

# Audiodesign

3D Orchestra 5.1 IS  
3D Orchestra 3.1 IS  
3D Orchestra Speaker  
3D Orchestra Subwoofer



Bedienungsanleitung, Operating instructions, Mode d'emploi  
Istruzioni per l'uso, Instrucciones de manejo, Gebruiksaanwijzing  
Betjeningsvejledning, Käyttöohje, Bruksanvisning

**LOEWE.**

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## Thank you

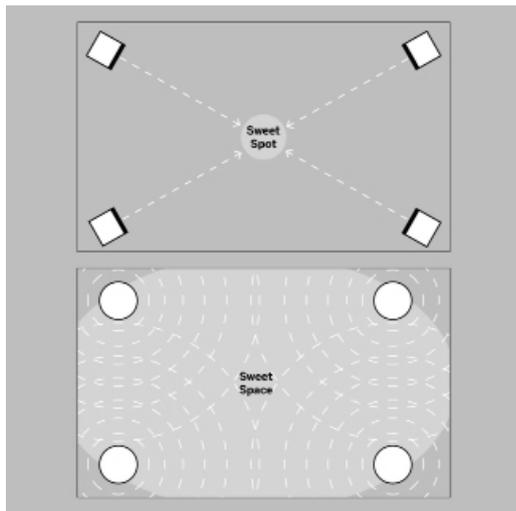
for choosing a Loewe product!

Loewe stands for the highest standards of technology, design and user friendliness. This applies equally to TV, Audio and Equipment. In addition to the elegant and timeless design and a varied combination of colour and mounting choices, your Loewe 3D Orchestra offers also unique advantages from a technological point of view.

What makes the Loewe 3D Orchestra IS truly exceptional is the smart combination of innovative technologies such as active wireless speakers, point source sound reproduction and automatic triangular calibration. In turn, the result translates into complete flexibility regarding the number of speakers and listeners and their positioning within a room.

The Loewe 3D Orchestra IS is an integrated 3D Home Cinema Speaker System. This means that it is suitable for Loewe TV sets with SL 2xx chassis in connection with their Loewe Assist remote controls together with the Loewe Assist Media user interface and that it uses the TV stereo speaker as centre speaker.

This innovative sound system provides perfect surround sound in a space extended from a "sweet spot" to a "sweet space" for genuine surround sound in the entire room. Additionally, speaker configurations are variably upgradeable according to the room size. The audio signal transmission for speakers and subwoofer is wireless.



The Loewe 3D Orchestra Speaker and the Loewe 3D Orchestra Subwoofer are active wireless speakers with high-quality class D power stages and open loop amplification with high output power and a wide frequency range. The oppositely arranged drivers of the Loewe 3D Orchestra Speakers ensure absolute vibration-free operation and low weight. The acoustical configuration with 360° point source audio characteristics allows for a maximum flexible positioning.

The 3D Orchestra controller module provides with intelligent audio processing and lossless 5.8 GHz radio transmission for best sound quality. The Module 3D Orchestra Controller that can be unremarkably integrated under the cable duct cover of the Loewe TV. The measuring microphone finds out the optimum sound via triangular measurement of the acoustic properties of a room and controls the automatic calibration of all speakers in the entire system. This avoids a tedious manual sound adjustment and ensures automatically an optimal listening experience.

## Set of equipment supplied

### Loewe 3D Orchestra 5.1 IS - 52219xxx

- Module 3D Orchestra Controller
- 4x Loewe 3D Orchestra Speakers
- Loewe 3D Orchestra Subwoofer
- Measuring microphone
- Velcro tapes
- LAN cable
- 5x Mains cables
- This instruction manual

### Loewe 3D Orchestra 3.1 IS - 52218xxx

- Module 3D Orchestra Controller
- 2x Loewe 3D Orchestra Speakers
- Loewe 3D Orchestra Subwoofer
- Measuring microphone
- Velcro tapes
- LAN cable
- 3x Mains cables
- This instruction manual

### Loewe 3D Orchestra Speaker - 52224xxx

- 2x Loewe 3D Orchestra Speakers
- 2x Mains cables
- Information sheet

### Loewe 3D Orchestra Subwoofer - 52240xxx

- Loewe 3D Orchestra Subwoofer
- Mains cable
- This instruction manual

## Accessories

Inlays with various colours - please contact your dealer for more information in this regard.

## About this instruction manual

The information in these instructions refers to the product **Loewe 3D Orchestra**.

Unless stated otherwise, the instructions refer to the operating controls on the **Assist** remote control (Art. no. 89900A13).

**i** For best results regarding safety and the longevity of the set, we recommend you read the chapter **For your safety** (page 17) before switching it on for the first time.

Paragraphs which begin with the symbol **i** indicate important instructions, tips or conditions for the following settings.

Terms which you will find in the menus or printed on the remote control or unit are written in **bold** type.

The necessary operating controls are shown in the descriptions to the left of the text containing the instructions for action.

**For your safety, and to avoid unnecessary damage to your unit, please read and follow the safety instructions below:**

### Intended use and ambient conditions

This TV set is intended exclusively for rendering audio signals. It must not be used in rooms with a high level of **humidity** (e.g. bathroom, sauna) or a high **dust concentration**. The manufacturer's warranty is only valid for use in the specified permissible environment.

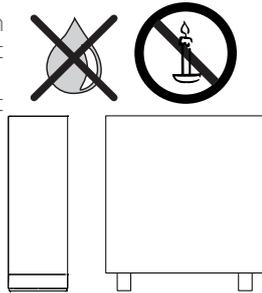
If the unit is used outdoors, make sure that it is protected from **moisture** (rain, dripping water and splashing water or dew). High humidity and dust concentrations lead to leakage currents in the device. This can result in a shock hazard by touching it or even fire.

If you have moved the unit out of the **cold** into a warm environment, leave it switched off for about an hour because of a possible formation of **condensation**.

Do not place **objects** containing **liquids** on top of the unit. Protect the device against dripping and splashing water.

**Candles** or **naked flames** must be kept away from the unit at all times to prevent it from catching fire.

Never place the TV set in a location where it is exposed to **vibrations**. This can lead to material overload.



### Power supply

**Incorrect voltages** can damage the unit. This device may only be connected to a power supply with the voltage and frequency indicated on the type plate using the supplied power cord. The **mains plug** of the unit must be easily accessible so that the device can be disconnected from the mains at any time. When unplugging the unit from the mains, pull at the connector body and not at the **cable**. The cables in the mains plug could otherwise be damaged and could cause a **short-circuit** when plugged in again.

Lay the **mains cable** so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, stood on or exposed to **chemicals**; the latter also applies to the unit as a whole. A power cable with damaged insulation can cause **electric shocks** and poses a **fire risk**.

### Air circulation and high temperatures

Like any electronic device, your unit requires **air for cooling**. Obstruction of the air circulation can cause fires.

Ensure that there is at least 3 cm free space on the sides and above the set for air circulation, if the set is placed in a **cabinet** or on a **shelf** or is hung up.

Prevent **metal items**, needles, paper clips, liquids, wax, or similar items, from getting into the interior of the device. Such objects can cause **short circuits** in the unit, which could possibly cause a fire.

If something should get into the **interior of the set** then immediately unplug the mains plug of the device and contact the **field service** for more information.

### Set-up

Place the unit on an **even, firm, horizontal surface**. Particularly ensure that the set does not protrude to the front when placed in or on pieces of furniture.

Set up the device where it is not exposed to direct **sunlight** and where it is not exposed to additional heating by **radiators**.

### Supervision

Do not allow **children** to use the device without supervision or to play in the immediate vicinity of the device. The device could tip over, be pushed off or pulled down from the stand surface and injure someone.

Do not allow the switched-on device to run **unattended**.

### Volume

Loud music can lead to ear damage. Avoid extreme volume especially over long periods and when using headphones.

### Thunder storms

Pull out the **power cable** during thunderstorms. A voltage surge caused by **lightning** conducted through the mains could damage the unit. Also remove the mains plug in case of long periods of **absence**.

### Cleaning and care

**i** Switch off all devices with the main switch prior to cleaning.

Clean the speakers with a soft, moist, clean and colour-neutral cloth only, **without** any **aggressive** or **scouring cleaning agents**. The 3D Orchestra Speaker grills are textile covered. Due to electrostatic charging, dust may accumulate on the speaker cover. You can remove this by carefully using a vacuum cleaner with a soft brush attachment if needs be.

In case of **dirt** or **stains**:

Moisten a soft, colour-neutral cloth with detergent or normal stain remover and gently rub away the stain. You can also treat the mark/stain directly with normal dry stain remover spray (vacuum up powder). Do not moisten the fabric cover directly with detergent or stain remover (risk of encrustation). Do not use any solvents to clean the fabric.

**i** Follow the manufacturer's instructions when using stain removers.

### Repairs and accessories



Warning: to rule out the danger of an electric shock, do not remove the cover. There are no parts inside the unit that can be repaired by the user. Have your device repaired or serviced by **authorised television technicians** only.

Only use **original accessories** such as Loewe stands, if possible.

## TV software update

**i** Please check whether a software update is available for your TV. This is described in the detailed instruction manual of the TV set in the chapter **Software update**. Carry out the update as described there. Your Orchestra 3D sound system is automatically supplied with software updates via the TV set.

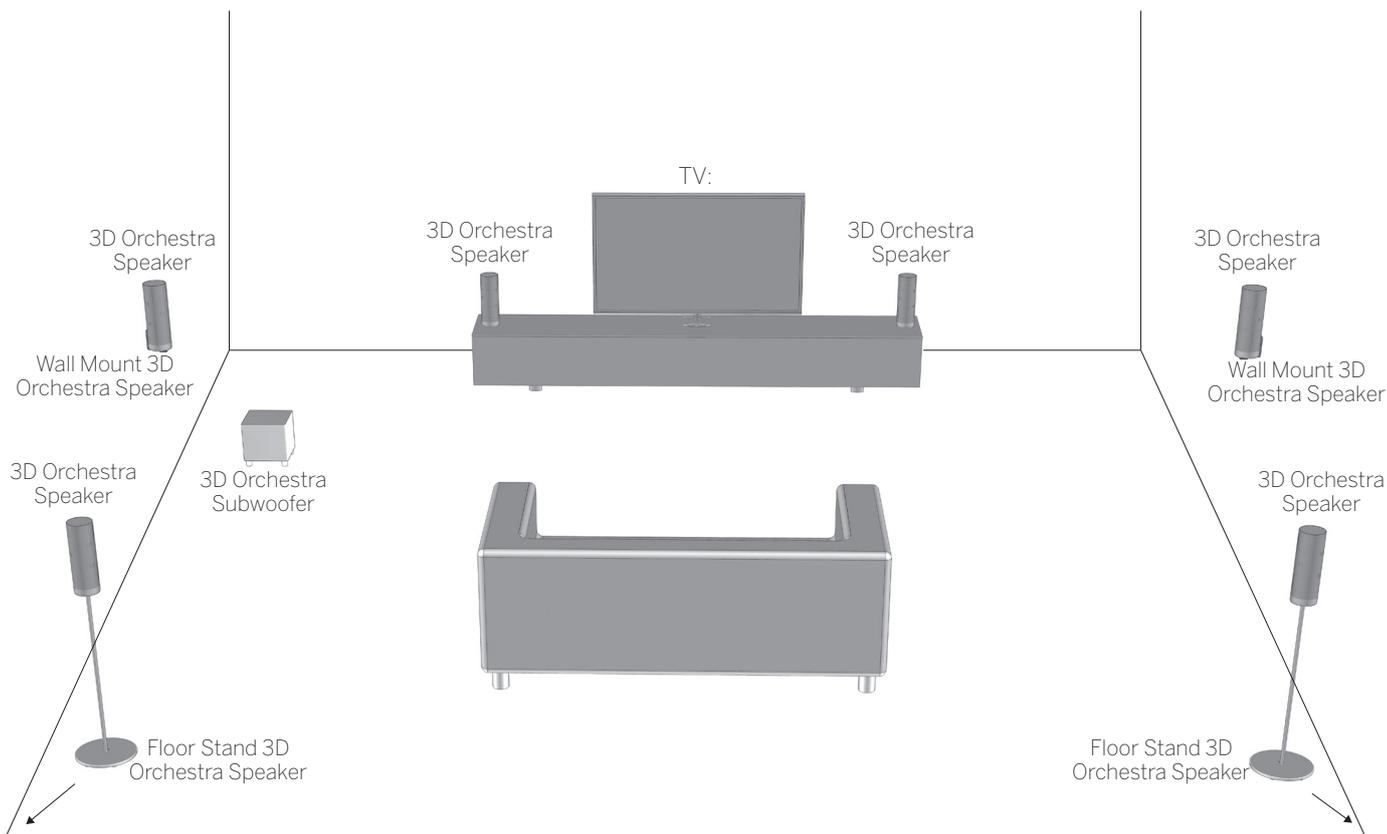


## Set-up in the room

The 3D Orchestra speakers are suitable for various set-up solutions. Please refer to the respective mounting instructions. Place the speakers on an even, firm, horizontal surface. When being set up, the speakers should not protrude to the front, in particular, when placed in or on pieces of furniture. You can distribute the 3D Orchestra speakers or the subwoofer in the room as shown in the sketch. Only a mains outlet must be available near each speaker. Thanks to wireless technology, the speakers can be placed up to a distance of 10 m from the TV set (line of sight required). If possible, place the speakers in the corners of the room (at a height of up to 3 m) or at the walls around your listening position.

For wall mounting of the 3D Orchestra speakers, use only the original accessories **Wall Mount 3D Orchestra Speaker**, article no. 71775001, provided by Loewe.

For mounting the 3D Orchestra speaker on a floor stand, the **Floor Stand 3D Orchestra Speaker** is available: article no. 71765B00.

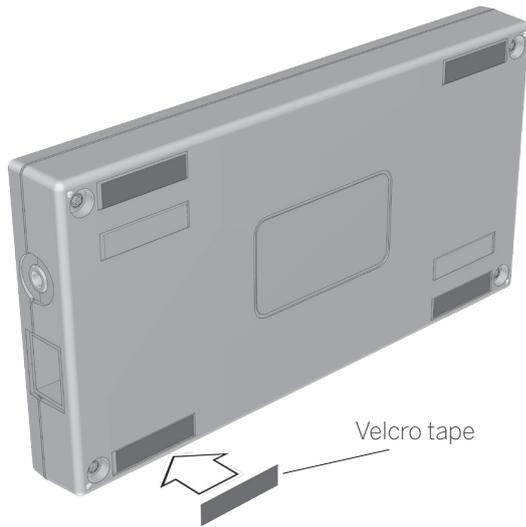


The loudspeaker arrangement shown here is just an example for a 7.1 system - other arrangements and configurations are possible.

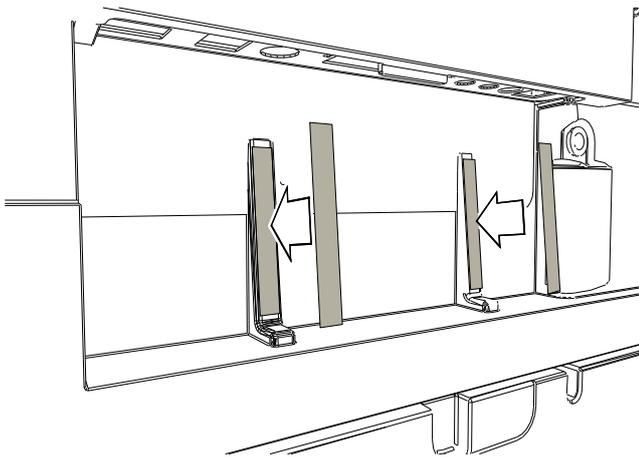
## Installing the Module 3D Orchestra Controller

Mount the Module 3D Orchestra Controller, for instance, on the rear side of the TV set. In many Loewe TV sets there is a possibility to mount the Module 3D Orchestra Controller directly in the rear cable duct of the TV set. This is shown as an example in the following figures.

For Loewe Individual TV sets, for instance, stick 3-4 of the self-adhesive Velcro tapes (short) to the marked positions on the rear side of the Module 3D Orchestra Controller.

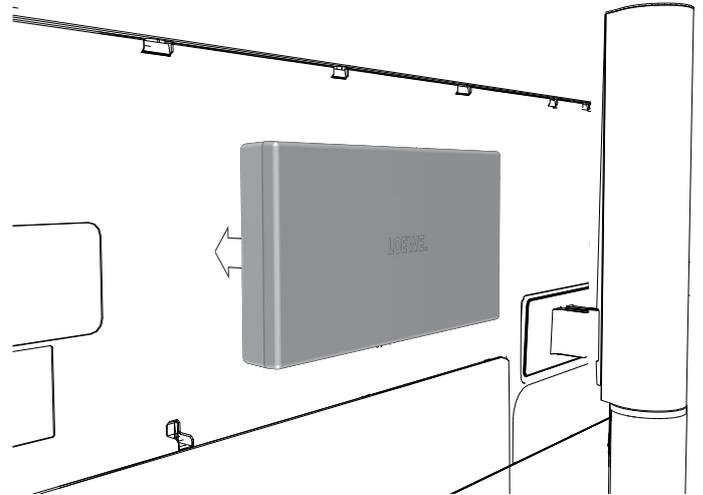


For Loewe Reference ID TV sets, for example, stick 2 Velcro tapes (long) to the indicated positions (ribs) in the left-side rear cable duct of the TV set.

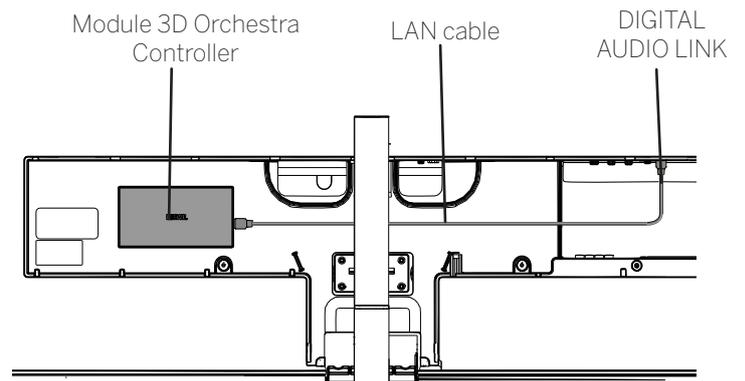


**!** Make sure that at least 3 to 4 short self-adhesive Velcro tapes are used for mounting and they should not be applied to an adhesive label (e.g. rating plate), but on a well-adhering surface.

Press the Module 3D Orchestra Controller firmly onto the attached Velcro tapes to fix it.



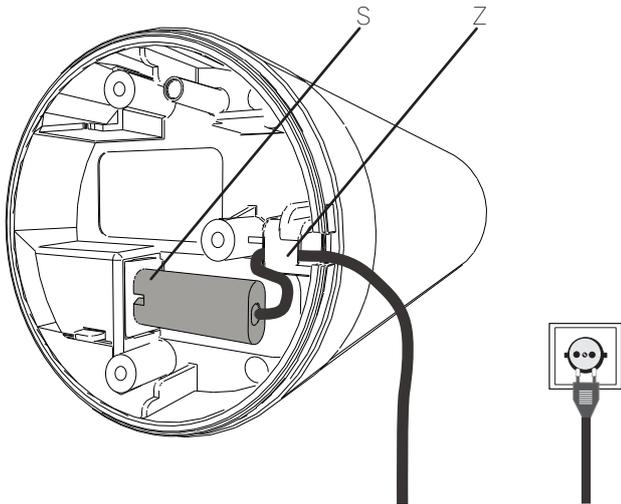
Using the supplied LAN cable, connect the **DIGITAL AUDIO LINK** socket of the Module 3D Orchestra Controller to the **DIGITAL AUDIO LINK** socket of your TV set.



## Connecting the speakers to the power supply

Insert the small plug (S) of the supplied power cord into the power receptacle on the bottom side of the speaker. Feed the power cable through the strain relief (Z) intended to prevent inadvertent disconnection of the power cord.

Insert the large plug of the power cord into a 220-240V 50/60 Hz power outlet.

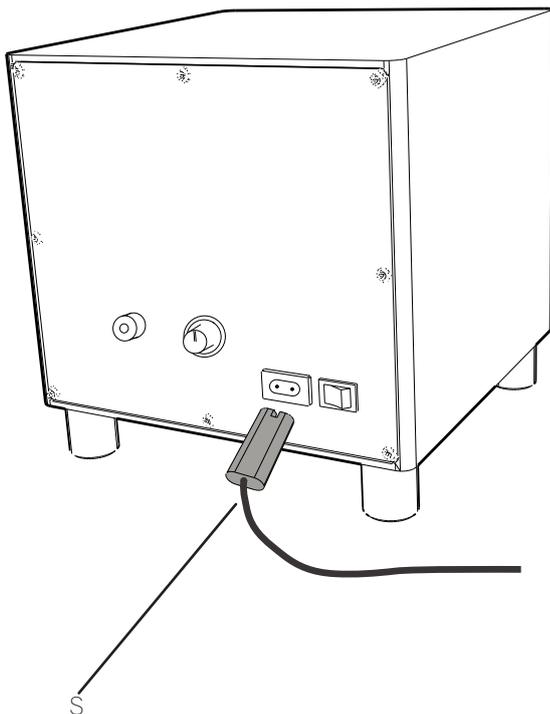


Proceed in the same way with additional speakers.

Insert the small plug (S) of the supplied power cord into the mains socket at the side of the subwoofer.

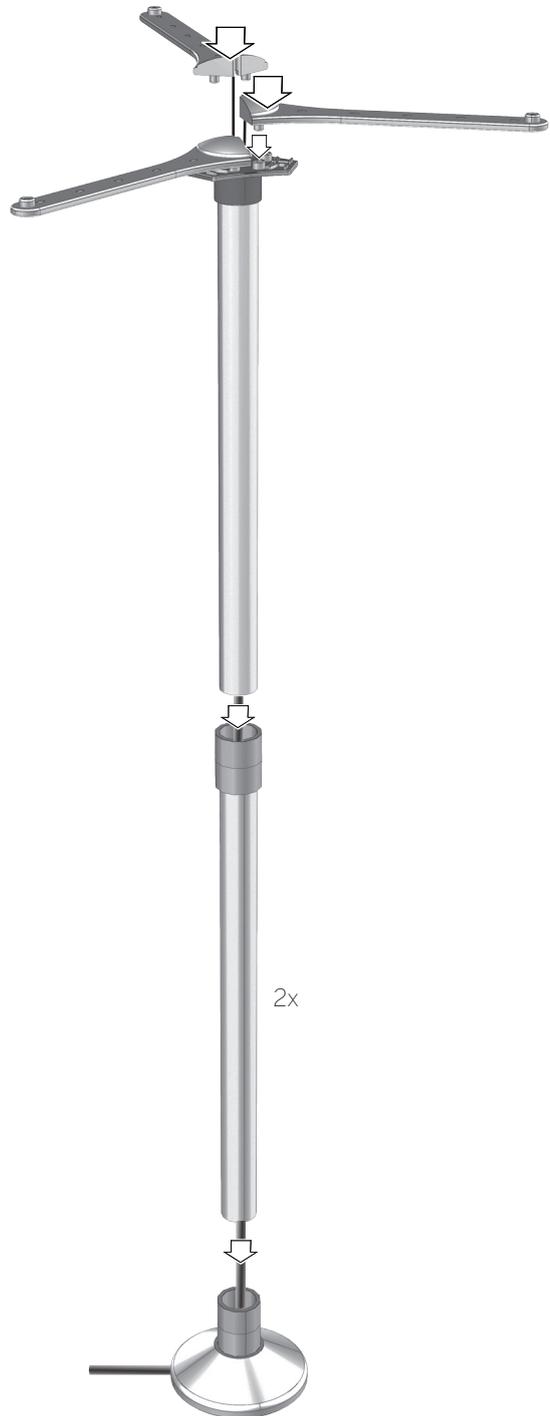
Insert the large plug of the power cord into a 220-240V 50/60 Hz power outlet.

Switch on the subwoofer by switching the **POWER** toggle switch to position **I**.



## Installing the measuring microphone

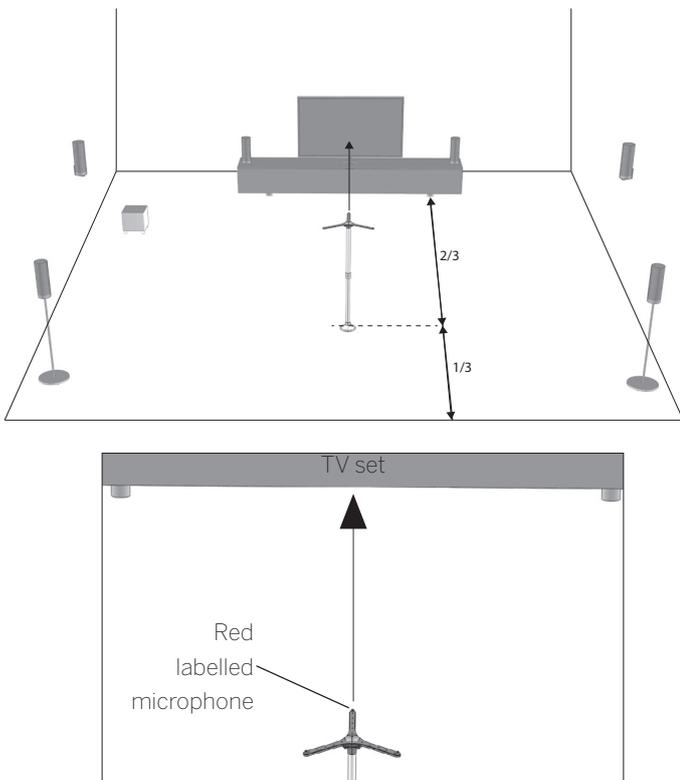
Before using it, the supplied measuring microphone must be assembled. First, feed the microphone cable through the pipes / couplings and the foot. Mount these parts as shown in the sketch below.



**i** Make sure you only hold the measuring microphone at the base and not on the tube during transport.

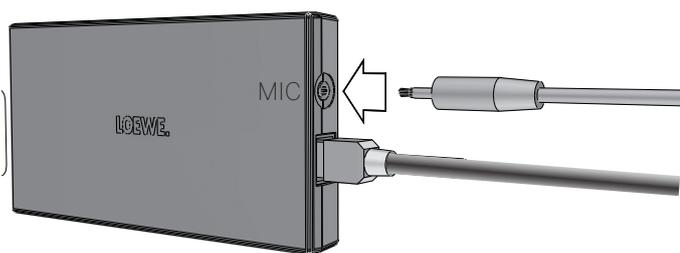
## Setting up the measuring microphone

Place the measuring microphone between the TV set and the opposite wall at a distance ratio of 2/3 to 1/3 as shown in the sketch below. The microphone marked in red must be oriented towards the TV set. The microphone should be installed at about the level of your listening position.



## Connecting the measuring microphone

Plug the 3.5 mm jack at the cable end of the measuring microphone into the **MIC** socket on the Module 3D Orchestra Controller.



## Automatic room acoustic measurement

For the sound field of the 3D Orchestra sound system to be aligned optimally to your listening position, adjust the unit to your actual room. This is done using the measuring microphone supplied and an automatic procedure controlled by the TV set. The following steps are required:

- Measuring the acoustic conditions of the room.
- Optimising the sound distribution.
- Optimising the sound (volume, frequency response, subwoofer if required).

**i** Switch on the TV set and the 3D Orchestra subwoofer. Make sure that all 3D Orchestra speakers are connected to the power supply.

Start the automatic room acoustic measurement in the TV **System settings** menu.

HOME

**HOME:** Call Home view.

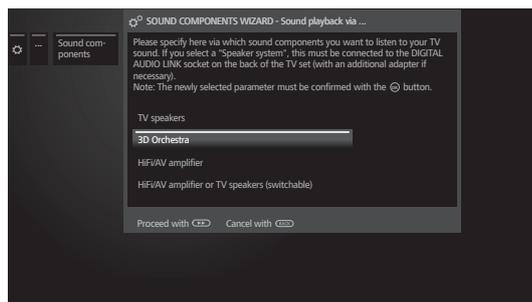


◀ ▶ ▲ ▼ Mark **System settings**.  
**OK** call System settings.

▼ ▲ Mark **Connections**.  
 ▶ go to next column.

▼ ▲ Mark **Sound components**.  
 ▶ go to next column.

The **Sound components wizard** menu appears.

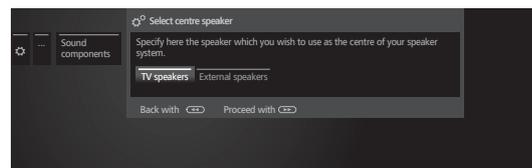


▼ ▲ Select **3D Orchestra**.  
**OK** confirm.



**Proceed.**

The **Select centre speaker** menu appears.



◀ ▶ Select the desired option for the **centre speaker**.

TV speakers The speaker integrated in the TV set or the optional stereo speaker is used as a centre channel.

External speakers An additional 3D Orchestra speaker positioned centrally near the TV is used as a centre channel.

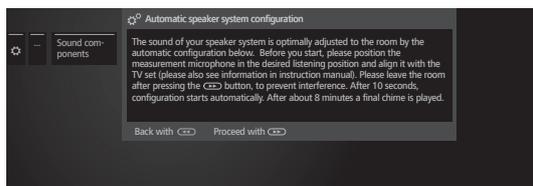


**Proceed.**

The **Automatic speaker system configuration** menu appears.



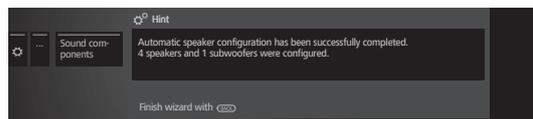
**Proceed.**



Now leave the room so that the automatic room acoustic measurement can work undisturbed. The measuring procedure starts approx. 10 sec after you have pressed the key

- i** If an error occurs during the auto set-up, a warning tone will sound and a message will appear on the TV screen. Then, check the conditions described above for the Sound System to work perfectly.
- i** The auto set-up takes approx. 8 minutes.
- i** Please measure the room in a listening situation that is typical for you (for example, with closed doors). After the measuring procedure, the positions of the TV set and the 3D Orchestra Speakers must not be changed any longer. Similarly, the room (with respect to its acoustics) should not be significantly altered. In the event that you subsequently change the number and / or the position of the speakers or that the acoustics in the room is changed (e.g., by structural measures, changed floor covering or wall decoration or open / closed sliding doors), repeat the automatic room acoustic measurement as described above.

After the completion of the auto set-up, a message is displayed about the result.



Press **BACK**.

Your 3D Orchestra sound system is now ready for operation. You can now remove the measuring microphone.

## Sound menu

Functions will be changed or added in the TV menu **Sound** (see TV set instruction manual) if **3D Orchestra** is used.



**HOME:** Call Home view.



◀ ▶ ▲ ▼ Mark **System settings**.  
**OK** call System settings.

▼ ▲ Mark **Sound**.  
 ▶ go to next column.

### Sound mode



▼ ▲ Mark **Sound mode**.  
 ▶ go to next column.



Under the menu item **Sound mode**, the original items will be replaced by the options **Mono**, **Stereo** and **Surround Mode**.

## Spatial effect



- ▼ ▲ Mark **more ...** ,
  - ▶ go to next column.
- ▼ ▲ Mark **Spatial effect**,
  - ▶ go to next column.



You can use the **Spatial effect** option to set the size of the optimum acoustic range („Sweet Space“).

- low Relatively small „Sweet Space“, e.g. only for one person. This gives you a very good spatial resolution of the individual audio channels
- medium Medium-sized „Sweet Space“ as normal setting
- clear Relatively large „Sweet Space“, but with less ability to identify the individual audio channels

## Platform position



- ▼ ▲ Mark **more ...** ,
  - ▶ go to next column.
- ▼ ▲ Mark **Platform position**,
  - ▶ go to next column.

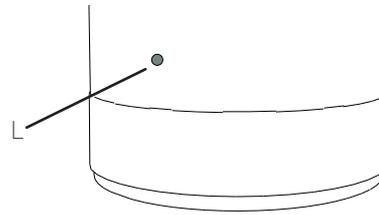


The option **Platform position** allows you to shift the musical stage (i.e. the position from which the music appears to be coming) next to or behind your desired listening position.

- front (0°) The musical stage is located in front of you; for your desired listening position the sound comes from the direction of the TV set (standard setting).
- left (90°) The musical stage is located 90° to the left of you.
- right (90°) The musical stage is located 90° to the right of you.
- rear (180°) The musical stage is located behind you.

## LED display on the 3D Orchestra Speaker

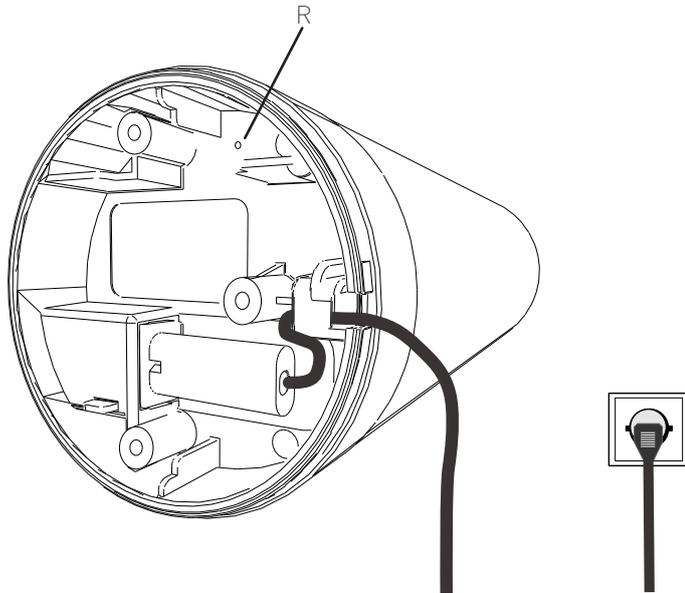
In the 3D Orchestra Speaker, a white LED (L) is installed that provides information on the operating status.



LED	Operating mode
Lights brightly	On - the 3D Orchestra Speaker is ready for operation
Lights dimly	Off - the 3D Orchestra Speaker is in its energy-saving stand-by mode
Flashes slowly	The 3D Orchestra Speaker starts
Flashes quickly	There is a malfunction (e.g. radio interference)

## Extending the 3D Orchestra system

If you wish to relink your 3D Orchestra speaker and subwoofer again (e.g. due to an extension or modification of the sound system), the existing coupling with the Module 3D Orchestra Controller should first be reset. To do so, press the reset button (R) with a pointed object. In the 3D Orchestra Speaker, the reset button is in the shaft pole at the bottom of the speaker. On the 3D Orchestra subwoofer the reset button is on the panel at the rear side of the subwoofer (see figure in right column).



The built-in white LED in the 3D Orchestra Speaker flashes slowly after the reset. This indicates that the speaker is ready for a new coupling. Rerun the automatic room acoustic measurement as described on page 21.

## Using the subwoofer for other audio systems

Via the RCA jack **Line In / Subw** the **3D Orchestra Subwoofer** can be used in other audio systems as well. Connect the **Line In / Subw** jack via a cinch cable to the Subwoofer/LFE connector of the audio source.

**i** The **3D Orchestra Subwoofer** is an active subwoofer. Therefore, it may only be connected to a preamplifier output of the audio source.

After 10 minutes without an audio signal at the **Line In / Subw** jack, the subwoofer will be switched off automatically.

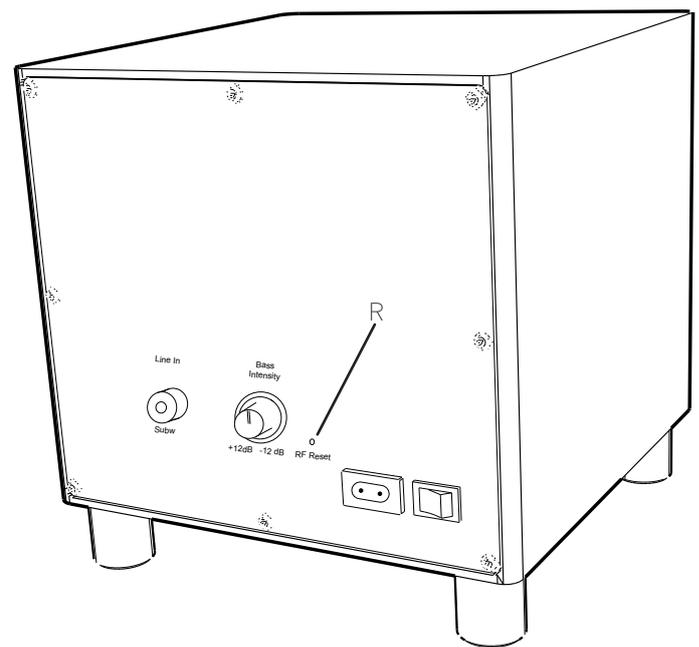
**i** The subwoofer can switch on automatically if interfering signals are present on the audio lines. In this case, actuate the mains switch of the subwoofer.

**i** The subwoofer can switch off automatically during longer, very quiet periods. In this case, increase the volume.

## Bass intensity

Using the **Bass Intensity** controller you can set the basic bass volume to suit you, when you operate the subwoofer via the RCA socket with an analogue audio signal.

**i** In the wireless operating mode, this controller has no function.



## Troubleshooting

Problem	Possible cause	Remedy
Not working at all.	Power cable of the speaker loose or disconnected.  LAN cable between TV set and Module 3D Orchestra Controller is not plugged in.	Plug the mains cable into a socket 220-240 V 50/60 Hz.  Using the supplied LAN cable, connect the <b>DIGITAL AUDIO LINK</b> socket of the Module 3D Orchestra Controller to the <b>DIGITAL AUDIO LINK</b> socket on the TV set.
No sound.	The 3D Orchestra sound system is not set up correctly.  The volume is set to minimum.  The sound is set to mute.  One or more speakers are not connected to your 3D Orchestra system, e.g. after a system upgrade.	Repeat the room acoustic measurement (page 21).  Increase the volume.  Press  or <b>V+</b> on the remote control to re-activate the audio output and then adjust the volume level.  Press the reset button on the 3D Orchestra speaker or on the 3D Orchestra subwoofer. Repeat the room acoustic measurement (page 21).
The wireless connection is faulty.	Other devices nearby use the same frequency range.	Rotate the devices in different directions in order to reduce interference to a minimum. Switch off other devices that may interfere.
The unit is not working properly.		Unplug the mains plug from the mains socket and then try plugging it in again after 30 seconds.
The surround sound pattern is too weak. The surround sound is unclear.	The audio source (e.g. Blu-ray player) is set to stereo.  The <b>Sound mode</b> is set to <b>Mono</b> or <b>Stereo</b> .  One or more 3D Orchestra speakers are not connected to the mains.  The audio content being played is not recorded in a surround sound format.	Change the settings on the audio source to a surround audio format.  Set the <b>Sound mode</b> to <b>Surround</b> (page 22).  Check the power supply of your 3D Orchestra speakers.  No remedy.

## Technical data

### Module 3D Orchestra Controller

Operating temperature	5 °C ... 40 °C
Humidity	30 % ... 85 % (no condensation)
Dimensions (approx.)	155 x 80 x 19 mm (W x H x D)
Weight	0.14 kg
DIGITAL AUDIO LINK	socket RJ45
MIC	3.5 mm jack
Wireless transmission	5.8 GHz

### 3D Orchestra Speaker

Operating temperature	5 °C ... 40 °C
Humidity	30 % ... 85 % (no condensation)
Mains voltage	220 - 240 Volt, 50/60 Hz
Power consumption	6 W
Power consumption on standby	< = 0.5 W
Dimensions (approx.)	106 x 312 mm (D x H)
Weight	1.1 kg
Principle	1-way closed
Equipped with	2 full-range speakers
Transmission range	200 Hz to 24 kHz
Power rating (RMS)	40 W
Sound pressure level at 1 W	85 dB (at 1 m distance)
Wireless transmission	5.8 GHz

### 3D Orchestra Subwoofer

Operating temperature	5 °C ... 40 °C
Humidity	30 % ... 85 % (no condensation)
Mains voltage	220 - 240 Volt, 50/60 Hz
Power consumption	22 W
Power consumption on standby	< = 1 W
Dimensions (approx.)	240 x 245 x 261 mm (W x H x D)
Weight	5.2 kg
Principle	1-way bass reflex, active
Equipped with	1x bass 160 mm
Transmission range	45 Hz – 300 kHz (- 6dB)
Power rating (RMS)	100 W
Bass intensity control	-12dB / +12dB
Wireless transmission	5.8 GHz

## Environmental protection

### Cardboard box and packaging

In line with national regulations regarding the disposal of packaging materials, we pay a fee to authorised recyclers who collect packaging from dealers. Nevertheless, we recommend that you keep the original cardboard box and the rest of the packaging materials so that the device can, if necessary, be transported under the safest possible conditions.

### The device



**Attention:** The EU Directive 2002/96/EC governs the proper return, handling and recycling of used electronic appliances. Old electronic devices must therefore be disposed of separately. Never dispose of this device in normal domestic waste! You can hand in your old unit free of charge at identified collection points or to your dealer if you buy a similar new unit. Other details about return (also for non-EU countries) are available from your local authorities.

## Declaration of conformity

This equipment is in compliance with the essential requirements and other relevant provisions of **Directive 1999/5/EC**. It may be operated in all countries in the **EU** and also in **Iceland, Norway** and **Switzerland**. In **France** and **Italy** it may **only** be used **indoors**. You can find the complete declaration of conformity on our homepage [www.loewe.de](http://www.loewe.de).



## Service

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# EC Conformity Declaration

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 Date: 22.04.2013  
 Page 1 of 1

**Document No. / Month - Year:** 52218/52219/ 02-2013  
**Manufacturer:** Loewe Opta GmbH  
**Trade mark:** LOEWE.  
**Address:** Industriestrasse 11, 96317 Kronach, Germany  
**Product:** 3.1 / 5.1 Wireless 3D Home Theater System  
**Product Designation:** Orchestra 3D

The designated product conforms to the provisions of the following European directives:

**Directive 2006/95/EC**

of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to Electrical Equipment designed for use within certain voltage limits

**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 t to electromagnetic compatibility and repealing Directive 89/336/EEC

**Directive 1999/5/EC**

of the European Parliament and of the Council on Radio Equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity

**Directive 2009/125/EC**

of the European Parliament and of the Council of 21 October 2009 establishing a framework for the settings of ecodesign requirements for energy-related products

**Directive 2011/65/EU**

of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Affixing of the CE marking: 13



The conformity of the designated product with the provisions of Directives is proved by full compliance with the following standards:

**Directive 2006/95/EC**

EN 60065 2002 + A1 2006, A11 2008, A2 2010, A12 2011

**Directive 2004/108/EC**

<input checked="" type="checkbox"/> EN 55013 2001	+ A1 2003, A2 2006	<input checked="" type="checkbox"/> EN 61000-3-2 2006	+ A1 2009, A2 2009
<input checked="" type="checkbox"/> EN 55020 2007	+ A11 2011	<input checked="" type="checkbox"/> EN 61000-3-3 2008	
<input type="checkbox"/>		<input type="checkbox"/>	

**Directive 1999/5/EC**

<input checked="" type="checkbox"/> EN 62311 2008	<input checked="" type="checkbox"/> EN 301489-17 V2.1.1
<input checked="" type="checkbox"/> EN 301489-1 V1.9.2	<input checked="" type="checkbox"/> EN 300328 V1.7.1
<input type="checkbox"/>	<input type="checkbox"/>

**Issuer:** Loewe Opta GmbH

**Place, Date:** Kronach, 22.04.2013

**Legally binding signature:**

  
 Name: ppa. Roland Bohl  
 Director R & D Product Development

  
 i. V. Reiner Nowitzki  
 Head of TV Device Development

Chairman of the Supervisory Board:  
 Dr. Rainer Hecker

Board of Management:  
 Matthias Harsch (Chairman)  
 Rolf Rickmeyer  
 Dr. Detlef Teichner

Location of the company: Kronach  
 Inferior Court Coburg: HRB 641