Sound of Light
Users Guide

Sound of Light User Guide Version 1, Rev.D, June 2011

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TRADEMARK STATEMENT

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Table of Contents

Table of Figures

About This User Guide

Audience

This document is written for users of the Sound of Light speaker system start-up kit.

Purpose

This document provides the following information for the Sound of Light system:
- System overview
- Installation instructions
- Operating instructions
- Troubleshooting information
- Support information

Conventions

Note: *Notes emphasize important information related to the topic.*

Tip
Tips provide technical information that might be helpful in performing the procedure.

Caution
Cautions indicate potential hazards to equipment and are included to prevent damage to equipment.

WARNING
Warnings indicate potential hazards to personal safety and are included to prevent injury.

More Information

For more information on the Sound of Light system, visit our website at www.soundoflights.com.

Important Safety Instructions

To ensure the Sound of Light product is installed safely, read the following safety instructions.

1. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

2. Do not use this apparatus near water.

3. Clean only with dry cloth.

4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

5. Only use attachments/accessories specified by the manufacturer.

6. Unplug this apparatus during lightning storms or when unused for long periods of time.

7. The light fixture power plug and on/off switch are used to disconnect from the main source of power. Any time you screw or unscrew the Sound of Light speaker from a light fixture, remove the power plug.

8. The added weight of the Sound of Light speaker might cause instability of a free-standing table lamp. Use only with portable lamps that are provided with lamp shades or similar.

9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

WARNING

To reduce the risk of electric shock, do not remove the cover thereby exposing electrical wires and parts. This product contains no user serviceable parts.

System Overview

Congratulations for purchasing the Sound of Light speaker system. This unique product enables you to replace a standard light bulb in a light fixture with a combination light and wireless speaker system. Rather than spending thousands of dollars wiring your home for premium sound, the Sound of Light system is a cost-effective alternative. The installation and setup of this system is quick and easy. In minutes you can be enjoying music from your MP3 player, computer, or stereo.

The Sound of Light system supports all common light bulbs, including incandescent and energy efficient fluorescent and LED.

Start-Up Kit Components

The Sound of Light start-up kit includes the following components:
- Sound of Light speaker and light combination
- Wireless transmitter
- Remote control
- Power supply
- Seven-inch light fixture harp
- 3.5mm mini stereo cable (1 meter)
- RCA cable (1 meter)
- Sound of Light Users Guide

Figure 1. Sound of Light Speaker System

Sound of Light Add-On Kit

The Sound of Light Add-On kit, sold separately, enables you to include additional Sound of Light speakers, up to a maximum of four for each transmitter.

The add-on kit includes the following components:

- Sound of Light speaker and light combination
- Seven- inch harp
- Sound of Light Users Guide

Installation Instructions

To install the speaker system, perform the following steps:

1. Ensure you have all the components included with the system. See "Start-Up Kit Components" earlier in this document.

2. Position the transmitter in the desired location.

   The transmitter can be located up to 200 feet from the Sound of Light speaker. For example, the transmitter can be located along with your current home entertainment system.

8

3. Connect the power supply cable to the transmitter. See Figure 2.

Power supply input

Pairing button

3.5mm input jack

RCA input jacks
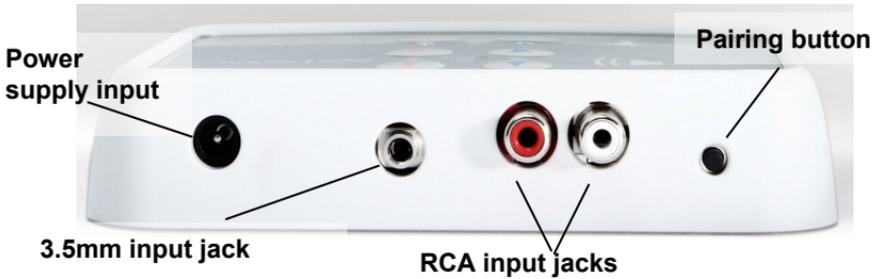
Figure 2. Transmitter Rear Panel

4. Plug in the power supply to a standard power outlet.

   This action causes the transmitter LEDs to flash in sequence and then go off.

5. Perform the following steps to your light fixture:

   a. Unplug the fixture and remove the shade.

   b. Remove the existing light bulb.

   c. Remove the mounting harp.

6. Select the audio channel for the Sound of Light speaker using the Channel Selection switch on the bottom of the speaker. See Figure 4.

   You can select the speaker channel to be Left or Right (to use in stereo as a pair) or Mono to use as a stand-alone unit.

   Note: If you do not have an add-on speaker use the Mono setting.

7. Screw in the Sound of Light speaker into the light fixture. See Figure 3.

Harp provided with kit

Previous harp location
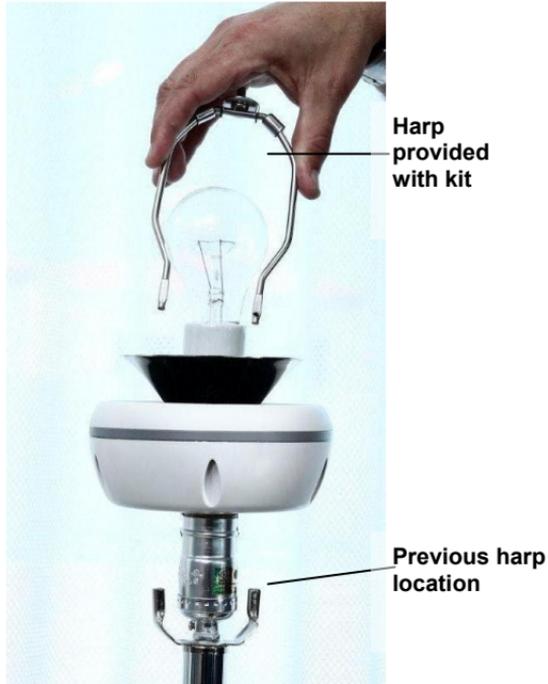
Figure 3. Installing the Speaker and Harp

8. Plug in the light fixture.

   Applying power to the light fixture causes the Pair/Status LED on the speaker to slowly flash. See Figure 4.

9. From the rear panel of the transmitter, press the Pairing button.

   This action causes the transmitter to enter pairing mode. The Pairing/Mute/Audio Source LED starts flashing red. The transmitter remains in pairing mode for one minute.

   Note: *After one minute, the transmitter enters standby mode. To re-enter pairing mode, press the Pairing button again.*

10. While the transmitter is in Pairing mode, press the Pairing/Zone button briefly on the light speaker. See Figure 4.

Once the transmitter is successfully paired to the Sound of Light speaker, the Zone 1 Pair/Mute/Audio Source LED turns green.

Note: *The green LED continues flashing if there is no audio source connected or playing.*
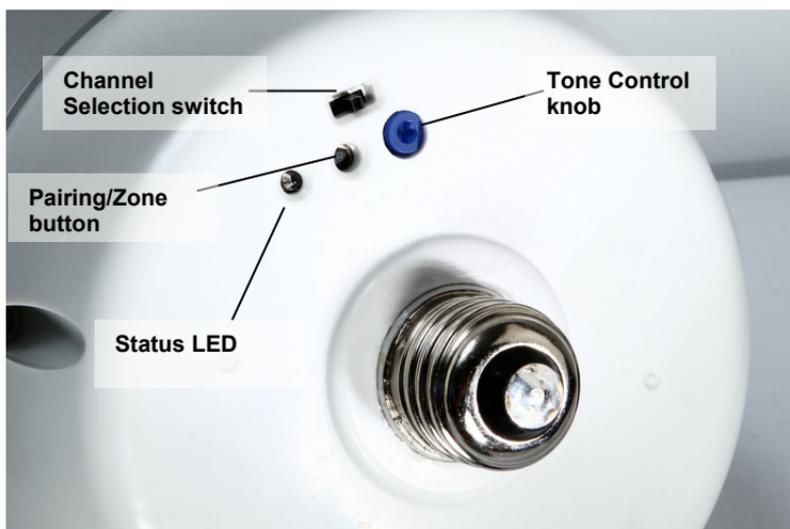
Figure 4. Under Panel of Speaker

11. Connect the desired audio source, such as a MP3 player, to the transmitter using the appropriate cable. A 3.5mm mini stereo cable and RCA cable are provided.

    Note: *When the 3.5mm cable is plugged into the transmitter it overrides the RCA input.*

12. Turn on the audio source.

13. Set the volume on audio source to the higher end of the range. You can adjust the volume later using the transmitter or the remote control.

    Music now plays from the Sound of Light speaker. If music does not play, refer to "Troubleshooting" later in this document.

14. Replace the shade on your light fixture.

    Note: *A seven-inch harp is pre-installed on the speaker unit. You can interchange this harp with a light fixture harp of a different size. To determine the size of the needed harp, measure from the base of the speaker to the top of the harp. See Dimension A in Figure 5.*

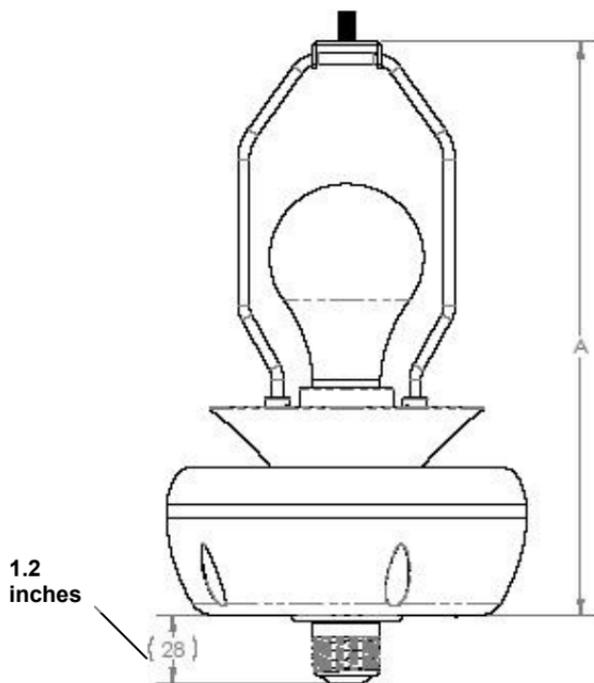| If the total height is (Dimension A)…	Then you need this size harp…
8 inches	6 inches
9 inches	7 inches
10 inches	8 inches
11 inches	9 inches
12 inches	10 inches

Figure 5. Harp Sizing

Adding Additional Speakers to the System

The Sound of Light system supports a maximum of four speakers. To include additional speakers, do the following:

1. Install the speaker using steps 5 through 10 in "Installation Instructions" earlier in this document.

2. From the rear panel of the transmitter, press the Pairing button.

   This action causes the transmitter to enter pairing mode. The transmitter remains in pairing mode for one minute.

3. While the transmitter is in Pairing mode, press the Pairing/Zone button on the speaker. See Figure 4.

   Once the transmitter is successfully paired, the Pairing/Mute/Audio Source LED turns green. The red LED on the Sound of Light speaker goes off. During normal operations the LED on the speaker remains off.

Changing the Speaker Zones

Background

The Sound of Light system supports two zones. This enables you to control light and audio volume to multiple speakers. For example, you can enjoy music in your family room, while leaving the dining room speaker on mute.

By default, every speaker is assigned to Zone 1. This is indicated with the appropriate Zone 1 LEDs. Once a speaker is switched to Zone 2, the Zone 2 LEDs become active showing the appropriate status. If all speakers are switched to Zone 2 and thereby leaving Zone 1 without a speaker, none of the Zone 1 LEDs are active.

There are numerous configurations supported depending on the locations of your light fixture. For example, you can move speaker 3 to zone 1 and speaker 4 remains in zone 2.

You can easily switch the zones of a speaker any time after pairing the speaker to transmitter.

Instructions

To adjust the zone of a speaker, press and hold the Pairing/Zone button on the speaker for three seconds.

This action causes the Pair/Status LED to flash once if the speaker is switched to Zone 1 and flash twice if the speaker is switched to Zone 2.

Using the Transmitter

Each wireless transmitter can support a maximum of four speakers. The transmitter must be located within 200 feet of the speakers. See Figure 6.

Transmitter Controls

The following table describes the controls on the transmitter.

Control	Function
Zone 1 Blue up arrow	Increases the speaker volume and cancel mute in zone 1.
Zone 1 Blue down arrow	Decreases the speaker volume and cancel mute in zone 1.
Zone 2 Orange up arrow	Increases the speaker volume and cancel mute in zone 2.
Zone 2 Orange down arrow	Decreases the speaker volume and cancel mute in zone 2.
Simultaneously pressing the blue up arrow and blue down arrow in zone 1	Mutes the volume in zone 1. The Pairing/ Mute/ Audio source indicator LED in zone 1 turns red indicating mute status.

Control	Function
Simultaneously pressing the orange up arrow and orange down arrow in zone 2	Mutes the volume in zone 2. The Pairing/ Mute/ Audio source indicator LED in zone 2 turns red indicating mute status.
Zone 1Blue Light Control button	Powers on and off the light in zone 1. The green LED indicates the light or lights are on.
Zone 2 Orange Light Control button	Powers on and off the light in zone 2. The green LED indicates the light or lights are on.

Transmitter LEDs

The following table provides the functionality of the transmitter LEDs.

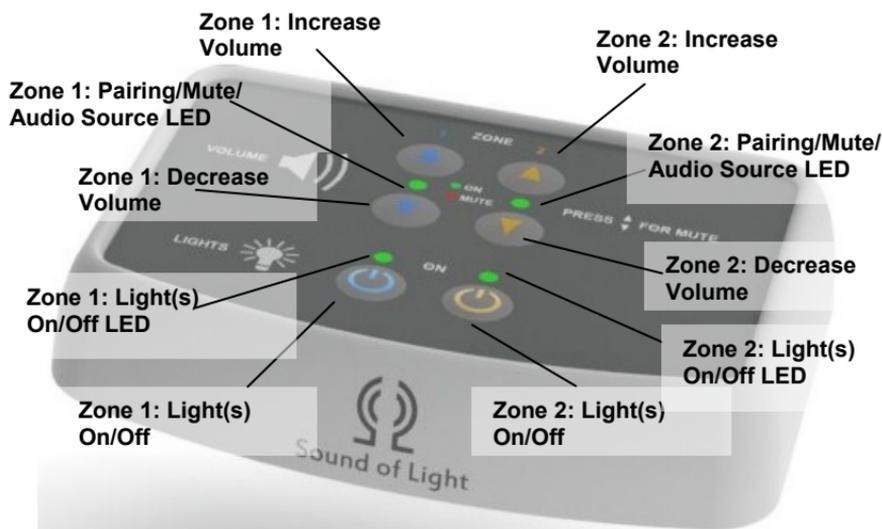| LED Function	Description
Pairing/ Mute/ Audio Source LED flashes green	No audio signal present.
Pairing/ Mute/ Audio Source LED is red	The speaker is muted.
Light On/Off LED is green	The light is on.

Figure 6. Wireless Transmitter

Using the Remote Control

Each Sound of Light starter kit includes a remote control. See Figure 7. This enables you to control light and audio volume to each zone. Refer to the following table for detailed information on the remote control.

Control	Function
Zone 1 Blue up arrow	Increases the speaker volume and cancels mute in zone 1.
Zone 1 Blue down arrow	Decreases the speaker volume and cancels mute in zone 1.
Zone 2 Orange up arrow	Increases the speaker volume and cancels mute in zone 2.
Zone 2 Orange down arrow	Decreases the speaker volume and cancels mute in zone 2.
Simultaneously pressing the blue up arrow and blue down arrow in Zone 1	Mutes the volume in zone 1.

Control	Function
Simultaneously pressing the orange up arrow and orange down arrow in Zone 2	Mutes the volume in zone 2.
Blue Light Control button	Powers on and off the light or lights in zone 1.
Orange Light Control button	Powers on and off the light or lights in zone 2.

Zone 1: Increase Volume

Zone 2: Increase Volume

Zone 1: Decrease Volume

Zone 2: Decrease Volume

Zone 1: Light(s) On/Off
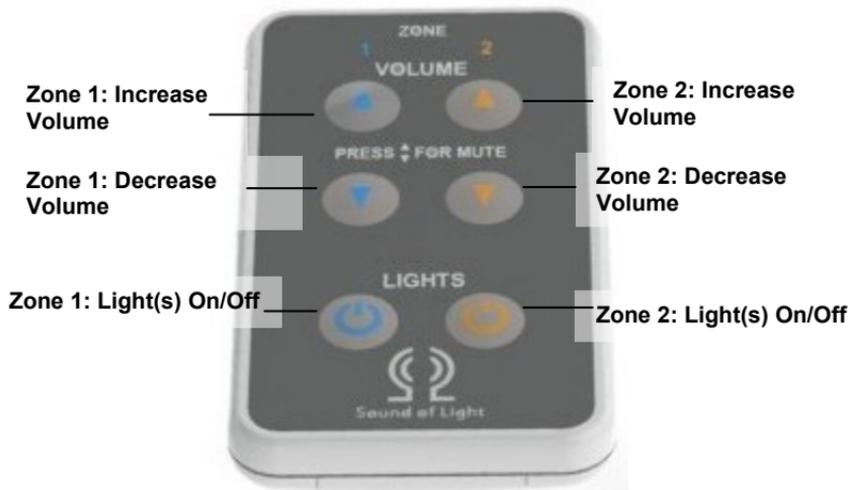
Zone 2: Light(s) On/Off

Figure 7. Remote Control

Making Speaker Adjustments

Adjusting Tone on the Speaker

To adjust the tone on the speaker, refer to Figure 4 and do the following:

1. Access the under panel of the wireless speaker.
2. Turn the blue Tone Control knob as necessary to achieve the desired sound quality.

Adjusting Your Speaker for Mono or Stereo Sound

Based on how your speaker or speakers are installed in your environment, you might need to make adjustments to the speaker source. Use the following table as a reference.

If you have...	Adjust the sound source to…
One speaker	Mono
Multiple speakers in the same room	Right on one speaker and left on the other speaker
Multiple speakers in different rooms	Mono on each speaker

To adjust for mono or stereo sound, refer to Figure 4 and do the following:

1. Locate the under panel of the speaker.

2. Slide the Channel Selection switch as appropriate for your environment using the table above as a guide.

Troubleshooting

To troubleshoot the system, refer to the following information.

Issue

When I turn on power to the transmitter all the LEDs flash once and then go off. No LEDs remain on.

Resolution

This is a normal condition during the following circumstances:

• No speaker is paired to the transmitter.
• A new system is not yet paired.
• The speakers are powered off.

Issue

The Transmitter Zone LED is slowly flashing green.

Resolution

No audio signal is present. The transmitter goes into standby mode and the green LED slowly flashes until the audio signal is back on. Standby mode occurs about one minute after the signal is turned off.

Issue

The speaker is not pairing with the transmitter.

Resolution

Perform the following steps:

1. Ensure the power to the light fixture is on.

2. Turn the light fixture power off then on again. During this process, watch the LED on the bottom of the speaker. The LED blinks once if paired to a transmitter in Zone 1, the LED blinks twice if paired to Zone 2, or the LED blinks slowly advising that the speaker is ready to be paired.

3. To pair the speaker, do the following:

   a. From the rear panel of the transmitter, press the Pairing button.

      This action causes the transmitter to enter pairing mode. The transmitter remains in pairing mode for one minute.

   b. While the transmitter is in Pairing mode, press the Pairing/Zone button on the speaker. See Figure 4.

      Once the transmitter is successfully paired, the Pairing/Mute/Audio Source LED turns green. The red LED on the Sound of Light speaker goes off. During normal operations the LED on the speaker remains off.

      Note: *Only the Zone 1 LED functions until you add speakers to Zone 2.*

Issue

The LED on the speaker is off.

Resolution

This LED is off during normal operations.

Product Specifications

The following information provides the specifications for the components of the Sound of Light system.

Speaker

The Sound of Light speaker includes the following functionality:

- 25 Watt Class D audio amplifier for clear sound reproduction and ultra low distortion.

- Three inch full range speaker using rear earth neodymium magnets for high output.

- Around sound audio reflector directs the sound in a 360 degree circle through the lamp shade so you can hear sound clearly in any position.

- Channel Selection switch enables you to select Right speaker, Left speaker, or Mono (for a single speaker).

- Pairing/ Status LED includes fault conditions for troubleshooting assistance. See "Troubleshooting" earlier in document for detailed information.

- Includes Tone Control knob to adjust tone to compensate for different lampshade densities.

Light

The Sound of Light speaker accepts most medium base bulbs including incandescent, fluorescent, and LED with a 60 Watt maximum.

Wireless Transmitter

The wireless transmitter supports the following functionality:

- Up to 200 feet system range of operations between transmitter and speaker.

- Texas Instruments PurePath digital 2.4 GHz wireless transmission technology.

- 2.1 channel option allows for the addition of a matched subwoofer accessory in zone 1 or zone 2. This configuration is ideal for televisions or computers. The transmitter supports a maximum of four speakers.

Power Supply

The Sound of Light speaker uses an internal Texas Instruments switch mode power supply (SMPS) for high efficiency and is Energy Star EuP compliant.

Regulatory Compliances

Environmental Compliance

This product was designed, manufactured and made available with consideration to worldwide laws, rules and regulations applicable to the product and the electronics industry including the European Union Directives 2002/95/EC & 2002/96/EC (RoHS and WEEE).

Regulatory Compliances and Standards

The Sound of Light product complies with the regulatory standards listed in Table 1.

Table 1. Regulatory Compliance and Standards

Logo	Country	Regulatory Organization	Compliant To
CE	EU member nations	CE	Emissions per CISPR 22, EN55022 and Immunity per CISPR 24, EN55024
FC	United States	Federal Communications Commission (FCC)	Title 47: Code of Federal Regulations, Part 15, Subpart B (47CFR15B)
ETL EU Intertek	North America Canada	ETL (Intertek Testing Services)	Conforms to UL STD. 1993 Certified to CAN/CSA STD.E968 Conforms to ANSI/UL STD.60065 Certified to CAN/CSA STD.C22.2 No.60065

Logo	Country	Regulatory Organization	Compliant To
Intertek	European Union (EU)	ETL (Intertek Testing Services)	The product complies with applicable European Union (EU) standards and directives.
Not applicable	Canada	Industry Canada Digital Apparatus - Interference-Causing Equipment Standard	ICES-003 Digital Apparatus
	IECEE member nations	International Electrotechnical Commission on Electrical Equipment (IECEE) for Mutual Recognition of Test Certificates for Electrical Equipment "CB Scheme"	CB Scheme per IEC 60950-1 with details and exceptions for each member country

Warranty and Product Support

The Sound of Light product includes a one year parts and service warranty from the date of purchase. During the warranty period, Sound of Light will repair or replace the product based on their servicing analysis.

United States and Canada

To obtain warranty service, contact the Sound of Light at 714 680-3610 for instructions.

Proof of purchase in the form of a bill of sale or invoice from an authorized dealer must be presented or included to obtain warranty service.

The warranty is invalid under the following conditions:

• The factory applied serial number has been removed or altered from the product.

• The product was not purchased from a Sound of Light authorized dealer.

The warranty does not cover damage due to misuse, cosmetic damage, negligence or modification of any part of the product. The warranty does not cover damage due to improper installation, operation, or maintenance. Any unauthorized repairs will void this warranty.

Outside the United States or Canada

The warranty for the Sound of Light product outside the United States or Canada is the responsibility of the distributor. To obtain warranty service for the product, contact the dealer where the product was purchased or the distributor that supplied the product.

Packaging and Shipping Instructions

Use the following guidelines when returning the Sound of Light product:

- Ensure the product is stable and has sufficient packing material to protect the product.

- Use a traceable carrier for transport or a signed for service (i.e., Airborne, Fed Ex, UPS, U.S. Priority Mail, etc.) with the post office (European/Canadian customers only) as they provide you with a tracking number and proof of delivery. The return shipping cost is paid by the customer. Products damaged through neglect due to improper packaging or in shipment will have the warranty voided and will be processed and returned to you non-repaired.

Additional Support

To obtain additional support for the Sound of Light product, visit our website at www.soundoflights.com.