

Luxsound™

SUBWOOFER

by
LIGHT[™]
Speaker

State-of-the-Art Wireless SubWoofer

Installs in 5 minutes or less!



OWNER'S MANUAL and installation instructions

NOTE: This SubWoofer can only be used with the Luxsound® wireless LightSpeaker® transmitter. It cannot be used or operated without the LightSpeaker® transmitter.

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**THE LIGHTSPEAKER® SYSTEM COMPLIES WITH
AUSTRALIAN AND NEW ZEALAND STANDARDS FOR:**

AS/NZS4417.1: General rules for use of this mark

Provides:

- general requirements for the use of the RCM on electrical products to indicate compliance with regulations.
- specifications and proportions for the RCM.

AS/NZS4417.2: Specific requirements for electrical safety regulatory applications

Sets out:

- requirements that apply to the use of the RCM to indicate that a product complies with electrical safety regulations in Australia and New Zealand.

Includes:

- appendices giving lists of electrical regulators, standards, regulatory definitions and approvals procedures.

AS/NZS4417.3: Specific requirements for electromagnetic compatibility regulatory applications

Sets out:

- requirements that apply to the use of the RCM on electrical and electronic products to comply with EMC regulations in Australia and New Zealand.

AS/NS4417.4: Specific requirements for radio apparatus regulatory requirements

Sets out:

- requirements that apply to the use of the RCM on radio apparatus to indicate compliance with radio communications regulations in Australia and New Zealand.

CAUTION:

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



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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions – All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions – The safety and operating instructions should be retained for future reference.
3. Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions – All operating and use instructions should be followed.
5. Do not use this apparatus near water – The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified 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 has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. WARNING - to reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on the apparatus.
16. WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
17. This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

The Luxsound logo features the brand name in a bold, sans-serif font, with a small registered trademark symbol (TM) positioned at the top right of the 'd'.

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Congratulations

Thank you for your purchase of the Luxsound® SubWoofers! Everything about this SubWoofers has been designed to work perfectly with your Luxsound® LightSpeaker® system; from the small, inconspicuous shape to state-of-the-art wireless technology, this subwoofer will virtually disappear in your room while delivering rich, deep bass. Place it in a corner or behind a couch, or favorite chair — plug in to the closest electrical outlet. There are no wires to run and no special tuning required. Just plug and play! Use the second zone capability so that others in different rooms can listen to a second music source at the same time. Or switch between the sources to listen to the music you like best in one room or all rooms. To learn more about the capabilities of your Luxsound® LightSpeaker system visit us at: www.luxsound.net

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SubWoofer Overview



This wireless SubWoofer is intended to install in just a few minutes. The system can use up to 4 wireless SubWoofers (when used with a Luxsound® LightSpeaker transmitter) to provide bass to your entire living area.

Additionally, the system can be expanded by adding our patented LightSpeakers®. These LightSpeakers install in minutes and fit into Luxsound 5" Open Can (available separately) as well as table lamps, hanging lamps or any standard Edison socket. They can provide "green" lighting and outstanding sound throughout your home. The LightSpeakers are available from your retailer or at **www.luxsound.net**

The entire system provides even greater flexibility to you as the owner since you can take it with you if you move. It leaves no trace that the system was ever installed or used.

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What's in this Box



Wireless SubWoofer

Owner's Manual
Power Cord

NOTE: This SubWoofer can only be used with the Luxsound® wireless LightSpeaker transmitter. It cannot be used or operated without the LightSpeaker transmitter.

Remote and transmitter also sold separately.

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Installation Considerations

Your Luxsound® Wireless SubWoofers can be placed in any area or zone where you would like additional bass to your existing LightSpeaker distributed audio system. The only wiring required is to plug it into a standard electrical outlet. This SubWoofers will perform perfectly adding rich, deep bass from wherever it is placed in your room, however, it will provide the most bass if it is placed in or close to a room corner. Ideal positioning would be to place it in a room corner and not further than 1 metre or not less than 2 metres from one of your LightSpeakers or AudioRocks. Distances between 1 metre and 2 metres may require the PHASE switch to be changed from 0° to 180°. Please see Page 11 of the manual for instructions on how to do this. Your Luxsound® wireless SubWoofers will operate up to 15 metres (in any direction) away from your LightSpeaker transmitter.

Please take a few minutes to read this manual. Following these simple setup instructions, will ensure you get the most from your LightSpeaker SubWoofers.

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Installation Instructions

Step 1: Please read all safety instructions at the start of this manual.

Step 2: Decide where you would like to add additional bass to your LightSpeakers and note the zone in which those LightSpeakers are located.

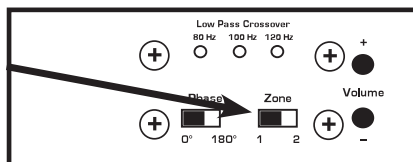
Step 3: Attach the power cord to the back of your SubWoofer and plug it into the nearest electrical outlet. Be certain the power switch on the rear of your SubWoofer is set to the “OFF” position.

Step 4: Pairing your SubWoofer to the LightSpeaker System.

Pairing is the process of “teaching” your transmitter to recognize your SubWoofer as part of the LightSpeaker system. It’s essential and only takes a couple of minutes.

A) Determine which zone your SubWoofer will be placed into (See “Setting Up Zones” in your LightSpeaker owner’s manual).

B) Set the zone switch on the back of your SubWoofer to either Zone 1 or Zone 2, depending on which zone it is to be located in.



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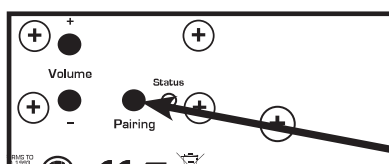
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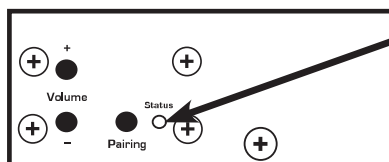
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C) On your LightSpeaker transmitter, find and press the “PAIRING Button” located on the back of the transmitter. The status lights on the front of the transmitter will begin to flash.

Note: When these lights are flashing, your transmitter is in pairing mode; and you have approximately 30 seconds to complete the next two steps. If you are unable to complete these steps, simply push the pairing button on the transmitter again.



D) Set the Power switch, located on the back panel of your subwoofer, to “ON”. While the lights are still flashing on the transmitter, push the “pairing button” on the back panel of your Klipsch Wireless SubWoofer. When the “STATUS” LED turns from Red to Green the pairing is complete.



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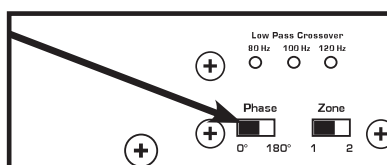
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Step 5: Setting the Phase Switch.

This will ensure that your Luxsound® SubWoofer sounds it's very best in your favorite listening position. It is easiest to do with two people: One at the listening position and the other at the SubWoofer.

A) Your Luxsound® Wireless SubWoofer is set up and ready to play. Play a favorite piece of music, with a lot of bass, to ensure it's functioning properly.

B) With one person at the listening position or some convenient position not too close to the subwoofer (2 metres to 3 metres back is fine) and the other person operating the phase, switch on the back of the SubWoofer.



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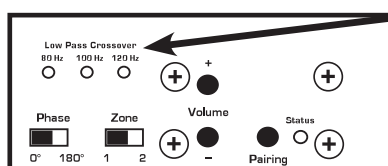
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C) While listening to the deepest bass notes in the music, flip the phase switch back and forth while the listener determines which setting produces the most bass. Leave the switch in the position with the most bass.

D) Keep in mind there is no wrong position for this switch, and if you can't reliably hear a difference in either position then it will not matter which position the switch is left at.

Step 6: Setting the Crossover Frequency.

There are three possible crossover frequencies to choose from: 80Hz, 100Hz and 120Hz. The one you choose will depend on where your SubWoofer is located and your personal taste. Remember, if you find one setting you like better than another, then leave it at the setting you like best. The closer your Luxsound[®] Wireless SubWoofer is to the corner, the LOWER the crossover will be set. There is a lot of variability in rooms so choose the crossover frequency that sounds right to you. If you cannot hear a difference then the frequency you choose will not make any difference.



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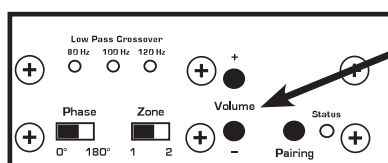
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A) As in the case with the phase switch this step is easier to perform with two people. Sit or stand in your preferred listening position while another person pushes the button immediately below the LEDs that mark the three different crossover frequencies. Each time the button is pushed the crossover will cycle to the next frequency first 80Hz (LED will light up), then 100Hz, and finally 120Hz. The next push of the button will light the 80Hz frequency again.

B) Choose the setting that sounds the best and leave the crossover set to this frequency. This can be changed at any time in the future and will not affect the operation of either your SubWoofer or your LightSpeaker system.

Step 7: Setting the volume control.

Your Luxsound® Wireless SubWoofer has a built in volume control so it can be matched to different numbers of LightSpeakers. The more LightSpeakers in the listening area, the higher the volume should be set.



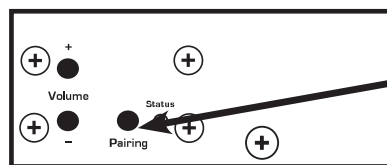
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A) While listening to your LightSpeakers, cycle the volume control up and down, stopping at the point where it sounds best. You may want to test this with several types of music to find the setting that sounds best to you.

B) When the volume reaches the maximum available, the pairing LED will begin to flash.



Your Luxsound® wireless SubWoofer is now ready to use!

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SubWoofer Specifications:

Driver

- 6.5" (165 mm) diameter, microcellulose fiber cone body with natural rubber surround

Voice Coil Diameter

- 1.0" (25.4 mm)

Enclosure

- Type - Ported; Front-firing driver with Rear-firing port
- Material - Medium Density Fiberboard
- Finish - Matte black, with black cloth grille

Amplifier

- Type - Digital
- Power - 65 W average sine power
- Features
 - 0-180 degree phase switch
 - Three position variable low pass filter:
Settings at 80 Hz, 100 Hz, 120 Hz
 - Digital volume control gain profile precisely matches subwoofer SPL to LightSpeaker satellite SPL at all volume settings

Frequency Response [-3 dB]

- 43 Hz - 120 Hz

Max SPL

- 102 dB - Output will match up to four LightSpeakers

Transmitter

- Frequency 2.4 Ghz proprietary
- Range - up to 15 metres from the transmitter
- AC Input - 230 Vac

RF Remote Range - Up to 30 metres

Dimensions

- Enclosure - 9.0" H x 9.0" W x 12.0" D + 0.625" for feet
228.6 mm H x 228.6 mm W x 304.8 mm D + 15.875 mm
- Transmitter - 8.0" L x 7.0" W x 2.5" H
203.2 mm L x 177.8 mm W x 63.5 mm H
- Remote - 3.2" L x 1.6" W x 0.8" H
81.28 mm L x 40.64 mm W x 20.32 mm H

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Warranty - Home and Commercial Audio

The Warranty below is valid only for sales to consumers in Australia, New Zealand, Polynesian Islands including Fiji, Samoa, Tonga, Cook Islands, and Vanuatu Islands.

Luxsound Ltd ("Luxsound") warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of one (1) year from the date of purchase. During the Warranty period, Luxsound will repair or replace (at Luxsound's discretion) this product or any defective parts (excluding electronics and amplifiers). For products that have electronics or amplifiers, the Warranty on those parts is for a period of one (1) year from the date of purchase.

To obtain Warranty service, please contact the Luxsound authorized dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Luxsound product, it can be returned, freight paid, to Luxsound for repair. Please contact Luxsound at ls.support@luxsound.net for instructions. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice from an authorized dealer, which is evidence that this product is within the Warranty period, must be presented or included to obtain Warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Luxsound authorized dealer. You may call +64 9 476 8330 to confirm that you have an unaltered serial number and/or you purchased from a Luxsound authorized dealer.

This Warranty is only valid for the original purchaser and will automatically terminate prior to expiration if this product is sold or otherwise transferred to another party.

This Warranty does not cover cosmetic damage or damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Luxsound or a Luxsound dealer which is authorized to do Luxsound warranty work. Any unauthorized repairs will void this Warranty. This Warranty does not cover product sold AS IS or WITH ALL FAULTS.

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REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. LUXSOUND SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Questions? Call us!

Have a question about your Lightspeaker® products? Talk to the people who know them best!

+64 9 476 8330

Email us!

If you prefer, your questions and comments can also be submitted by email; you can count on rapid response and clear, concise answers.

ls.support@luxsound.net

**WRITE THE PART NUMBER AND SERIAL NUMBER FROM YOUR
PRODUCT BOX HERE AND RETAIN FOR PRODUCT REGISTRATION**

Part Number: _____

Serial Number: _____

**Register your product online
at www.luxsound.net/register**

The Luxsound logo features the brand name in a bold, sans-serif font, with a small registered trademark symbol (TM) positioned above the 'd'.

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THIS DEVICE COMPLIES WITH FCC RULES PART 15.

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 that which may cause undesired operation.

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.

CAUTION:

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

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FCC RF Exposure Warning

This equipment complies with FCC RF radiation exposure limits set forth in an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION:

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

ATTENTION:

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à faire fonctionner l'équipement. This device has been designed to operate with the antennas listed below, and having a maximum gain of [5.5] dB. Antennas not included in this list or having a gain greater than [5.5] dB are strictly prohibited for use with this device. The required antenna impedance is [50] ohms.

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

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by
**LIGHT
Speaker**

Luxsound Ltd
P.O. Box 305-165
Triton Plaza, North Shore 0757
Auckland, New Zealand

For more detailed installation instructions go to
www.luxsound.net

LightSpeaker Technical Support

Phone: +649 476 8330

Email: ls.support@luxsound.net

If you want to expand your light and sound system to additional rooms, replace existing lights with LED lights or enjoy the same music outdoors as well as indoors, visit www.luxsound.net



Date: 7/30/10