone 4 has no ducking assigned, while Zones 1 – 3 have ducking assigned. Therefore, Mic 1 and Mic 2 will duck whatever Source material is present at Zone 1, Mic 1 will additionally duck material at Zones 2 and 3, but not Zone 4. Mic 2, since it is not selected for Zones 2 – 4, it will have no effect on those zones.



**Phantom Power** Switch 5 applies Phantom Power to Mic 2, Switch 6 applies Phantom Power to Mic 1. The Phantom Power is on when the switch is DOWN.

## FREQUENTLY ASKED QUESTIONS

What is the Rolls RM64 Four Zone Mixer?

The Rolls RM64 Four Zone Mixer is a versatile audio mixing solution designed for multi-zone sound reinforcement and audio distribution applications.

What are the key features of the RM64 Four Zone Mixer?

The RM64 typically offers features such as four input channels, zone-specific volume control, priority muting, and versatile connectivity options for flexible audio management.

How many input channels does the mixer have?

The RM64 Four Zone Mixer includes four input channels, allowing you to connect multiple audio sources for distribution to different zones.

Is it suitable for multi-room audio setups?

Yes, the RM64 is specifically designed for multi-room audio setups, making it ideal for businesses, restaurants, and other establishments with multiple zones.

Can I control the volume independently in each zone?

Yes, the mixer allows independent volume control for each zone, allowing you to adjust the audio levels to suit the specific requirements of each area.

Does it support priority muting?

Yes, the RM64 typically features priority muting, which can automatically lower the audio level in one zone when a higher-priority source becomes active.

What types of audio sources can be connected to the mixer?

You can connect various audio sources, including microphones, CD players, media players, and more, to the

input channels of the RM64.

What are the available input and output options on the mixer?

The RM64 Four Zone Mixer offers a range of input and output options, including XLR, 1/4-inch, and RCA connectors, ensuring versatile connectivity with different audio equipment.

Is there a built-in equalization system for audio customization?

The mixer typically features basic equalization controls, allowing you to adjust the sound to your preferences and the acoustics of each zone.

Is there a digital display for monitoring and settings?

The RM64 typically does not include a digital display but relies on analog controls and level indicators for audio monitoring and adjustment.

What is the power source for the mixer?

The mixer is typically powered by an AC power source, providing reliable and consistent operation.

Is there a warranty for the Rolls RM64 Four Zone Mixer?

Warranty coverage for the RM64 Four Zone Mixer typically ranges from 6 months to 1 year or more, ensuring the product's quality and durability.

Where can I purchase the Rolls RM64 Four Zone Mixer?

You can typically purchase the RM64 Four Zone Mixer from authorized Rolls retailers, audio equipment stores, or reputable online marketplaces to ensure you receive a genuine product.

Is it suitable for background music in commercial spaces?

Yes, the RM64 is well-suited for providing background music in commercial spaces, allowing you to manage audio distribution to different areas.

Can it be used for paging or announcements?

Yes, the RM64 can be used for paging or announcements in multi-zone setups, ensuring that important messages are heard clearly in each zone.

Is it rack-mountable for installation in a standard equipment rack?

Yes, the RM64 Four Zone Mixer is often rack-mountable, allowing for convenient and organized installation in standard equipment racks.

**DOWNLOAD THE PDF LINK:** [Rolls RM64 Four Zone Mixer Setup Guide](#)

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