## Using the remote

Before using the remote for the first time, pull the plastic tab out of the bottom and discard it. This tab prevents the battery from discharging during shipping.

To adjust the speakers, aim the remote at the front of the speaker. Each speaker is controlled individually.

**Equalizer Settings**

**Rock**  A balanced sound well suited to rock music.
**Music**  Increases the low and high tones for a full sound, good for a variety of music.
**Vocal**  Provides crisp vocals, perfect for news and talk radio.
**Flat**  Turns off the integrated equalizer. Select this setting if using the equalizer on your audio device, stereo or computer.

| | Speaker on/off |
| --- | --- |
| MUTE | Mute speaker |
| + | Speaker volume up |
| − | Speaker volume down |
| ROCK | Set equalizer for rock music |
| MUSIC | Set equalizer for other music |
| VOCAL | Set equalizer for spoken word |
| FLAT | Turn equalizer off |

**LBL Lighting**

7400 Linder Ave, Skokie, IL 60077
800.323.3226  -  847.626.6300
www.lbllighting.com

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## How the wireless system works

**Multi-Zone Capability**
The audio signal is transmitted wirelessly on any one of three selectable zones. These separate zones prevent interference when setting up multiple railtones systems within one home or business, or if a neighbor has a railtones system. Signals sent on different zones will not interfere with each other.

The zone is selected on the transmitter using the 3-position switch on the side. A blue status light will indicate if the transmitter is connected to any speakers.

Each speaker must then be "tuned" to the signal zone selected on the transmitter. A blue light will indicate if each speaker is receiving a signal from the transmitter.

**Stereo and Mono Sound**
The speakers can be individually configured to play the left channel or right channel for stereophonic sound, like you would hear when using headphones or surround sound. Choose the left channel on the speakers mounted to one side of a room; choose the right channel for the other side.

To hear both the left and right channels on all the speakers, like you would hear at a store or mall, use the mono channel.

## Important Notes

**Location**
Do not use the wireless transmitter near a microwave.
Do not install this system in a damp or wet location.

**Dimming**
The railtones speakers are designed to function even if your lighting system uses a dimmer. However, the speakers may not turn on if the dimmer is set below 50%. To turn the speakers on when a dimmer is in use, increase power to 100% before dimming the lighting system. When the lighting system is dimmed to a certain point, the speakers will switch to a "low power mode" and maximum volume will be reduced. The volume will not automatically increase if the lighting system is returned to full power: the volume must be turned back up with the remote. Transformers, lights, and dimmers can vary significantly. Using the railtones speakers with a dimmer will produce varying results depending on the configuration of your lighting system.

**Interference**
·This device complies with Part 15 of the FCC Rules.  Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.  This device contains FCC ID: XCO-HSMD2DIA80 and IC: 7756A-HSMD2DIA80

Changes or modifications to the system not expressly approved by Tech Lighting could void the user's authority under FCC guidelines to operate the equipment.

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## What's in the box

**Transmitter (1)** is connected to an audio device and a power source (power adapter included). When plugged into a computer's USB port, the computer provides both the audio signal and power.

**Speakers (2)** mount to the lighting system for power and connect wirelessly to the transmitter for the audio signal.

**Remote (1)** controls speakers individually. It can turn speakers on and off, select equalizer settings, and adjust volume.
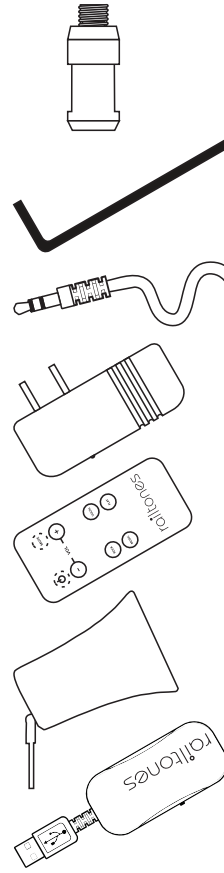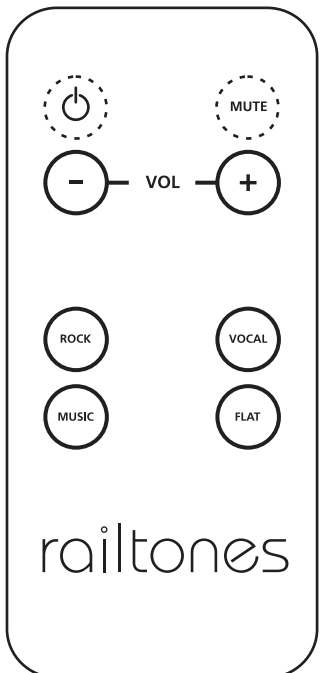
**Power Adapter (1)** provides power to the transmitter so it can be used with an audio device other than a computer.

**3.5mm audio cable (1)** connects an audio device to the transmitter.

**Allen Key** can be used to tighten the speaker pivot joint if the speaker starts to droop from the desired tilt angle.

**MonoRail adapter** is included only with MonoRail railtones kits and is used to mount the speaker to MonoRail low-voltage lighting systems.

## Product Specifications

**railtones Speakers**
Rated output: Maximum 15 Watts each
Channels: Left, right, or combined mono
Dimming: Speakers will operate even when dimmed below 5%

**railtones Transmitter**
Range: up to 100 feet
Frequency: 2.4 GHz
Transmission format: Digital
Signal Zones: 3
Audio input: 3.5mm audio jack or USB port
Power input: 5 Volt DC

**railtones Remote Control**
Range: up to 30 feet, line of sight
Signal type: infrared

**System Requirements for USB audio**
Powered USB Port
Microsoft Windows 98SE or newer.
Mac OS 9.2.1 or newer.

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# railtones™

**LBL Lighting**
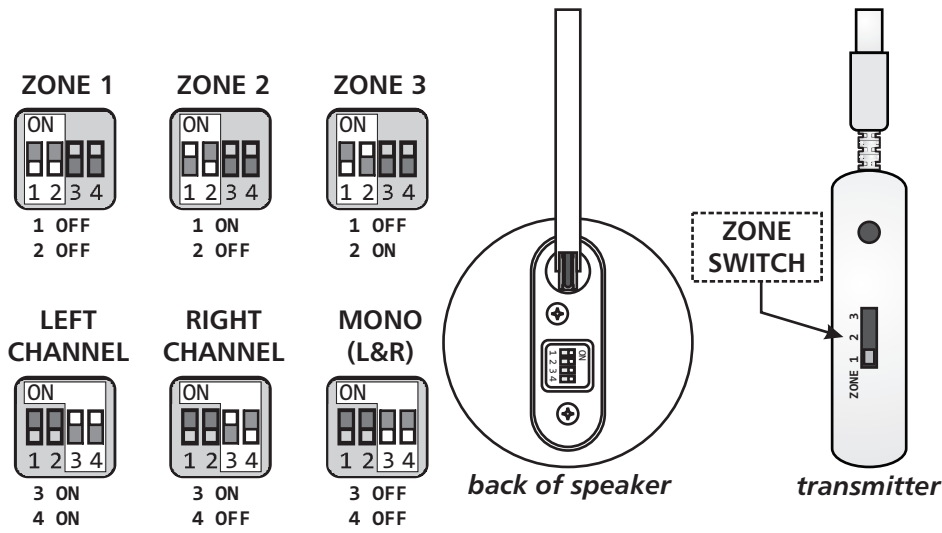
## Setting up the speakers

The default setting for the speakers is Zone 1 and mono sound (left and right channels combined).

To change the zone or channel setting, first turn off power to the lighting system or disconnect the speaker from the lighting system. The speaker status light should be off. Next, lift up the cover on the back of each speaker to access the switch panel. Toggle the switches to select the zone and channel according to the diagrams below.

**ZONE 1**
ON
1 2 3 4
1 OFF
2 OFF

**ZONE 2**
ON
1 2 3 4
1 ON
2 OFF

**ZONE 3**
ON
1 2 3 4
1 OFF
2 ON

**LEFT CHANNEL**
ON
1 2 3 4
3 ON
4 ON

**RIGHT CHANNEL**
ON
1 2 3 4
3 ON
4 OFF

**MONO (L&R)**
ON
1 2 3 4
3 OFF
4 OFF

ZONE SWITCH

*back of speaker*

*transmitter*

STATUS LIGHT

### SPEAKER STATUS LIGHT

| Connected to Transmitter | No Connection |
|---|---|
| Solid Blue | Solid Red |

### TRANSMITTER STATUS LIGHT

| Connected to Speaker | Connecting to Speaker | No Connection |
|---|---|---|
| Solid Blue | Blinking Red and Blue | Solid Red |

## Troubleshooting

**The transmitter will not turn on.**
1. Make sure the transmitter is completely plugged in to the power adapter or USB port. Unplug it and plug it back in. Avoid using USB hubs, or USB ports on keyboards or monitors. Plug the transmitter directly into a port on the computer.
2. Make sure the power adapter is not plugged in to a switched outlet.

**Some speakers connect to the transmitter, but some do not.**
1. Make sure the speakers that don't connect are set to the same zone as the transmitter.
2. Try turning the wall switch to the lighting system off then on.
3. Move the speakers closer to the transmitter.

**None of the speakers connect to the transmitter.**
1. Make sure the transmitter has power. If plugged into a computer, the computer must be turned on. If using the power adapter on a switched outlet, make sure the switch is on.
2. Make sure the transmitter is set to the same zone as the speakers.
3. Move the transmitter closer to the speakers.

**Some speakers will not play music, but they are connected to the transmitter.**
Use the remote control to make sure that the speaker is on, the volume is turned up, and the speaker is not muted.

**I press play in my media player, but the music is still coming out of my PC speakers.**
1. The transmitter must be plugged in before opening your media player or streaming audio. Close all programs, unplug the transmitter, wait 10 seconds and plug it back in. Use a different USB port if available. It may be necessary to restart your computer.
2. Make sure the railtones transmitter is selected as the audio output device.
    **Mac:** Follow the steps in the transmitter installation section.
    **Windows:** Click **Start**, then click **Run.** Type **mmsys.cpl** in the window and click OK. The **Sounds and Audio Devices Properties** window will open. In the Audio tab, click the Sound Playback default device pulldown menu, select **USB Headset** and click OK.

**I press play in my media player/mp3 player/stereo, but I don't hear any music.**
1. Make sure power is on to the lighting system and transmitter.
2. Check the status lights for connection problems.
3. Turn up the volume on your computer or audio device.

**The remote control does not work.**
1. Move closer to the speaker and aim the remote control directly at the speaker grille.
2. Replace the remote control's battery.

**My railtones speakers play music when my transmitter/computer/stereo is turned off.**
There may be another railtones system nearby using the same zone. Toggle the switch on the transmitter and the switches on each speaker to use a different zone for your system.

## Connecting the transmitter to a computer with MS Windows

**1. IMPORTANT**: Close all programs and Web pages playing audio (e.g. Windows Media Player, iTunes, Pandora) before plugging in the transmitter.

**2.** Set the transmitter zone switch to the same zone as the speakers.

**3.** Plug the transmitter's USB plug to a USB port directly on the computer **(Figure 1).** Windows will automatically detect and install the driver for the railtones transmitter. If the "Found New Hardware Wizard" appears, follow the steps in the wizard and select the default options in each step.

**4.** When driver installation is complete, the railtones system will be the default audio output device. Wait 10 seconds for the transmitter to connect to the speakers.

The railtones system is now ready to use.

## Connecting the transmitter to a computer with Mac OS

**1.** Set the transmitter zone switch to the same zone as the speakers.

**2.** Plug the transmitter's USB plug into a USB port directly on the computer **(Figure 1).** Mac OS will automatically detect and install the driver for the railtones transmitter.

**3.** Select the railtones transmitter as the audio output device.
    **a.** Click the Apple logo in the menu bar and select **System Preferences**.
    **b.** Click the **Sound** icon and open the **Output** tab.
    **c.** Select the **USB Headset** device and close the window.

The railtones system is now ready to use.
*Tip: iPhone and iPod Touch owners with a Wi-Fi connection can use Apple's Remote Application to wirelessly control iTunes.*

## Connecting the transmitter to an audio device

**1.** Set the transmitter zone switch to the same zone as the speakers.

**2.** Connect an MP3 player or other device to the transmitter using the 3.5mm audio cable **(Figure 2).** To connect to a stereo receiver, DVD player, or other device with RCA jacks, use an RCA jack adapter instead of the 3.5mm cable **(Figure 3).** RCA jack adapters are available at most electronics stores.

**3.** Plug the power adapter into the wall.

**4.** Plug the USB plug on the transmitter into the power adapter. Wait 10 seconds for the transmitter to connect to the speakers.

The railtones system is now ready to use.

*figure 1*

USB PORT

*transmitter*          *computer*

*figure 2*

EARPHONE PORT

3.5MM AUDIO CABLE

railtones

*transmitter*          *power adapter*

*mp3 player*

*figure 3*

RCA JACK ADAPTER (sold separately)

railtones

*transmitter*          *power adapter*

*stereo receiver, DVD player or other device with RCA jacks*