

ebode

SUBWOOFER

by
LIGHT[®]
Speaker

State-of-the-Art Wireless SubWoofer

Installs in 5 minutes or less!



This manual is available in English, German, Dutch, Swedish, French, Spanish, Portuguese and Italian at www.ebodeelectronics.eu

OWNER'S MANUAL and installation instructions

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

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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 product.



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 product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

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



WARNING No naked flame sources - such as candles - should be placed on the product.

WARNING - Do not open! Risk of electrical shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Place the equipment near a main power supply outlet and make sure that you can easily access the power breaker switch.

WARNING: This product is intended to be operated ONLY from the AC Voltages listed on the back panel or included power supply of the product. Operation from voltages other than those indicated may cause irreversible damage to the product and void the product's warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged with a detachable power cord. Use only the type provided with your product or by your local distributor and/or retailer. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer.

AMPLIFIER REQUIREMENTS

Due to the high output levels these speakers are capable of reproducing, exercise caution with the volume control. Excessive volume over long periods of time can permanently damage your hearing. Overdriving your Subwoofer could also damage your speakers.

CARE AND CLEANING

Your speakers have a durable finish that should only require dry dusting. Avoid use of abrasive or solvent-based cleaners and harsh detergents. The brush attachment of your vacuum or a damp cloth should remove any dust from your speaker grilles.

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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 manufacturer'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.
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. Unplug the apparatus during lightning storms or when unused for long periods of time.
13. 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.
14. 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 objects filled with liquids, such as vases, shall not be placed on the apparatus.
15. WARNING: The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
16. 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.



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Congratulations

Thank you for your purchase of the ebode SubWoofer! Everything about this SubWoofer has been designed to work perfectly with your ebode 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 favourite 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 ebode LightSpeaker system visit us at: www.ebodeelectronics.eu.

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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 an ebode 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 table lamps, hanging lamps or any standard E27 Edison socket. The LED light provides “green” lighting and the speaker provides outstanding sound throughout your home. The LightSpeakers are available from your retailer or at www.ebodeelectronics.eu.

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.



What's in this Box



Wireless Subwoofer

Owner's Manual
Power Supply

NOTE: This Subwoofer can only be used with the ebode 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 ebode Wireless SubWoofer 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 SubWoofer 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. Your ebode wireless SubWoofer will operate up to 15 meter [in any direction] away from your LightSpeaker transmitter.

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



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.

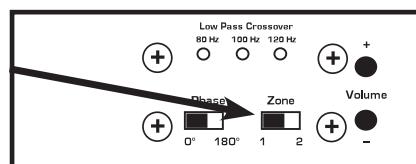
Step 3: Attach the power cord to the back of your SubWoofer and plug it into the nearest electrical outlet. Be certain the power switch on the rear of your SubWoofer is set to the "OFF" position.

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].

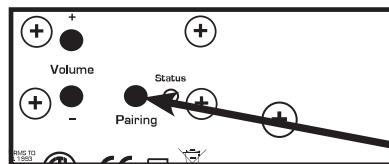
B) Set the zone switch on the back of your SubWoofer to either Zone 1 or Zone 2 depending on which zone it is to be located in.



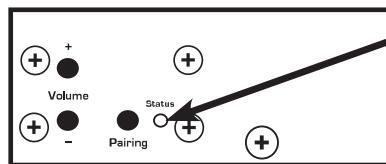


C] On your LightSpeaker transmitter, find and press the "PAIRING Button" located on the back of the transmitter. The status lights on the front of the transmitter will begin to flash.

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 ebode Wireless SubWoofer. When the "STATUS" LED turns from Red to Green the pairing is complete.



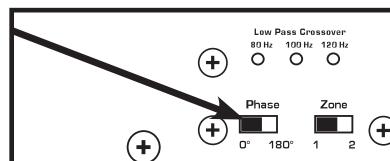


Step 5: Setting the Phase Switch.

This will ensure that your ebode SubWoofer sounds its very best in your favourite listening position. It is easiest to do with two people: One at the listening position and the other at the SubWoofer.

A) Your ebodeWireless SubWoofer is set up and ready to play. Play a favourite piece of music, ideally one 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 to 3 meter back is fine) and the other person operating the phase, switch on the back of the SubWoofer.



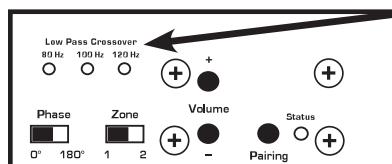


C) While listening to the deepest bass notes in the music, flip the phase switch back and forth while the listener determines which setting produces the most bass. Leave the switch in the position with the most bass.

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 ebode 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.



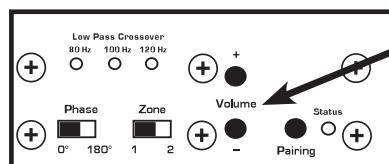


A] As in the case with the phase switch this step is easier to perform with two people. Sit or stand in your preferred listening position while another person pushes the button immediately below the LEDs that mark the three different crossover frequencies. Each time the button is pushed the crossover 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.

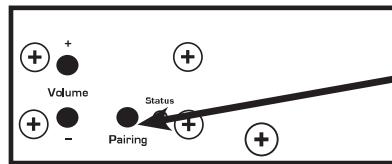
Your ebode Wireless SubWoofer has a built in volume control so it can be matched to different numbers of LightSpeakers. The more LightSpeakers in the listening area, the higher the volume should be set.





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 ebode VWireless SubWoofer is now ready to use!



SubWoofer Specifications:

Driver

- 6.5" diameter, microcellulose fiber cone body with natural rubber surround

Voice Coil Diameter

- 25.4 mm (1.0")

Enclosure

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

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 meter from the transmitter
- AC Input - 120 Vac - 230 Vac

RF Remote Range - Up to 30 meter

Dimensions

- Enclosure - 22,9 cm (9.0") H x 22,9 cm (9.0") W x 30,5 cm (12.0") D + 1.6 cm (0.625") for feet

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Warranty - Home and Commercial Audio

Limited Liability

ebode electronics warrants its loudspeaker products to the original purchaser to be free of manufacturing defects in material and workmanship for a period of two years from date of purchase. This warranty is subject to the following additional conditions and limitations.

The warranty is void and inapplicable if ebode electronics deems that the product has been used or handled other than in accordance with the instructions provided by the manufacturer, including but not limited to damage caused by accident, mishandling, improper installation, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product by anyone other than ebode electronics.

To obtain warranty service, please visit your dealer. A factory return authorization number will be sent to you. Do not return any unit without first receiving written authorization and shipping instructions from your dealer.

There are no other warranties, including without limitation, either express or implied warranties of merchantability or fitness for a particular purpose, with respect to the product.

Repair or replacement as provided under this warranty is the exclusive remedy of the consumer/purchaser. ebode electronics shall not be responsible for any incidental or consequential damages except to the extent provided (or prohibited) by applicable law.

Some COUNTRIES do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from COUNTRY TO COUNTRY.

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Questions? Contact your local dealer!

Have a question about your ebode electronics speakers? Talk to the people who know them best! We're waiting to hear from you!

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

Part Number: _____

Serial Number: _____



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 for 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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DECLARATION OF CONFORMITY TO R&TTE DIRECTIVE 1999/5/EC
for the European Community, Switzerland, Norway, Iceland and Liechtenstein

Product category: general consumer (category 3).

English: This equipment is in compliance with the essential requirements and other relevant provisions of the European R&TTE Directive 1999/5/EC

Deutsch [German]: Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.

Nederlands [Dutch]: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.

Svenska [Swedish]: Denna utrustning står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Français [French]: Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC

Español [Spanish]: Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.

Português [Portuguese]: Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.

Italiano [Italian]: Questo apparato è conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.

Norsk [Norwegian]: Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.

Suomi [Finnish]: Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.

Dansk [Danish]: Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.

Polski [Polish]: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 1999/5/EC

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DECLARATION OF CONFORMITY

Hereby, ebode electronics BV, declares that this SubWoofer is in compliance with the essential requirements and other relevant provisions of the following Directives:

Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility

Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2005/32/EC of the European Parliament and of the Council of 6 July 2005 establishing a framework for the setting of eco design requirements for energy-using

Technical data and copies of the original Declaration of Conformity are available and can be obtained from ebode electronics: PB 25, NL-4264ZG, the Netherlands.

CE

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

This document contains important information for users with regards to the proper disposal and recycling of ebode products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams.

It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health.

For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

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The Netherlands

For more detailed installation instructions go to
www.ebodeelectronics.eu

SubWoofer Technical Support:
Contact your local dealer!

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



Revision A
Date: 26/7/10