



**Music Sphere**  
**Wireless Remote Speaker System**  
**Model: WRS368**  
**User Manual**



## IMPORTANT SAFETY INSTRUCTIONS

The Music Sphere Wireless Remote Speaker System is designed to give you years of service if handled properly. Ensure that you heed all warnings to minimize product malfunction and reduce the chances of incurring personal injury. Before using the unit, observe the following guidelines to ensure proper care and maintenance.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

To prevent fire or shock hazard, do not use this plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

### READ INSTRUCTIONS

All safety and operating instructions should be read and followed before operating the product and should be retained for future reference. All warnings on the product and in the operating instructions should be adhered to.

### CLEANING

Unplug all adaptors and cables from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

### ATTACHMENTS

Do not use attachments not recommended by Oregon Scientific as they may cause hazards.

### WATER AND MOISTURE

Do not use this product near water – for example, near a bathtub, washbowl, kitchen sink or laundry tub; in a wet basement; or swimming pool; and the like.

## ACCESSORIES

Take care when placing the product on an unstable cart, stand, tripod, bracket or table. Quick stops, excessive force and uneven surfaces may cause the system to overturn and fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by Oregon Scientific, or sold with the product.

## VENTILATION

Slots and openings in the product are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings should never be blocked or covered by placing the product on a bed, sofa, rug or other similar surface. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or Oregon Scientific's instructions have been adhered to.

## HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

## POWER SOURCES

The system should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your Oregon Scientific dealer or local power company. For products intended to operate battery power, or other sources, refer to the operating instructions.

## GROUNDING OR POLARIZATION

The product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. The product may be equipped with a 3-blade grounding-type plug, a plug having a third (grounding) pin. This plug should only fit into a grounding-type power outlet.

Both plugs are safety features of the product. If either plug is unable to fully insert into its respective outlet, try reversing the plug. If the plug should still fail to insert, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the polarized or grounding-type plug.

## POWER-CORD PROTECTION

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

## PROTECTIVE ATTACHMENT PLUG

The product is equipped with an attachment plug having overload protection. This is a safety feature. See user manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by Oregon Scientific that has the same overload protection as the original plug.

## OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI / NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

## LIGHTNING

For added protection for the system during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect any cables. This will prevent damage to the system due to lightning and power-line surges.

## POWER LINES

An outside antenna system should not be located near any overhead power lines or other electric light or power circuits, or when it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

## OVERLOADING

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

## OBJECT AND LIQUID ENTRY

Never push objects of any kind into this product through the openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.

## DAMAGE REQUIRING SERVICE

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Unplug the system from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord, plug or cables have been damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the system has been exposed to rain or water.

- If the system does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the system has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance – this indicates a need for service.

## REPLACEMENT PARTS

When parts need replacing, ensure the authorized service center uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock or other hazards.

## SAFETY CHECK

After repairs or service, ask the authorized service center to perform safety checks to confirm that the unit is in proper working condition (if you have the product serviced, remember to bring the entire system so the authorized service center may have access to all the necessary components in the system).

## WALL MOUNTING

The product should be mounted to a wall only as recommended by Oregon Scientific.

## MAINTENANCE

- Do not subject the product to extreme impact, shock or fluctuations in humidity.
- Do not make any changes or modifications to the product. Unauthorized changes may void your right to use the product and invalidate the warranty.
- Do not tamper with internal components or attempt to service the product yourself. If any electronic circuitry is exposed, do not, under any circumstances, touch the circuitry as there is a danger of electric shock.
- The unit should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the unit.
- Do not scratch hard objects against the LCD as the surface can be easily damaged. Take special care when handling a damaged LCD, as the liquid crystals can be harmful to your health.
- Do not use or store the unit in locations that may adversely affect the product such as rain, snow, moisture, dust or desert. Keep your player in a dry, well-ventilated place to prevent it from molding.
- Do not place this unit in direct sunlight for long periods. This may deform or discolour the cabinet and may cause malfunction.
- Keep this unit away from strong magnetic fields. Exposure to magnetic fields may cause a loss to the wireless signal reception or even damage the unit's internal circuitry.



- Stains on the unit should be wiped off with a soft, lint-free cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean. Remember to unplug the unit from the wall outlet before cleaning.
- Never use alcohol, solvent, aerosol cleaners, chemical, paint thinner or benzene to clean the unit.
- The speaker grille requires no special care, although you may pull the grille out from the unit and clean or vacuum the individual grille holes carefully if necessary.
- The temperature around the center unit must be between 5°C and 35°C (41°F and 95°F). Operating the unit in temperatures outside this range will increase the risk of damage and malfunction.
- Ensure the equipment is installed near a socket-outlet and easily accessible.
- Protect the cables from being walked on or pinched particularly at plugs, receptacles, and the point where they exit from the product.
- Do not run power cords under rugs or carpets or place heavy objects on them.
- When unplugging the AC adaptors from the wall outlet or unplugging any cables from the speaker or Transmitter, always pull the plug or connector, not the cord.
- Ensure the cables are correctly connected. Improper connections may damage the system due to short-circuiting.
- Listening to music at high volume for long periods of time may damage your hearing. Keep the volume at a moderate level.
- The technical specifications for this product and the contents of the user manual are subject to change without notice.



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**EC-Declaration of Conformity** ..... 13

**Music Sphere  
 Wireless Remote Speaker System  
 Model: WRS368**

**USER MANUAL**

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## INTRODUCTION

Thank you for selecting the Oregon Scientific™ Music Sphere Wireless Remote Speaker System (WRS368) as your personal product of choice. The Wireless Remote Speaker is an ultra-portable unit that lets you listen to audio from almost anywhere in the home or office regardless of where the audio source is located.

The sleek, spherical Wireless Remote Speaker plays back crystal-clear sound from up to 3 different audio sources, for example, a stereo, DVD home theater, MP3 player, CD player, television or radio connected to a Transmitter that transmits wireless signals to the speaker with a range of up to 30 meters (98 feet).

The Wireless Remote Speaker is equipped with remote "learning" and remote "repeat" functions, which enables the remote control device of any connected audio source to control speaker functions. Similarly, you can use the remote control device and conveniently control audio source functions direct from the speaker, without having to point the remote control toward the source.

Other features include:

- Wireless transmission using 2.4GHz digital radio frequency at a range of up to 30 meters (98 feet)
- FHSS technology eliminates interference
- 2.1 speaker system
- Total power output of 6W
- Adjustable bass and treble controls
- 3-colour LCD backlight for easy viewing
- Clock
- Wall mount kit for remote speaker
- Unique, portable, go-anywhere design

## GETTING STARTED

### UNPACKING

When you unpack your Wireless Remote Speaker, make sure to keep all the packing materials in a safe place, in case you need to later return it for servicing.

In this box you will find:

- Wireless Remote Speaker
- Transmitter
- 9V AC adaptor for Wireless Remote Speaker
- 9V AC adaptor for Transmitter
- Y audio cable
- Wall-mount unit
- 4 screws for wall-mount unit
- Allen key
- Lint-free cloth
- User manual
- Quick start guide
- Warranty card

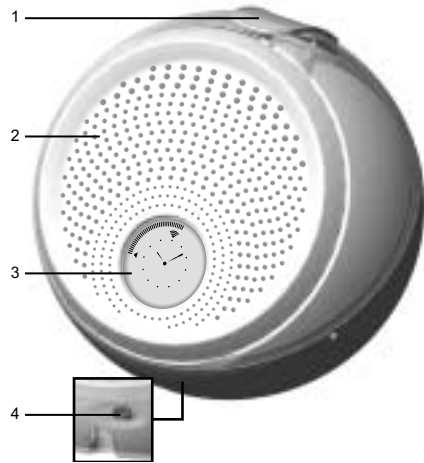
**NOTE** Please observe the local regulations regarding the disposal of packing materials, dead batteries and old equipment.

**NOTE** This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

## PRODUCT OVERVIEW

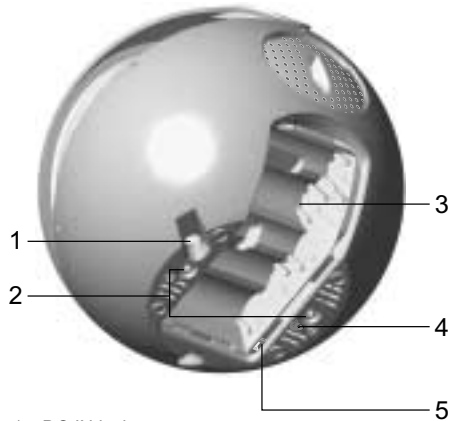
### WIRELESS REMOTE SPEAKER

#### FRONT VIEW



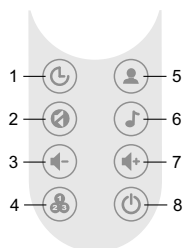
1. Control panel
2. Speaker grille
3. LCD display
4. Infrared sensor

#### BACK VIEW



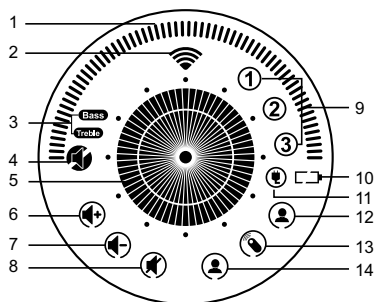
1. DC IN jack
2. Screw holes for wall mount
3. Battery compartment
4. Reset
5. Channel switch

## CONTROL PANEL



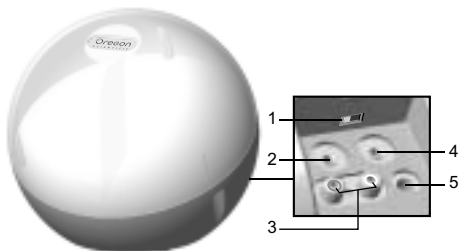
1. Clock set
2. Mute
3. Volume down
4. Audio source selection
5. Remote learner
6. Equalizer
7. Volume up
8. Power on / off

## LCD DISPLAY



1. Volume bar
2. Reception status
3. Bass and treble
4. Mute on / off
5. Clock
6. Learning function - volume up
7. Learning function - volume down
8. Learning function - mute
9. Audio sources 1, 2 and 3
10. Low-battery indicator
11. AC power indicator
12. Learning status - confirmed
13. Learning status - learning
14. Learning status - activated

## TRANSMITTER



1. Channel switch
2. Line-in jack (audio source ③)
3. RCA red / white input jack (audio source ①)
4. Line-in jack (audio source ②)
5. DC IN jack

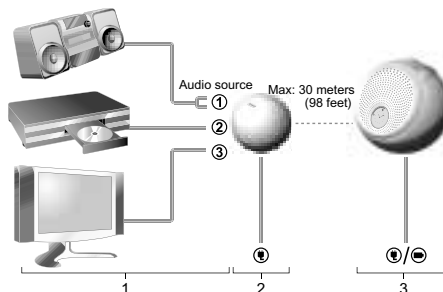
## CONNECTING THE WIRELESS REMOTE SPEAKER

**CAUTION** To avoid being exposed to any radio frequency emission, the Wireless Remote Speaker and Transmitter should be placed at least 20cm (8 in) away from nearby persons.

For the Wireless Remote Speaker to playback audio from up to 3 audio sources, you must first connect each audio source to the Transmitter. For example, you can have your stereo connected as source ①, your DVD player as source ② and your TV as the third audio source.

An audio signal is transmitted from the Transmitter to the Wireless Remote Speaker via a radio frequency data channel at a range of up to 30 meters (98 feet). The speaker then regenerates sound from an audio source similar to a speaker that is directly connected to a source.

**NOTE** The transmitter and speaker should each be set to the same channel to ensure proper signal transmission. If the transmitter is set to A, the speaker should also be set to A. If a second transmitter and speaker is used, the channel for each of these units should be set to B. Simply slide the channel switch to the appropriate channel.



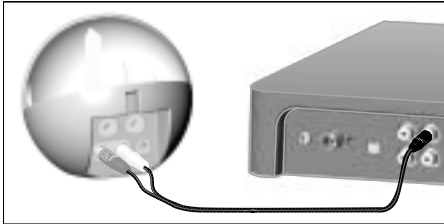
1. Connecting audio sources to the Transmitter using the supplied Y cable or a standard stereo cable (read following section on "CONNECTING AUDIO SOURCES TO THE TRANSMITTER" for more information)
2. Connecting the AC adaptor to the Transmitter
3. Connecting the AC adaptor or installing batteries to the Wireless Remote Speaker



### CONNECTING AUDIO SOURCES TO THE TRANSMITTER

Use the Y audio cable to connect audio source ① to the Transmitter:

1. On one end of the cable are red / white connectors. Plug them into the RCA red / white input jack at the back of the Transmitter.
2. At the other end of cable is a stereo connector. Plug the connector into the line-out jack of the audio source.



**TIP** Your audio source may require the red / white connector plugged in instead of the stereo connector. If so, simply plug the Y cable's stereo connector to a line in jack on the Transmitter, as shown below.

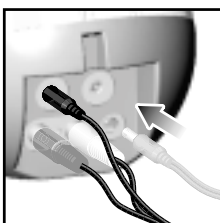


3. To connect a second and third audio source (audio source ② and audio source ③), use another Y audio cable or stereo cable (in which both ends are stereo connectors) and connect the audio sources to the Transmitter's stereo jacks.

**TIP** The line-out jacks on the audio source may already be occupied by other connectors. If the audio source has a headphone jack available, the stereo connector can be plugged into the headphone jack as an alternative line-out connection.

**NOTE** It is not necessary to prioritize the connections. That is, if you are connecting just 1 audio source you do not need to connect it to the Transmitter's audio source ① jack. It can be connected to the audio source ②, or ③ line-in jack instead, depending on whether a Y cable or stereo cable is used.

### CONNECTING THE AC ADAPTOR TO THE TRANSMITTER

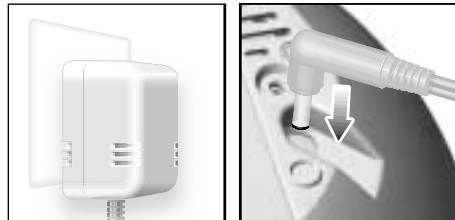


1. Connect the AC adaptor connector into the DC IN 9V jack at the back of the Transmitter.
2. Plug your AC adaptor into an electrical socket.

**NOTE** Always use the supplied 9V AC power adaptor that is designed specifically for the Transmitter only. Using any other AC power adaptor may cause the unit to malfunction and increase the risk of fire or injury.

**NOTE** Should you notice any abnormality in the Transmitter AC adaptor, disconnect it from the electrical socket and Transmitter immediately.

### CONNECTING THE AC ADAPTOR TO THE WIRELESS REMOTE SPEAKER



1. Connect the AC adaptor into the DC IN 9V jack on the Wireless Remote Speaker as shown in the diagram.
2. Plug your AC adaptor into an electrical socket. You will see ④ appear on the LCD when the speaker is powered on (see section on "BASIC SPEAKER OPERATION" for more information).

**TIP** Using the AC adaptor will help to save on batteries.

**NOTE** Always use the supplied 9V AC adaptor that is designed specifically for the Wireless Remote Speaker only. Using any other AC adaptor may cause the unit to malfunction and increase the risk of fire or injury.

**NOTE** Should you notice any abnormality in the Wireless Remote Speaker AC adaptor, disconnect it from the electrical socket and speaker immediately.

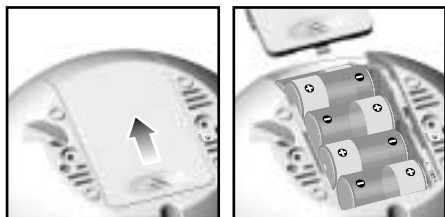
### INSTALLING BATTERIES INTO WIRELESS REMOTE SPEAKER

While using the AC adaptor to operate the Wireless Remote Speaker will help to save on batteries, the option to use batteries provides added flexibility and portability to move and place the unit almost anywhere without being restricted by cables.


The Wireless Remote Speaker requires 6 "C" batteries (not included). To install the batteries:

1. Open the battery compartment cover.
2. Insert 6 "C" batteries into battery compartment according to the correct polarity indicators.
3. Close the battery cover.





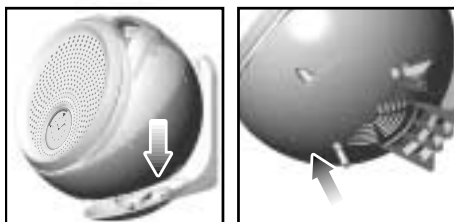
**NOTE** In a non-controlled environment, many factors can affect battery life, such as volume, LCD backlight and temperature. When the batteries are not used for a long period of time, remove them to save battery power.

**NOTE** When the batteries are becoming low on power , appears on the right side of the LCD and the LCD backlight dims.



**NOTE** Do not use different types of batteries together or mix new batteries with old ones. When any of the batteries are depleted, replace all batteries with new ones.

#### INSTALLING THE WALL MOUNT UNIT (OPTIONAL)

The Wireless Remote Speaker is equipped with rubber supports to give your unit a stable base while placed on any a flat surface.




However, you have the option to fix the location of your speaker against the wall using the supplied L-shaped wall-mount unit and 4 screws:

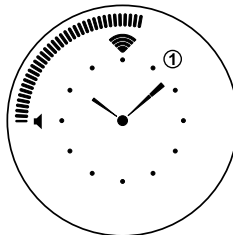
1. Position the wall-mount unit's vertical panel onto the area of the wall where you would like to hang the unit.
2. Secure the 15mm (0.6 in)  screws into the corresponding holes of the vertical panel until it is firmly fixed against the wall.
3. Place the Wireless Remote Speaker onto the horizontal panel of the wall-mount unit, making sure to align the 2 screw holes of the horizontal panel with those of the speaker.
4. Insert the remaining two 10mm (0.4 in)  screws into the aligned holes and secure the speaker onto the horizontal panel. The wall-mount unit and speaker should be securely fixed in place.


#### BASIC SPEAKER OPERATION



Once the audio sources are properly connected to the Transmitter, and the AC adaptors connected to the Transmitter and Wireless Remote Speaker (or batteries inserted into the speaker), you are ready to operate the unit.


#### POWER ON / OFF


1. To turn on the Wireless Remote Speaker, press the  button located on the unit's Control Panel.



The volume bar, speaker icon, clock, reception status icon  and audio source number all appear on the LCD. The LCD backlight also turns on.

If the Wireless Remote Speaker is receiving a signal from the Transmitter,  is displayed on the LCD. If the icon does not appear, power off the unit and then turn it back on to reset the signal. Make sure  appears full.



**NOTE** If  appears on the LCD, the reception signal is interrupted or the speaker is out of range of the Transmitter. The audio source number will not show on the display and the LCD backlight turns off. See section on "TROUBLESHOOTING" for more information.

2. To power off your Wireless Remote Speaker, press the  button again (the clock remains on even when the speaker is turned off).



**NOTE** The Wireless Remote Speaker should be turned off even if the power at the audio source has been turned off.

**TIP** When left unused for a long period of time, the unit should be unplugged from the electrical socket. If you are using batteries to operate the Wireless Remote Speaker, remove them to save battery power.

#### ADJUSTING VOLUME





1. To increase volume, press the  button once. To continuously increase volume, press and hold the  button down until the desired volume level is reached.

**NOTE** Do not turn up the volume while listening to a portion of audio with very low-level inputs or no signals. If you do, the speaker may become damaged when a peak level portion is played.

2. To decrease volume, press the  button once. To continuously decrease volume, press and hold the  button down until the desired volume level is reached.

**NOTE** Before playing back audio from any source, decrease the volume of the connected device to avoid damaging the speaker.

#### MUTE FUNCTION

1. To mute the sound of the Wireless Remote Speaker, press the  button.  will appear on the LCD.
2. To deactivate the mute function, press the  button again.  will appear on the LCD.



**NOTE** If you increase (or decrease) the volume while the speaker is on mute, the Mute function will deactivate and the volume will turn on again.

#### ADJUSTING BASS AND TREBLE

Adjusting the Wireless Remote Speaker's bass and treble settings allows the device to playback audio with a different range of sound and tonal effects.

To adjust the bass sound:

1. Press the button once. **Bass** appears on the LCD.
2. Use the / buttons to increase or decrease the bass. To continuously increase or decrease the bass, press and hold the / button down until the desired bass level is reached.
3. Press the button again. **Treble** appears on the LCD.

To adjust the treble sound:

1. Use the / buttons to increase or decrease the treble. To continuously increase or decrease the treble, press and hold the / button down until the desired treble level is reached.
2. Press the button once to exit.

**NOTE** "Auto quit" activates when idle for more than 10 seconds.

#### CHANGING AUDIO SOURCES

If all audio source cables are properly connected to the Transmitter, you may change to and from any source with a convenient press of the button. The LCD backlight changes colour to indicate the change in audio source.

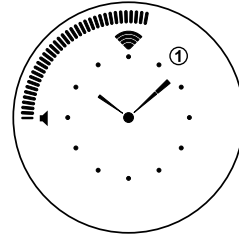
AUDIO SOURCE	LCD COLOUR
Source ①	Blue
Source ②	Red
Source ③	Green

1. To change the audio source, press the button. The default setting is source ① .
2. Press the button again to change the audio source to source ② . The audio source icon will change from Source ① to Source ② .
3. Press the button a third time to select the third audio source.
4. To change the audio source at any time, repeatedly press the button until the desired source is shown on the LCD.

#### SETTING THE CLOCK

To set the time:

1. Press the button. Both hands on the clock will begin flashing.
2. Use the / buttons to set the time: press the button once to advance the clock by 1 minute and press the button to turn the clock back by 1 minute. Press and hold the / buttons down to set the time faster.
3. Press the button to confirm the newly set time and exit the clock setting mode.



**NOTE** The clock can only be adjusted by minute increments and not by hour increments.

**NOTE** No other buttons can be pressed while the setting clock function is on. "Auto quit" activates when the function is idle for more than 30 seconds; the last time that was set prior to idling is not saved.

**NOTE** Regardless of whether your Wireless Remote Speaker is powered on or off, the clock will still show on the LCD.

#### THE REMOTE LEARNING FUNCTION

**NOTE** Oregon Scientific does not assure the compatibility of this product with all Audio / Video devices existing in the market.

The Remote Learning function allows you to use a remote control device of an audio source(s) connected to the Transmitter to adjust the Wireless Remote Speaker's volume and activate the mute function, regardless of where the audio source is located. Essentially, the remote control device of the audio source, for example, a DVD player, becomes the speaker's remote control device.

**NOTE** Make sure you are using fresh batteries in both the audio source's remote control and in the Wireless Remote Speaker, if used.

**NOTE** Incandescent or low-energy light can cause interference with the infrared transmissions. When using the Learning function, keep the audio source's remote control and Wireless Remote Speaker at least 0.9 m (3 feet) away from such light sources.

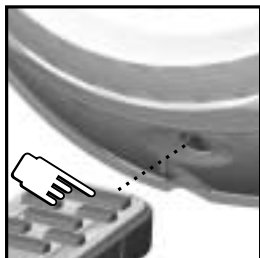
**NOTE** "Auto quit" activates when idle for more than 60 seconds.

#### LEARNING TO INCREASE VOLUME USING THE AUDIO SOURCE REMOTE CONTROL DEVICE

To teach your remote control device to increase volume:

1. Check that your desired audio source is displayed on the LCD. You may choose from any of the 3 sources.
2. Point the top of your audio source's remote control device at the base of the Wireless Remote Speaker so the infrared sensor on the remote control is in line with the infrared sensor located at the bottom of the speaker.

**TIP** The distance between remote control device and speaker should be no more than approximately 38 mm (1.5 inches) apart. This is to ensure the infrared signal from the audio source's remote control device is captured by the Wireless Remote Speaker during the learning session.



3. On the speaker, press the button once. and will appear flashing simultaneously on the LCD for 3 seconds. will remain flashing while will flash in place of .
4. Press the volume up button on the remote control device of your audio source while pointing the remote control device at the speaker. stops flashing once a signal is received. then appears and begins flashing, indicating that the remote control device has confirmed learning the function.
5. Press the button 3 times to exit the Learning mode, or press once to learn to decrease volume.

The volume up button of your remote control device has now learned to increase the volume on your Wireless Remote Speaker when pressed.

#### LEARNING TO DECREASE VOLUME USING THE AUDIO SOURCE REMOTE CONTROL DEVICE

To teach your remote control device to decrease volume:

1. Press the button twice or once if you previously learned to increase volume. and will appear flashing simultaneously on the LCD for 3 seconds. will remain flashing while will flash in place of .
2. Press the volume down button on the remote control device of your audio source while pointing the remote control device at the speaker. stops flashing once a signal is received. then appears and begins flashing, indicating that the remote control device has confirmed learning the function.
3. Press the button 2 times to exit, or press once to learn to mute the volume.

The volume down button of your remote control device has now learned to decrease the volume on your Wireless Remote Speaker when pressed.

#### LEARNING TO ACTIVATE THE MUTE FUNCTION USING THE AUDIO SOURCE REMOTE CONTROL DEVICE

To teach your remote control device to activate the Mute function:

1. Press the button 3 times or once if you were previously learning to decrease volume. and will appear flashing simultaneously on the LCD for 3 seconds. will remain flashing while will flash in place of .
2. Press the mute button on the remote control device of your audio source while pointing the remote control device at the speaker. stops flashing once a signal is received. then appears and begins flashing, indicating that the remote control device has confirmed learning the function.
3. Press the button once to exit the Learning mode.

The mute button of your remote control device has now learned to activate or deactivate the mute function on your Wireless Remote Speaker when pressed.

**TIP** You can repeat these steps with any of the 3 audio sources but you must use the remote control device of the particular audio source. For example, you can only use the remote control device of audio source ① to adjust audio source ① volume and mute, not audio source ②.

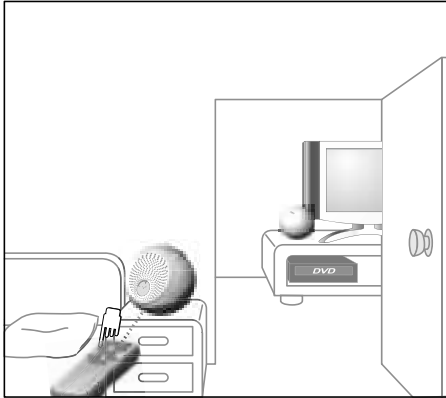
**TIP** After the remote control device has successfully learned to increase, decrease and mute speaker volume, you no longer need to point the remote control device 38 mm (1.5 inches) from the speaker; instead, you may use the remote control device to increase volume up to 7 meters (23 feet) in open space away from the speaker.

#### THE REMOTE REPEAT FUNCTION

With the Remote Repeat function, you can adjust the numerous audio source functions using its remote control device, such as fast-forward, rewind, repeat, play, stop, pause, and so on - right from the speaker. There is no need to go to the audio source to control these functions because you can simply point its remote control device toward the speaker and control the functions.

For example, you may have 2 audio sources - a DVD player and a TV - connected to the Wireless Remote Speaker and both are located in the living room, while the speaker is located in a bedroom. From the bedroom, you can:

- Point the DVD player's remote control device at the Wireless Remote Speaker's infrared sensor to fast-forward to a movie scene on the DVD or repeat a certain scene.
- Point the TV remote control device at the speaker and press the corresponding button to change the TV channel.



**NOTE** The Remote Repeat function is valid only after the remote control device of an audio source previously learned at least 1 Remote Learning function successfully.

**NOTE** If the audio source (for example, audio source ①) is a DVD player and its remote control device has successfully undergone Remote Learning, the Wireless Remote Speaker will remember the source and its remote control device even if the source has been disconnected from the Transmitter and later reconnected. If the same audio source ① has been replaced by a new source such as a TV, the Remote Learning and Remote Repeat functions of the previous source (DVD player) will no longer be valid and will not work for the TV. The remote control device of the new audio source must learn to adjust volume and activate / deactivate mute function as well as learn the remote repeat function specific for the new audio source, in this case, the TV.

## TROUBLESHOOTING

Use this troubleshooting guide to help you remedy any difficulties you may be experiencing while using the Wireless Remote Speaker. Should any problem persist after you have checked these symptoms, consult your nearest Oregon Scientific dealer.

### Why does the Wireless Remote Speaker not power on at all?

Ensure the power cord is firmly plugged into the power outlet. On the rare occasion, the unit may not operate due to data signal interference or static electricity. Turn the power off and unplug the unit from the power outlet briefly, and then plug it in again so it will reset itself and turn the speaker on.

The AC adaptor must be correctly connected to the corresponding unit it is designed for. The Wireless Remote Speaker and Transmitter will not work if you wrongly plug the Transmitter's AC adaptor into the speaker and the speaker's adaptor into the Transmitter.

### Why does the power keep turning off after turning on?

The batteries may have run out of power or are not correctly aligned with their polarity. Re-install batteries checking the polarity; if the unit still does not operate, insert new batteries into the unit.

### How do I eliminate the severe hum, distortion or noise that is coming from the Wireless Remote Speaker?

The speaker may be positioned too closely to the audio source, such as a TV or radio. Move the speaker at least 0.9 meters (3 feet) away from the source.



Check that the speaker's position and connections are clear of any strong magnetic fields or radio frequencies such as Bluetooth, wireless LAN, microwaves or fluorescent light, which may interfere with reception. Similarly, make sure the speaker is not placed near any 2.4GHz DECT phones or mobile phones, whose frequencies can interfere with wireless transmission between the remote control device and speaker.

The plugs and jacks may be dirty, affecting the connections and thus causing sound distortion. Wipe clean. In some cases, volume might not be appropriately adjusted. Adjusting the volume will help to clear any hum or distortion.

There may be excess moisture condensed inside the speaker or on the speaker grille that might affect the unit's ability to produce audio, especially after turning on heating in the room, if the room is damp, or if the speaker is brought directly from a cold to a warm place. In this case, leave the system turned off for a few hours until moisture evaporates, unplug the AC power cord and then plug it in again.

Alternatively, press the **RESET** button at the bottom of the speaker to reset the unit and check to see if the unit resumes operation.

### The Wireless Remote Speaker is powered on but why is it not emitting any sound?

Check to ensure the power is on and increase the volume. If there is still no sound, check to see if  is lit on the LCD. If it is, press the  button on the speaker control panel or from the appropriate button on the remote control device of the audio source to unmute the speaker.

Data signal interference or static electricity may disrupt the signal reception from the audio source. Power off the speaker, wait a few seconds, and turn the unit back on. Alternatively, press the **RESET** button at the bottom of the speaker to reset the unit.

### Why is the remote control device not working?

Check the batteries are loaded correctly with the correct polarity. If they are low or exhausted, replace the batteries. Make sure the remote control is not being operated outside the range of 7 meters (23 feet), and that no obstacles stand between the remote control device and the unit that may affect wireless reception.



The wrong audio source may have been selected. Check that the correct source is selected and make sure to point the remote control device directly toward the infrared sensor.

The Wireless Remote Speaker supports an overwhelming majority of infrared remote control devices operating on a different range of frequencies. However, Oregon Scientific does not assure the compatibility of this product with all Audio / Video devices existing in the market. For example, a device that is an RF-only device or uses high frequency infrared cannot learn from the speaker. If your device falls in this category, use a different audio source whose remote control device uses a frequency transmission supported by the Wireless Remote Speaker.

#### Why is the Remote Learning function not working?

The wrong keys on the remote control device may have been pressed or the wrong remote control device may have been used to point toward the Wireless Remote Speaker. It is also possible that the remote control device learned the wrong keys.

Press the **RESET** button at the bottom of the speaker to reset the unit and go back to the beginning of the Remote Learning session and closely follow the steps and ensure the correct remote control device keys are learned, taking note of the correct LCD icons flashing to confirm a learned function. Also, make sure that you are pressing the right keys and using the right audio source remote control device.

#### Why is the Remote Repeat function not working?

The remote control device may not have learned the Remote Learning function correctly prior to the Remote Repeat function. Ensure that Remote Learning must first be successfully implemented for Remote Repeat to work on a remote control device.

Data signal interference or static electricity may be disrupting the infrared signal frequency between the remote control device and Wireless Remote Speaker. Similarly, radio transmission between the speaker and Transmitter may also be disrupted. Power off the speaker, wait a few seconds, and turn the unit back on, and ensure that no objects or magnetic fields are interfering with reception.

#### Why is the Wireless Remote Speaker not responding when the buttons are pressed?

Remove and reconnect the AC power plug or reinsert the batteries and switch the speaker on again, checking that the power is on. If there is still no response, the speaker's control panel membrane may be damaged. Take the unit to a qualified Oregon Scientific dealer for servicing.

#### Why is there no signal transmission between transmitter and speaker?

The channel on the transmitter (e.g., A) is set to a different channel from the speaker (e.g., B). Both units should be set to the same channel to ensure proper signal transmission (e.g., both set to A or both set to B).

#### How do I eliminate signal jamming or interference?

Signals transmitted from devices nearby may jam or interfere with signals transmitted from the transmitter to speaker. If there is signal jamming or interference, try changing the channel on both units (from A to B or B to A). If there are 2 sets of the WRS368 transmitter / speaker, make sure one pair of the units is set to channel A and the other pair of units is set to channel B.

### SPECIFICATIONS

TYPE	DESCRIPTION
Dimensions (W x H x D)	Wireless Remote Speaker: 203 x 187 x 196 mm (8 x 7.4 x 7.7 inches)
	Transmitter: 114 x 106 x 114 mm (4.5 x 4.2 x 4.5 inches)
Radio transmission	Range of 30 meters (98 feet) in open space
Infrared sensor (remote speaker)	Range of 7 meters (23 feet)
Infrared generator (transmitter)	Full coverage of infrared beaming by at least 3 LEDs
Amplifier output	1.5W x 2 (+ 3W for subwoofer)
Audio system	THD: 0.5% at 1kHz S/N ratio: 60dB Channel separation: 35dB Level balance: +/- 3dB
Power sources	110V/60Hz or 230V/50Hz (AC) 6 x C-size batteries
Power consumption	Battery life of 5 days based on 4 hours of operation per day
Wireless audio transmission	2.4GHz digital transmission for stereo audio
Sound features	Equalizer (Bass, Treble in steps from -6 to +6)
Speaker system	2 stereo tweeters and 1 subwoofer by magnetic shield driver

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### FCC STATEMENT

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.

**WARNING** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

### DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at [www.oregonscientific.com](http://www.oregonscientific.com)), or on the warranty card for this product for all inquiries instead.

#### We

Name: Oregon Scientific, Inc.  
 Address: 19861 SW 95th Ave., Tualatin,  
 Oregon 97062 USA  
 Telephone No.: 1-800-853-8883  
 Fax No.: 1-503-684-3332

#### declare that the product

Product No.: WRS368  
 Product Name: Wireless Remote Speaker System  
 Manufacturer: IDT Technology Limited  
 Address: Block C, 9/F, Kaiser Estate,  
 Phase 1, 41 Man Yue St.,  
 Hung Hom, Kowloon,  
 Hong Kong

Is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.

### EC-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Music Sphere Wireless Remote Speaker System model WRS368 is in compliance with the essential requirements and other relevant provisions of Directive 1999 / 5 / EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.



#### COUNTRIES RTTE APPROVAL COMPLIED

All EC countries, Switzerland (CH) and Norway (N)



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