

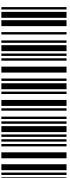


Operating Manual

Audio

- Individual Sound Projector

LOEWE.

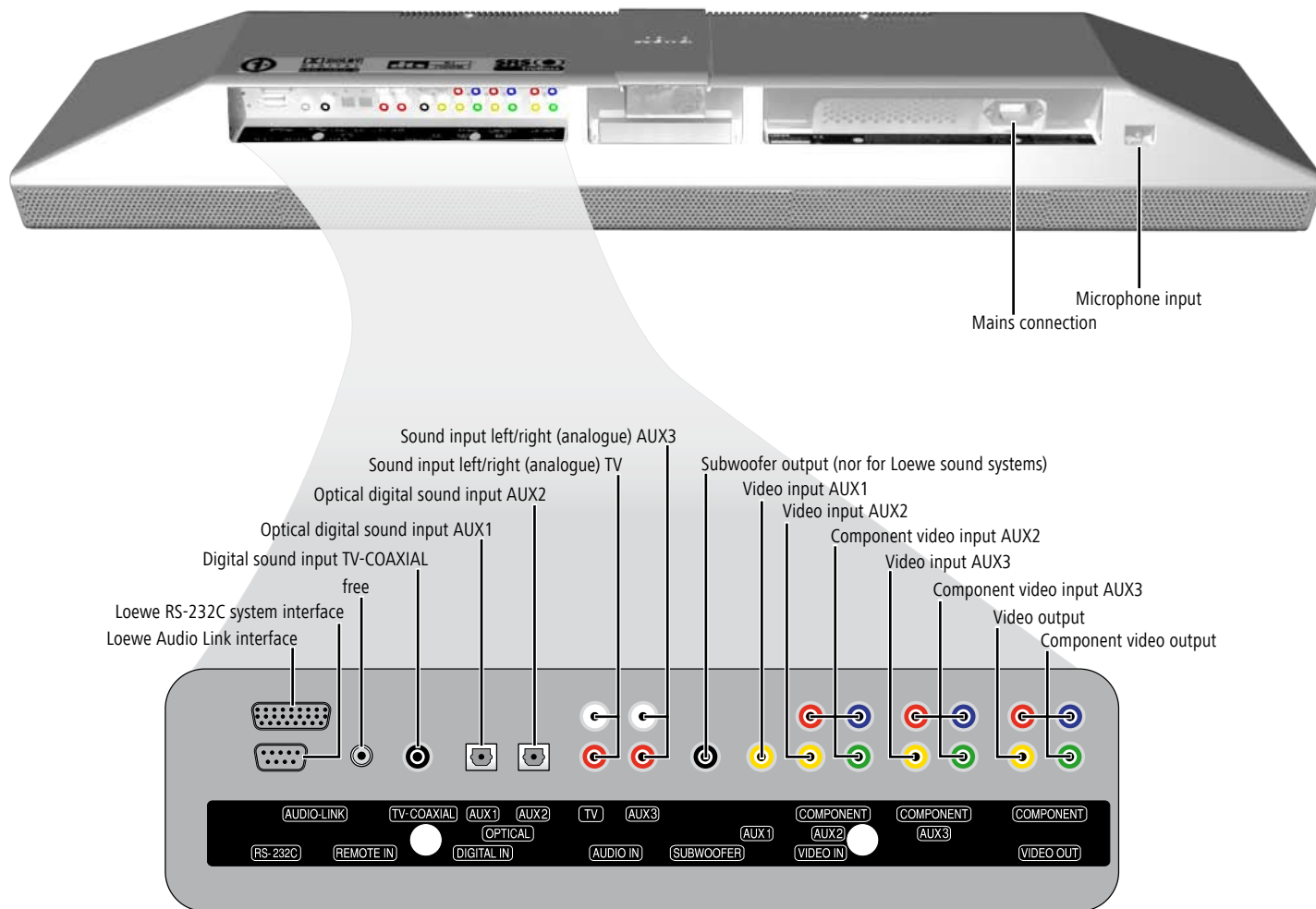


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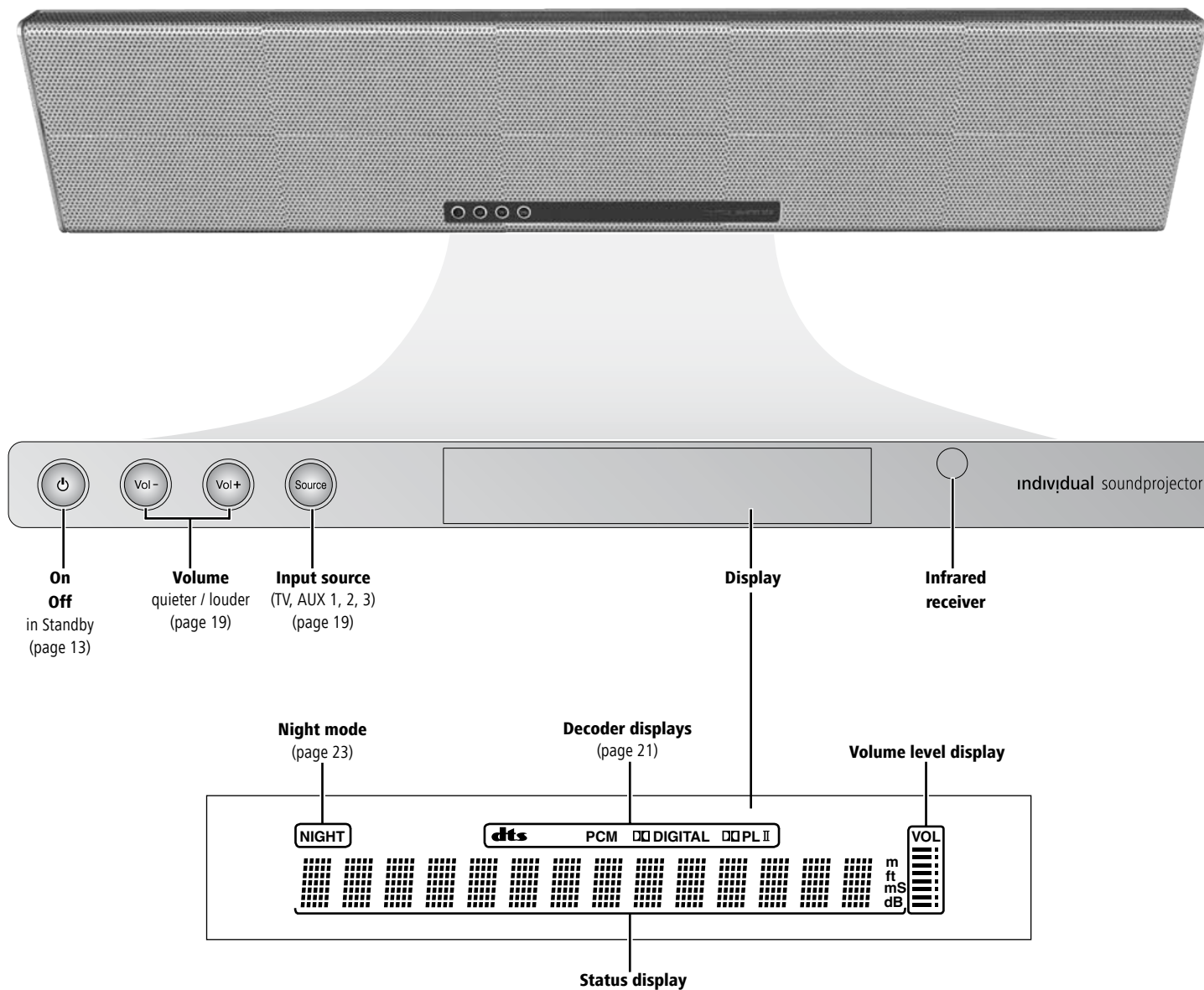
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Rear View



Front view & Display



Welcome

Thank you

for choosing a Loewe product. We are happy to welcome you as our customer. At Loewe we combine the highest standards of technology, design and user friendliness. This is equally true of TV, DVD, video, audio and accessories. Neither technology nor design is an end in itself, but both are intended to provide our customers with the best possible audio and visual experience. Our design is not influenced by short-term, fashionable trends. You have, after all, purchased a high-quality piece of equipment which you do not want to get tired of tomorrow or the day after.


The Loewe Individual Sound Projector is the simplest way to enjoy digital surround sound without laboriously having to arrange and connect up numerous loudspeakers distributed around the room. We use state-of-the-art digital technology to control several small loudspeakers in such a way that directed soundwaves and targeted reflection off the walls of your room create the real impression of acoustic spatial perception regardless where you are sitting - as if you were in the thick of it. And setting up and operating the Sound Projector is quite simple.



Scope of delivery

- Loewe Individual Sound Projector
- Remote control Assist with 2 batteries
- Mains cable
- Digital audio cinch cable
- Audio cinch cable
- Video cinch cable and SCART adapter
- Optical audio cable
- System cable RS-232C
- Microphone with stand
- Wall mount, cover
- Cable holder, adhesive holders (4x)
- this user guide and mounting instructions


You can control three units using the remote control, apart from this Sound Projector, a Loewe TV set and a Loewe recorder as well.


Trademark rights

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This product was made with the support of YAMAHA CORPORATION.

Accessories

Table Stand I Sound Projector Order No. 67208

Floor Stand 5 MU Order No. 67471 B10

Environmental Protection

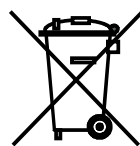
Power consumption

Your unit has been equipped with an economical standby power supply. In standby, power consumption falls to a low level (page 27). If you want to save even more electricity, disconnect the unit from the mains.

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 unit can, if necessary, be transported in the safest possible conditions.

The unit



Important: The EU Directive 2002/96 /EC governs the proper re-acceptance, handling and recycling of used electronic appliances. Old electronic appliances must therefore be disposed of separately. Never dispose of this unit in the 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 re-acceptance (also for non-EU countries) are available from your local authorities.

Remote control batteries



The batteries provided contain no harmful materials such as cadmium, lead or mercury.

Regulations concerning used batteries mean that batteries may no longer be thrown out with the household rubbish. You can dispose of used batteries free of charge at the collection points in commercial outlets. Your dealer will also have a collection point for used batteries.

For your safety

For your own safety, and to avoid unnecessary damage to your unit, please read and follow the safety advice below.

Use for the intended purpose and ambient conditions

This Sound Projector is intended exclusively for the reception, recording and playback of video and audio signals and is designed for the home and office and may not be operated in rooms with high **humidity** (e.g. bathroom or sauna) or a high **concentration of dust** (e.g. workshops).

The terms of the warranty only cover normal use of the Sound Projector.

IMPORTANT: THE MAINS CABLE OF THIS UNIT MUST BE CONNECTED TO A SOCKET WITH PROTECTIVE GROUND.

This unit is not disconnected from the mains even when it is switched off provided it is still plugged into the socket. This status is called **Standby**. In standby the unit only uses a small amount of electricity (page 27).

During a lengthy absence the **plug** should be **disconnected from the mains**. The mains plug must be **easy to reach** to ensure that the unit can be disconnected from the mains at any time.

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

Always switch off your system (Sound Projector, TV set and any other audio components which may be connected) before connecting or disconnecting other devices or loudspeakers.

PLEASE NOTE: TO AVOID RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER (OR THE REAR OF THE UNIT). THERE ARE NO PARTS INSIDE THE UNIT THAT CAN BE REPAIRED BY THE USER. REPAIRS SHOULD ONLY BE CARRIED OUT BY A LOEWE DEALER.

Avoid any **metal objects**, needles, paper clips, liquids, wax or similar getting into the unit through the **ventilation slits** at the rear. This can **short-circuit** the unit and possibly cause a fire.

If anything should penetrate the **inside of the unit**, immediately unplug from the mains and inform **customer service** to check it.

Always protect the unit from **moisture, cold, shock, mechanical stress** and **dirt**. Do not place anything containing a **liquid** or **burning candles** on top of the unit.

The batteries in the remote control may not be exposed to heat, e.g. direct sunlight, fire etc.

As far as possible, only use **original accessories** such as Loewe mounting systems.

Supervision

Do not allow **children** to use the Sound Projector/TV set unsupervised. Do not allow children to play in the immediate vicinity of the Sound Projector/TV set. They could knock, push or pull the equipment over and cause injury.


Cleaning

Only clean your Sound Projector with a slightly damp, soft, clean cloth (without any aggressive cleaning agents).

About this user guide

The information in this guide refers to the Loewe product Individual Sound Projector.

Unless stated otherwise, the instructions refer to the operating elements on the Assist remote control.

Paragraphs beginning with the  symbol indicate important hints, tips or conditions for perfect operation.

Terms which you will find in the menu or printed on the Sound Projector are printed in **bold type**.

In the functional descriptions, the necessary operating elements are arranged to the left of the text which contains the handling instructions.

Loewe RS-232C system interface

In this user guide you will initially find out how to set up and operate the combination of the Sound Projector with a Loewe TV set with chassis Digital+ HD100 (L2710) or Digital+ HD (L2700) with software from V4.x upwards. This combination offers advantages for the set-up and operation through the harmonised behaviour of the individual components with each other and through intelligent unit communication via the Loewe RS-232C system interface.

Afterwards, the set-up or operation is described in connection with other TV sets which do not have this system interface.

Shipping the Unit

The original shipping box and packaging materials should be used in this case. To protect the unit as much as possible, pack it in the same way as it was packed when you originally received it.

Initial set-up

Set-up in general

- The unit is suitable for various set-up solutions. Please pay attention to the respective mounting instructions.
 - Only place the unit with a table or stand on a level, firm, horizontal surface. When being set up, the unit should, in particular, not protrude into or over furniture.
 - Do not set up the unit near strong heat sources or in direct sunlight. Always protect the unit from moisture, cold, shock and mechanical stress and dirt.
 - When setting up the unit, ensure that air can circulate easily and that there is no heat accumulation. Do not cover the openings at the rear. Keep a distance of at least 5 cm above, behind and below this unit.
 - Keep this unit away from other electrical household equipment, motors or transformers to avoid crackling noises.
 - Set the unit up in such a way that the infrared signal from the remote control can reach the Sound Projector display without being impeded.
 - Do not place anything containing a liquid or burning candles on top of the unit.
 - Do not place any strong artificial light source in front of the unit. This could have a detrimental effect on the infrared reception.
 - Incorrect voltages can damage the unit. This unit may only be connected up to an electricity supply with the voltage and frequency stated on the rating plate. Select the mains cable suitable for use in your country and connect to a socket with a properly connected protective ground.
 - In thunderstorms, disconnect the TV antennae and mains plug. A voltage surge caused by lightning conducted through the antenna system or the mains could damage the unit.
 - During a lengthy absence the plug should be disconnected from the mains.
 - The mains plug must be easy to reach to ensure that the unit can be disconnected from the mains at any time.
 - Position the mains cable in such a way that it can not be damaged. The mains cable may not be bent or laid across sharp edges, walked on or exposed to any chemicals; the latter applies to the whole unit.
 - When you want to unplug from the mains, do not pull on the cable, but on the housing of the plug. The cables in the mains plug could otherwise be damaged and could cause a short-circuit when being plugged in again.
 - Stop using the unit immediately if the mains cable is damaged. A mains cable with damaged insulation can cause electric shocks and represents a fire hazard.
 - Do not use any force when operating the controls, sockets or cables.
- Please also read and follow the safety advice on page 7.

Positioning in the room

The Sound Projector gives out surround sound by reflecting projected sound waves off the walls in your room. The surround sound effect generated by this unit may not be sufficient if the unit is installed in a room with the following characteristics.

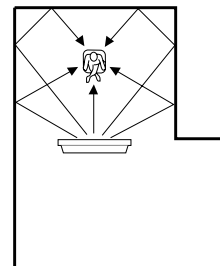
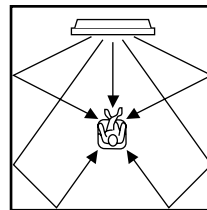
- Rooms in which the walls are not suitable for reflecting soundwaves.
- Rooms with sound damping surfaces.
- Rooms with dimensions outside the following range: width (3 - 7 m) × height (2 - 3.5 m) × depth (3 - 7 m).
- Rooms in which the listening position is less than 1.8 m away from the loudspeaker position.
- Rooms in which, for example, furniture could block the path of the sound beams.
- Rooms in which the listening position is close to the wall.
- Rooms in which the listening position is not in front of this unit.

Install the Sound Projector in a position where the path of the sound beams is not impeded by obstacles, such as furniture. Otherwise the desired surround sound effects may not be obtained.

You can install the unit parallel to the wall or in a corner.

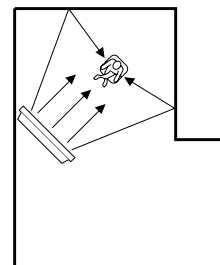
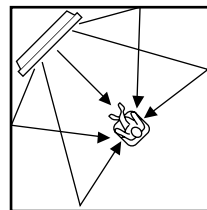
Position parallel to the wall

Install the Sound Projector exactly in the middle of the wall, measured precisely from the left and the right corner.



Position in a corner

Install the Sound Projector in a corner at an angle of 40° to 50° to the adjoining walls.



Initial set-up

Set-up solutions

You can arrange your Sound Projector in different set-ups depending on which other equipment you are connecting to it and the layout of the room. You are urgently recommended to use the set-up solutions intended and tested by Loewe. Pay attention to the advice given in the respective enclosed instructions for set-up.

Wall mounting

You can use the wall bracket supplied to mount your Sound Projectors on the wall opposite your listening position.



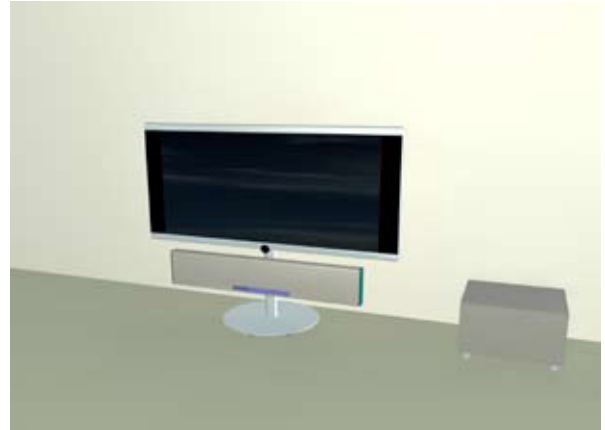
Mounting on a table

You can use the "Table Stand I Sound Projector" which can be supplied as an accessory to set up your Sound Projector on a flat surface.



Mounting on a floor stand

You can use the "Floor Stand 5 MU" which can be supplied as an accessory to set up your Sound Projector on the floor in connection with a Loewe TV set.



Please ask your Loewe dealer about other set-up solutions.

Connecting the Sound Projector

You can connect various sound sources to the Loewe Sound Projector.

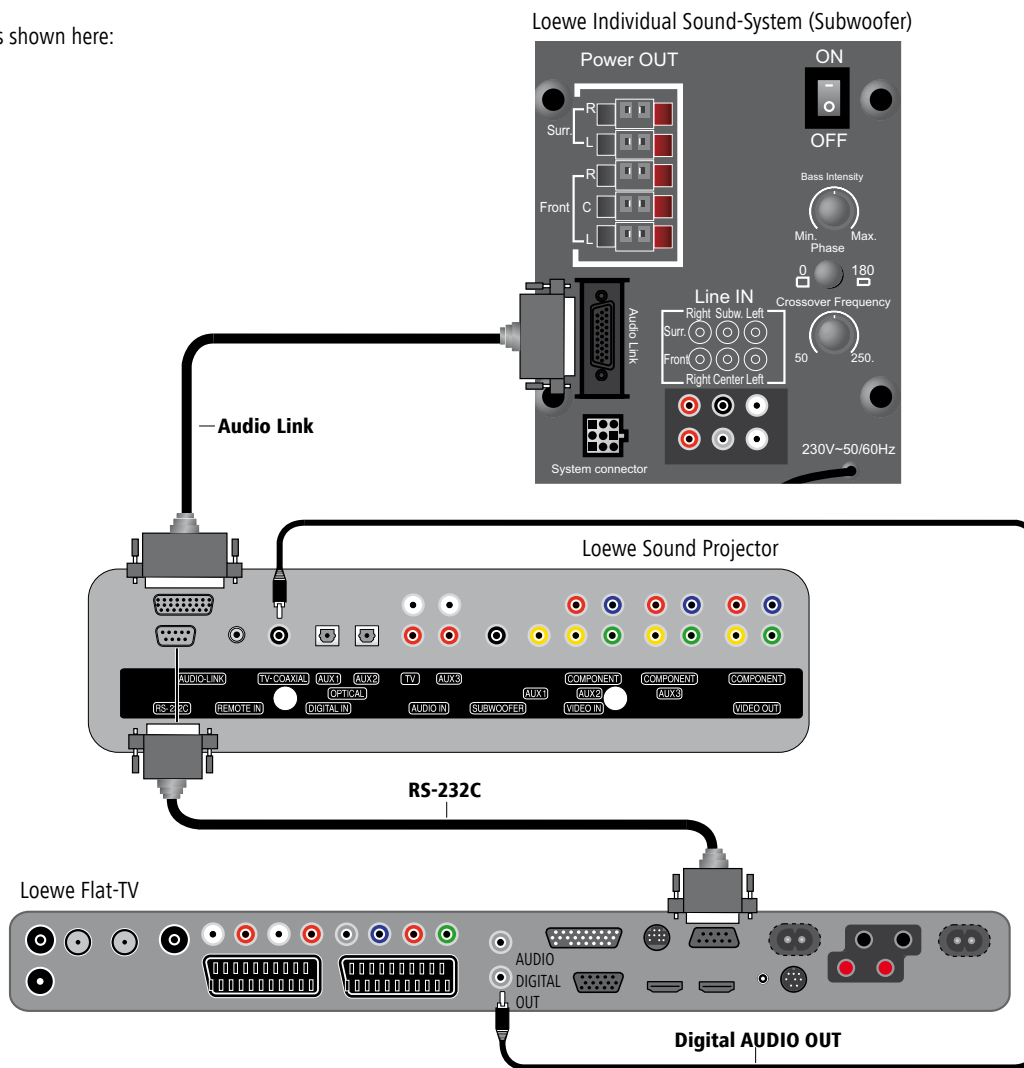
- Loewe TV sets from Chassis Digital+ HD100 [L2710] upwards. The device combination Loewe Sound Projector and Loewe TV set (from Chassis Digital+ HD100 [L2710]) is particularly easy to connect and operate (refer to page 10 onwards).
- Loewe TV sets without RS-232C system interface (page 11).
- Additional accessories. Refer to page 12.

Initial set-up

Connecting to Loewe TV sets with RS-232C system interface

Loewe TV sets with Chassis Digital+ HD (L2700) are compatible with the Sound Projector with software from V4.x onwards. Please contact your Loewe dealer if you require a software update.

Make the connections as shown here:

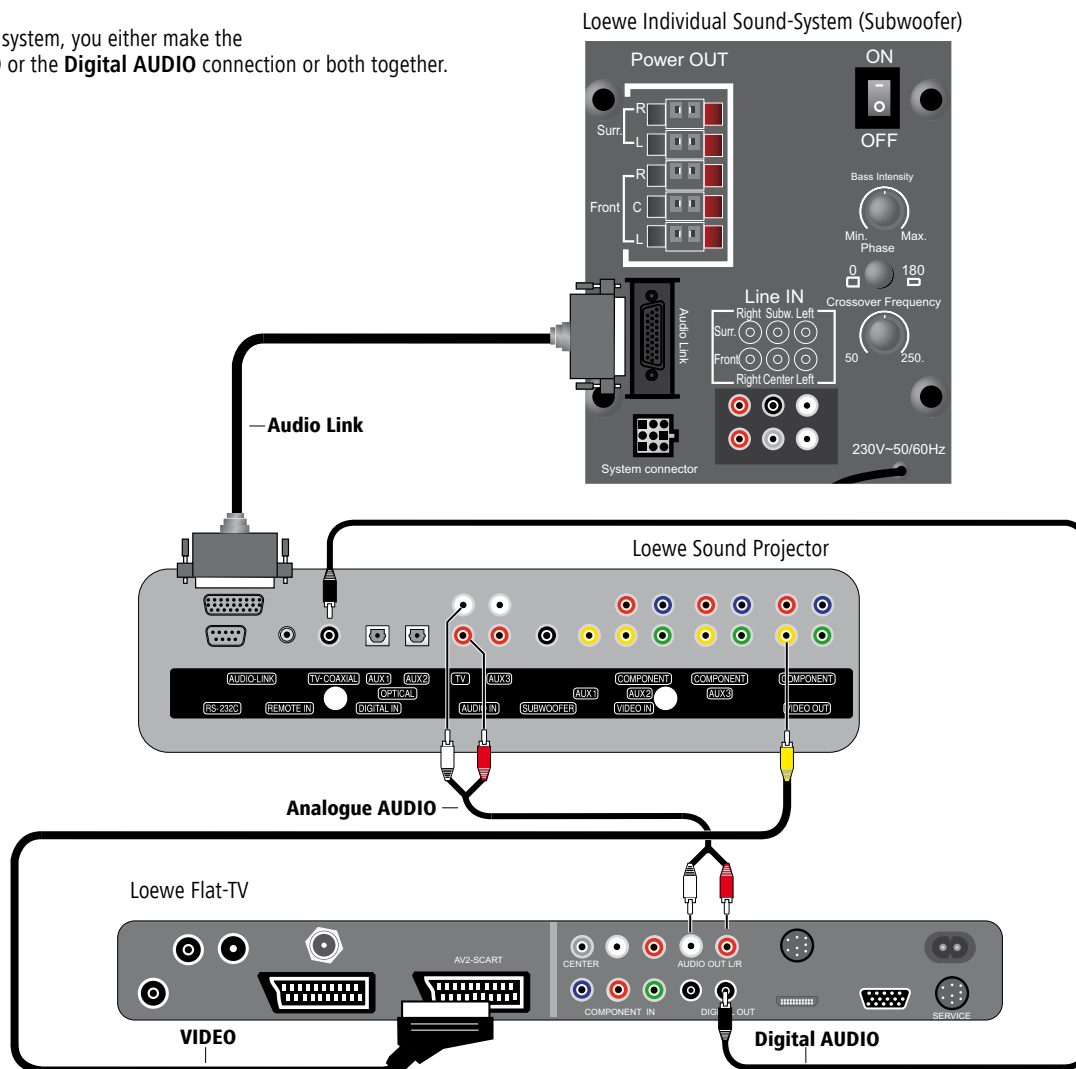


Initial set-up

Connecting to Loewe TV sets without RS-232C system interface

Make the connections as shown here:

Depending on the system, you either make the **Analogue AUDIO** or the **Digital AUDIO** connection or both together.



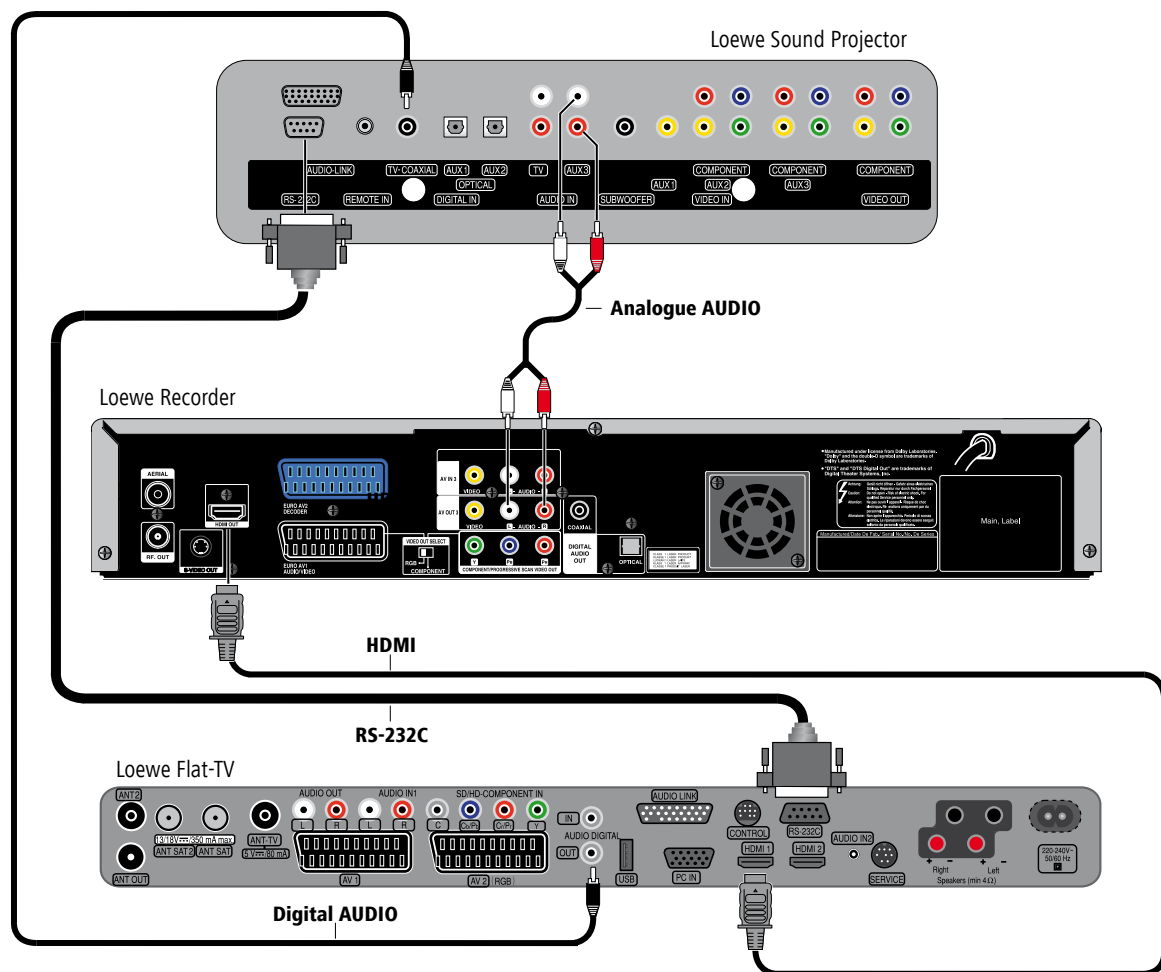
Initial set-up

Connecting the accessories

Make the connections as shown here (example: connection of a Loewe DVD recorder):

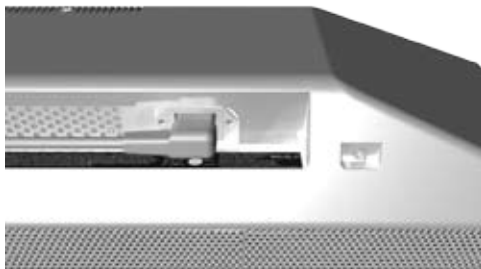
Depending on the system, either make the **Analogue AUDIO** or the **Digital AUDIO** connection.

As required, you can connect additional audio sources to the interfaces **Optical AUX1/2**, **TV-COAXIAL**, **AUDIO IN TV** or **AUDIO IN AUX3**.



Initial set-up

Connecting to the mains supply



Select the mains cable suitable for use in your country. First of all, plug the mains cable plug into the power supply socket on the back of the unit and then plug the mains plug into a mains socket 220-240V~ 50 Hz.

Using the remote control for the first time



To insert or change the batteries, press on the arrow. While doing so, simply slide the battery compartment lid down and remove it. Insert alkali manganese batteries LR 03 (AAA) and ensure the correct position of + and -. Slide the cover on again from the bottom.

Adjusting the remote control for the system being used

Depending on which system configuration you are operating, it is necessary to adjust the remote control to the appropriate mode.

Loewe TV set with RS-232C



Loewe TV set without RS-232C



*

* Factory settings

The button combination given must be kept pressed until the corresponding LED flashes twice (approx. 5 seconds).

Switching on/off



Set the remote control up for TV operation.



Press the on/off button on the remote control to switch on the Loewe TV set.

► If the Loewe Sound Projector is operated in connection with a Loewe TV set with Chassis Digital+ HD100 (L2710) or Digital+ HD (L2700) with software from V4.x onwards, the Sound Projector will switch on or off automatically with the TV set.

When connected to a TV set without RS-232C system interface:



Set the remote control up for Sound Projector operation.



Press the on/off button on the remote control.

► When switched off, only the on/off button on the front of the Sound Projector or on the remote control is active.

Acoustic room set-up

For the sound field of the Sound Projector to be aligned directly to your listening position, adjust the unit to your actual room. This is done using the microphone supplied and an automatic sequence controlled by the Sound Projector. The following steps are required:

A. Measuring the actual room.

B. Optimising the sound beams.

C. Optimising the sound (delay, volume, frequency, if applicable subwoofer).

You can save up to three sound set-ups. This allows you, for example, to take different listening positions, the actual room or TV positions into consideration when using a Loewe TV with swivel caster control. These sound set-ups can then be requested again as required (page 15, 18).

Initial set-up

Connecting and setting up the microphone

Using the microphone supplied, the Sound Projector evaluates the test signals it generates and can thus adjust the sound output to your actual room.

- ➡ Protect the microphone from heat and from direct sunlight.
- ➡ Do not use an extension lead for the microphone.
- ➡ Position the microphone where you are planning to have your listening position (ear height).
- ➡ Avoid obstacles between the microphone and the walls.
- ➡ With a subwoofer connected where required, set the volume to medium and set the transmission/high-pass frequency to maximum.

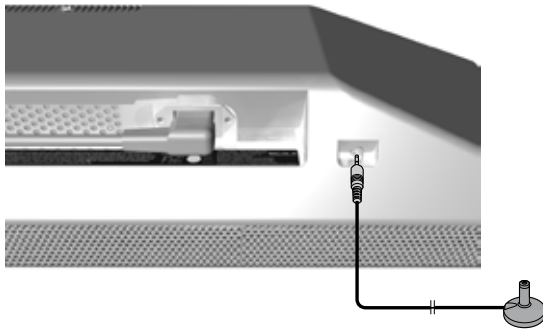


Press the on/off button on the unit or



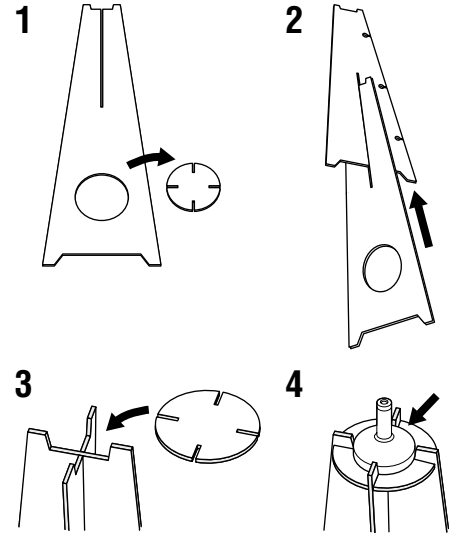
the on/off button on the remote control to switch the unit off.

Connect the microphone supplied to the socket **MIC-IN** on the underside of this unit.

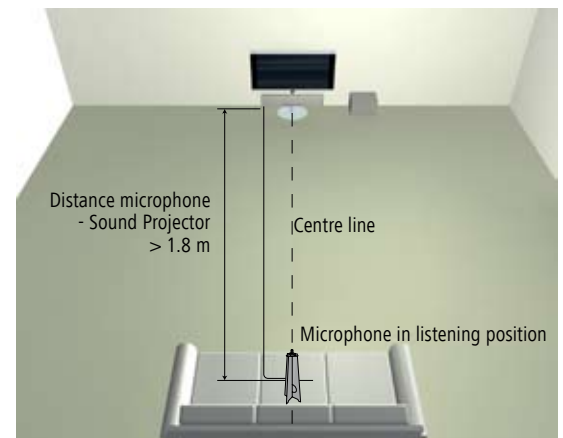


Assemble the stand supplied:

1. Separate the individual parts from each other (1).
2. Push the two long parts together (2).
3. Put the round part on top (3).
4. Place the microphone on the round part (4).



Position the microphone at least 1.8 m away from the Sound Projector centred on it on a level surface. Use the stand supplied to set up the microphone at the height of your required listening position, pointing upwards.



Initial set-up

Auto set-up (TV sets with RS-232C System Interface)

►► Ensure that the devices are set up correctly (page 8/9), all cables are connected properly (page 10,13) and that the microphone is connected and positioned correctly (page 14).

TV

Set the remote control up for TV operation.



Press the on/off button on the remote control to switch on the Loewe TV set and the Sound Projector.

MENU

Call up the TV menu.



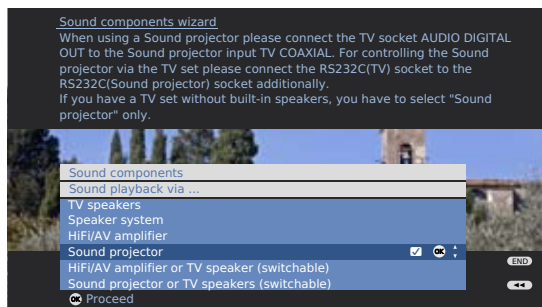
◀ ▶ Select **Connections**.

▼ Change to the menu line below.

◀ ▶ Select **Sound components**.

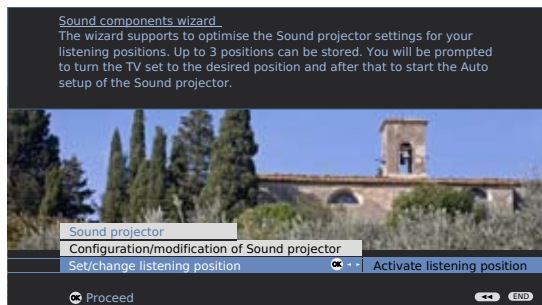
OK Select **Sound components wizard**.

The selection **Sound playback via ...** appears.



▲ ▼ Select **Sound Projector** or **Sound Projector or TV speakers (switchable)** (page 24).

Confirm **OK**.

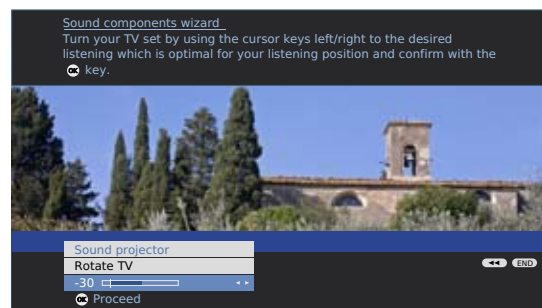


OK Call up menu **Set/change listening position**.

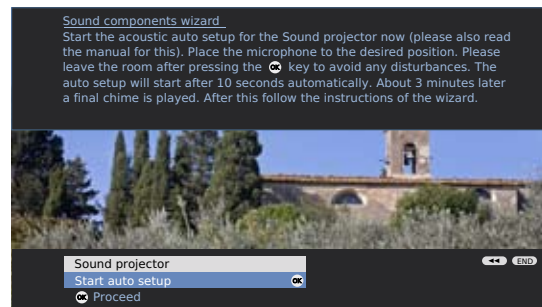


◀ ▶ Select one of the memory positions **Position 1-3 (MEM1-3)**.

Confirm **OK**.

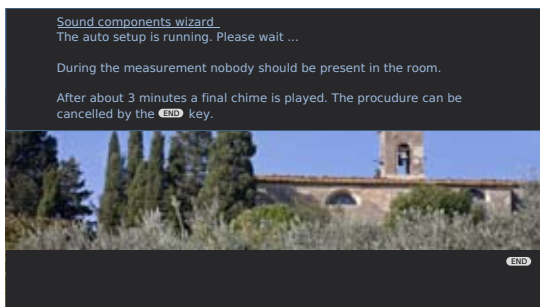


If the Loewe TV set is equipped with swivel caster control, now use ◀ ▶ to turn the TV to the required listening position.



OK Start auto setup.

Initial set-up



► During auto set-up, the listening room should be free of noise interference. Please leave the room during this time so that the sound beams can spread without disturbance.

► If an error occurs during auto set-up, a warning will sound and a message will appear on the TV screen (page 26). If necessary, check the above described conditions for the Sound Projector to work perfectly.

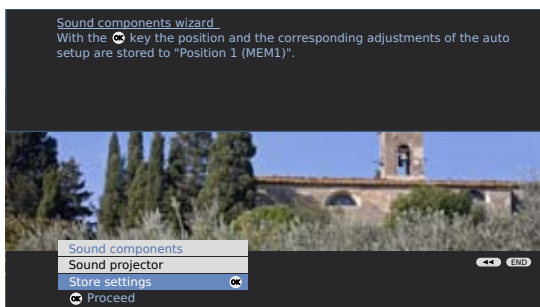
► Auto set-up takes about 3 minutes and a final chime sounds when it finishes.

► You can save three listening positions and call them up again, for example, to be able to take changing conditions in the listening room into consideration.

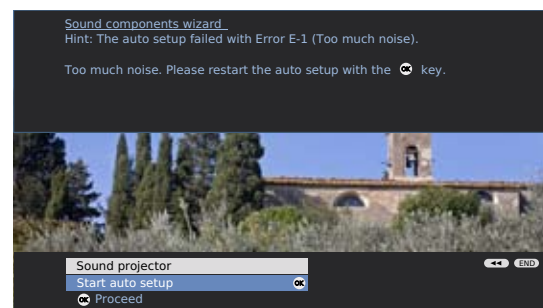
► Position the microphone at least 1.8 m away from the Sound Projector centred on it on a level surface.

After auto set-up has been completed, a message will appear on the screen.

Example 1 - successful auto set-up:



Example 2 - failed auto set-up:



► If the message "Note: The auto set-up failed due to problem E-1 (room is too noisy)" is displayed, repeat the auto set-up process. Please also read the "Error messages for auto set-up" on page 26.

OK Apply results of auto set-up.

Remove the microphone from the Sound Projector now.

The Sound Projector is now ready.

You will find information on operating the Sound Projector from page 19 onwards.

Initial set-up

Auto set-up (TV sets without RS-232C System Interface)

► Make sure that the devices are set up correctly (page 8/9), all connections have been made properly (page 11,13) and that the microphone is connected and set up correctly (page 14).

Settings on TV set

On your TV set, (with Loewe TV sets in the "Connection wizard"), set the audio output to **HiFi/AV amplifier**.

Setting user interface language



Set the remote control up for TV operation.



Press the on/off button on the remote control to switch on the Loewe TV set.



Call up **AV selection**.



◀ ▶ Select the **AV programme position** that the Sound Projector is connected to.

Confirm **OK**.



Set the remote control up for Sound Projector operation.



Press the on/off button on the remote control to switch on the Sound Projector.



Press the button for a long time.

The menu **LANGUAGE SETUP** appears.



▲ ▼ Select required language.

Confirm **OK**.

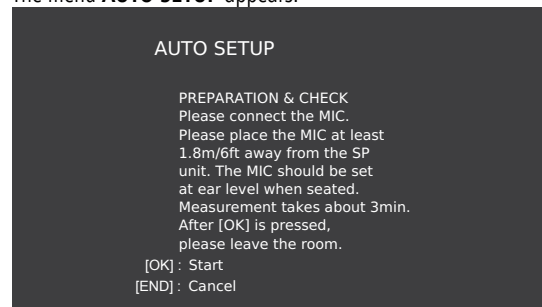
The language selected is also shown on the display of the Sound Projector (display always in English).

Starting auto set-up

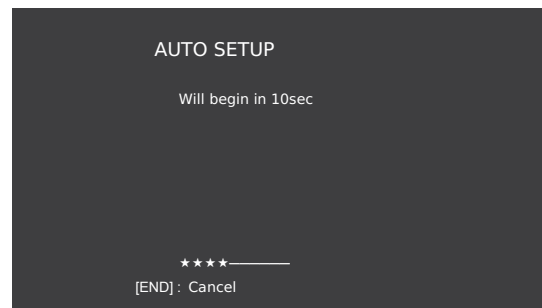


Press the button for a long time.

The menu **AUTO SETUP** appears.



OK Start auto set-up.



► During auto set-up the listening room should be free of noise interference. Please leave the room during this time so that the sound beams can spread without disturbance.

► If an error occurs during auto set-up, a warning will sound and a message will appear on the TV screen (page 26). If necessary, check the above described conditions for the Sound Projector to work perfectly.

► Autoset-up takes about 3 minutes and a final chime sounds when it finishes.

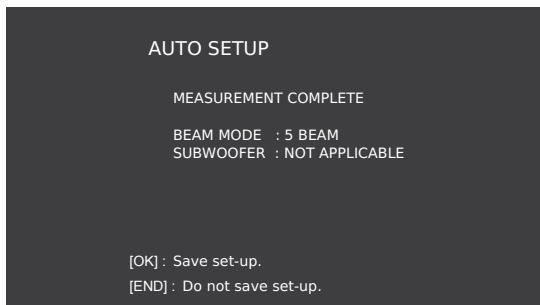
► You can save three listening positions and call them up again, for example, to be able to take changing conditions in the listening room into consideration.

► Position the microphone at least 1.8 m away from the Sound Projector centred on it on a level surface.

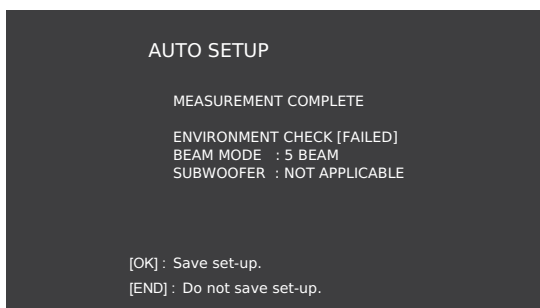
Initial set-up

After auto set-up has been completed, a message will appear on the screen.

Example 1 - successful auto set-up:



Example 2 - failed auto set-up:



► If the message **Error E-1** is displayed, repeat the autoset-up process. Please also read the "Error messages for auto set-up" on page 26.

OK Apply results of auto set-up .

Remove the microphone from the Sound Projector now.

The Sound Projector is now ready.

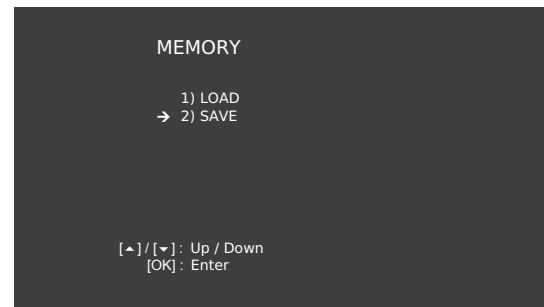
You will find information on operating the Sound Projector from page 19 onwards.

Saving sound set-up

You can save up to three sound set-ups. This allows you, for example, to take different listening positions, the actual room or TV positions into consideration when using a Loewe TV with swivel caster control. You can then call up these sound set-ups at any time.



Press the button for a long time. The menu **MEMORY** appears.



▲ ▼ Select the option **SAVE**.

Confirm **OK**.



▲ ▼ Select the option **MEMORY1-3**.

Confirm **OK**.

► All settings you adjusted in the Sound Projector menus are permanently stored by saving.

Everyday use

Playback

Selecting signal

You can play backsound from connected devices.



Press **AUX (PIP)** on the remote control several times



or on the unit press **SOURCE** several times to select the required signal source.

The name of the selected input signal source and the type of corresponding input mode are shown on the Sound Projector display.

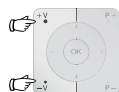
Switch sound on/off



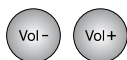
Sound off;

Sound on: Press button again or adjust volume **V+**.

Adjusting volume



V+ / V- volume up / down



or on the unit press **Vol - / Vol +** .

The volume bar is shown briefly if no other menu is displayed.

Other sound settings for TV sets with RS-232C System Interface

▮▮▮ As long as the volume bar or the selection of loudspeakers can still be seen in listening mode.



▴ Call up additional sound settings.

◀ ▶ Select sound settings.

▼ Change to the menu line below.

◀ ▶ Make changes.

▮▮▮ You can also make additional sound settings on Loewe TV sets under the **TV menu – Sound**.

Loading listening position

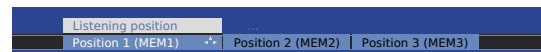
You can call up the listening position that you saved previously (page 15, 18).

TV sets with RS-232C system interface



▮▮▮ No further menu is shown.

◀ ▶ Select.



◀ ▶ Select one of the memory positions Position 1-3 (**MEM1-3**) .

Confirm **OK**.

TV sets with an RS-232C system interface and swivel caster control



▮▮▮ No further menu is shown.

◀ ▶ Select.



◀ ▶ Select one of the memory positions Position 1-3 (**MEM1-3**). These are marked on the bar.

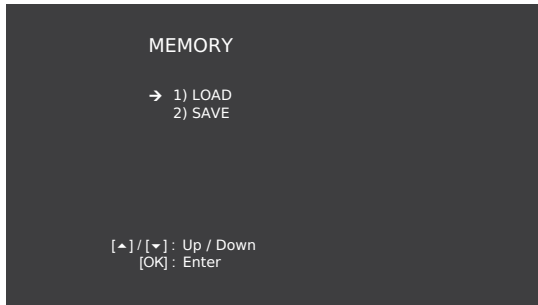
Confirm **OK**.

Everyday use

TV sets without RS-232C system interface

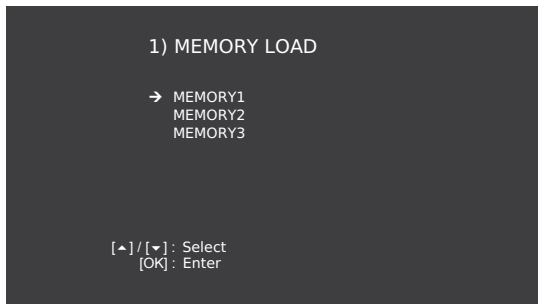


Press the button for a long time. The menu **MEMORY** appears.



▲ ▼ Select the option **LOAD**.

Confirm **OK**.



▲ ▼ Select the option **MEMORY1-3**.

Confirm **OK** 2x.

► All settings you made previously that you did not save are lost when you load the content of the memory.

Select sound mode

You can choose between different surround sound modes.



Select sound mode by pressing several times.

5 Beam The sound beams from all 5 channels are emitted.

The surround sound effects come into their own when they play back media recorded in multichannel format.

Stereo+3 Beam The sound is emitted directly in stereo via the left and right front channel as well as via the centre channel. The left and right surround channel are emitted via sound beams.

This mode is suitable for playing back live recordings for example. Singing and instrumental sounds can be appreciated best near the middle position, whilst the sound reflections generated on site can be heard on your left and right.

3 Beam The left front and surround channel, as well as the right front and surround channel, are emitted via sound beams.

The centre channel is emitted directly. This mode is most suitable for watching films with the whole family due to the extended listening position range. You can also use this mode if the listening position is near the back wall meaning that the left and right surround beam can not be reflected.

Stereo The sound is emitted in stereo via the left and right front channel.

Everyday use

Selecting input mode

You can select the audio input signal type of the set input signal source.

➡ In most cases, setting the input mode to **AUTO** is recommended.



Select the input mode by pressing **IN-MODE** several times.

Signal source shown in the display

TV / AUX3 TV Auto - TV DTS - TV Analogue

AUX1 DVD Auto - DVD DTS

AUX2 AUX Auto - AUX DTS

Selecting signal source



Press **AUX (PIP)** several times on the remote control to select the required signal source.

Decoder displays

Depending on the input signal source and the surround mode selected, the indicators on the display of the Sound Projector light up as follows.

PCM When playing back PCM signals.

dts When playing back PCM or Neo:6 signals.

DIGITAL When playing back Dolby Digital signals.

PL When playing back Dolby Pro Logic signals.

PL II When playing back Dolby Pro Logic II signals.

Surround modes and recommended signal sources

Surround mode Recommended signal source

dts Neo:6 films, music

PL All signal sources

PL II Films, music, games

➡ The surround modes are available if another sound beam mode is selected as the stereo playback.

➡ If you select an input signal source (page 19), the surround mode that was used for the previous input signal source selected is retained.

➡ If you switch this unit off and on again, the surround mode used for the previous input signal source selected before switching off is retained.

➡ Surround modes are only available if the sound field programmes have been deactivated (page 22).

➡ If you press the button **ASSIST** on the remote control and no surround modes are available, **Prohibit** will appear on the display of the Sound Projector.

➡ The surround modes are only available if 2-channel signals have been set up. If you try to switch between surround modes when 5.1 channel signals are set up, **Prohibit** will appear on the display of the Sound Projector.

Everyday use

Playback of 2-channel signal sources with surround sound

This unit can process 2-channel signal sources for 5.1 channel playback in such a way that by switching the surround mode, you can enjoy a number of surround sound effects.

► Surround modes are only available if the sound field programmes have been deactivated (this page). Moreover, the sound mode has to be set to 5-Beam mode, stereo-plus-3-Beam mode or to 3-Beam mode (page 20).

ASSIST

Press several times to select surround mode.

PRO LOGIC, PLII Movie, PLII Music, PLII Game, Neo:6 Cinema, NEO:6 Music

► If **Prohibit** is shown, then the function you want is not possible.

Setting surround mode parameters

To be able to balance the surround effect precisely, you can configure the parameters for Dolby Pro Logic II Music and DTS Neo:6 accordingly.

ASSIST

Select **PLII Music** or **NEO:6 Music**.



▲ ▼ Select option.

◀ ▶ Set / select parameters.

Options with Dolby Pro Logic II

PANORAMA Gives the left and right front channel a panorama effect which covers the whole surround sound field to give a feeling of expanse.

Selection options: **ON/OFF**.

DIMENSION To set the required volume balance between the front and back surround channels.

Control range: -3 (in surround direction) up to +3 (in front direction).

CT WIDTH This function distributes the signal of the centre channel to the left and right. If this value is set to "0", the middle channel only emits the sound signal for the centre channel. Positive values impart a wide area of the centre loudspeaker.

Option with DTS Neo:6

C. IMAGE Adjusts the centre sound from three channels (front and in the middle) in various stages. Positive values impart a wide area of the centre loudspeaker.

Sound field programmes

This unit is equipped with a digital sound field processor which contains several sound field programmes which you can use to enhance your listening pleasure. Most of the sound field programmes are precise digital reproductions of acoustic environments which actually exist whether famous concert halls, music performance venues or cinemas.

An important factor which contributes towards producing the rich, full sound of a real instrument is the numerous reflections from the walls of the room. These reflections not only bring the sound to life, but also allow the listener to locate the precise position of the instruments and to define the size and shape of the room the listener is sitting in.


Using the colour keys you can select the following sound field programmes based on your own listening preferences while playing back music, films or sport programmes.


Sound field programme	Source	Description
Music Video	Music	This programme gives you the feeling of being in an actual jazz or rock concert.
Concert Hall		This programme generates an atmospheric effect of a large, round concert hall and makes you feel as if you are sitting close to the middle of the stage.
Jazz Club		This programme recreates the acoustic environment of "The Bottom Line", a famous jazz club in New York.
Sci-Fi	Film	This programme reproduces dialogue and sound effects in modern science fiction films with great clarity.
Spectacle		This programme reproduces an expansive, spacious environment and conveys the impression of spectacular scenes.
Adventure		This programme reproduces the enthralling environment of the newest action films and allows you to feel the dynamics and excitement of fast scenes.
Sports	Sport	This programme reproduces the energetic environment of live sports programmes, merges the commentator's voice in the centre with the overall atmosphere of the stadium and gives you the feeling of being in the middle of the stadium or of sitting in the grandstand.


Everyday use

Activating sound field programmes

 Select the sound field programme **Music**. By pressing several times, select the programmes **Music Video**, **Concert Hall** and **Jazz Club**.

 Select the sound field programme **Film**. By pressing several times, select the programmes **Sci-Fi**, **Spectacle** and **Adventure**.

 Select the sound field programme **Sport**.

 Switch off the sound field programme.

Intensity of sound field programmes



▲ ▼ Press briefly. **DSP LEVEL** appears on the display.

◀ ▶ Set level within 4 seconds.

Night mode

The night sound modes are set up to improve the listening experience at night when noise levels are low. Moreover, you can limit the volume level so that when the programme content changes (e.g. through advertising breaks etc.) the volume does not suddenly drastically change.



Press several times to select the required night mode.

Select **NIGHT : CINEMA**, when you are watching a film, to reduce the dynamic range of the film soundtrack so that you can hear the dialogue better when the volume is turned down.

Select **NIGHT : MUSIC**, when you are listening to music sources to enjoy a natural sound.

Select **TV EQUAL VOL**, if you are watching TV programmes.

Select **OFF** to leave the volume mode.



◀ ▶ Set effect level of compression within 4 seconds of selecting night mode.

Select **Effect.Lvl : MIN** for minimal compression.

Select **Effect.Lvl : MID** for normal compression.

Select **Effect.Lvl : MAX** for maximum compression.

Bass mode

If a subwoofer is available, the Sound Projector is capable of producing the impression of an improved bass performance. The bass performance can also be improved without a subwoofer.



Press the button **BASS** several times to select the required bass mode.

Select **TruBass MID** for normal effects.

Select **TruBass MID** for maximum effects.

Select **TruBass OFF** to switch the function off.

Audio Balance

You can set the initial sound beam output level of each channel with the aid of the test sound or the audio output played back in the respective sound beam mode to attain a more authentic surround sound experience.

Using the test sound

You can use the test sound function to emit the test sound from every channel to manually balance the channel levels.



Press the button briefly. A test sound is emitted.



▲ ▼ Select channel. The selected channel is shown in the display.

◀ ▶ Set level.

TEST FRONT L left front channel

TEST CENTER Centre channel

TEST FRONT R right front channel

TEST SUR. R right surround channel

TEST SUR. L left surround channel

TEST SWFR Subwoofer (only if connected)



Switch test sound off.

Everyday use

Sound menu functions for Loewe TV sets with RS-232C System Interface

If the Sound Projector is being operated in connection with a Loewe TV set with an RS-232C system interface (page 10), some special menus will appear on the TV set.



Call up the **TV menu**.

◀ ▶ Select **Sound**.

Change to the menu line below.

◀ ▶ Select required option.

Sound mode

Refer to page 20.

Subwoofer

Here you can set individual parameters for a Loewe Individual Sound-System (Subwoofer) connected to the Sound Projector via Loewe Audio Link (page 10).

Connected select yes / no

Cross over frequency 80 / 100 / 120 Hz

LFE level -20 dB ... 0 dB

Distance to listening position

Room parameter

Here you can set the parameters for setting up the system in your environment.

Mounting Shelf / Wall

Reflections Normal / Echo

Dolby Digital/DTS dynamic range

Here you can set parameters for the required dynamics range of the Sound Projector.

Select DD/DTS dynamics range Min / Standard / Max

Sound from Sound Projector

Here you can set the sound playback with analogue signals.

Select sound from Sound Projector Stereo / Mono

2 sound transmission Select sound 1 / sound 2

Sound via

Here you can select whether you want to play back the sound through the loudspeaker built in to the TV set or using the Sound Projector. To do so, in the menu **Sound components - Sound playback via ...** choose the setting **Sound Projector or TV set (switchable)** (page 15).

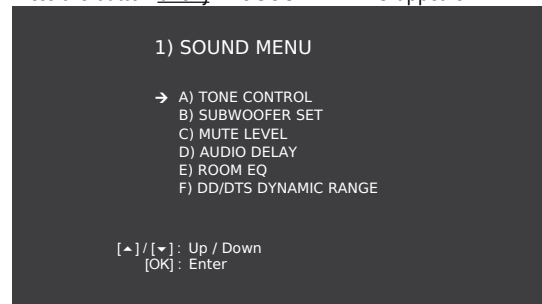
Sound via TV / Sound projector

Sound menu functions for Loewe TV sets without RS-232C System Interface

You can make basic changes in the **Sound menu** on the Sound Projector.



Press the button briefly. The **SOUND MENU** appears.



▲ ▼ Select required option.

TONE CONTROL You can set the proportion of **Highs** and **Lows**.

SUBWOOFER SET You can set parameters for the subwoofer, such as **Bass output**, **Transfer frequency**, **Level** and **Distance** from listening position.

MUTE LEVEL You can set the level to which the sound drops with **Sound off** (page 19).

AUDIO DELAY You can set the delay time between sound and picture to obtain synchronised playback.

ROOM EQ Here you can set the parameters for setting up the system in your environment. Under **SET-UP** you can select: SHELF / WALL;
for **REFLECTIONS**: NORMAL / ECHO


DD/DTS-DYNAMIC RANGE Here you can set parameters for the required dynamic range of the Sound Projector. You can select: Min / Standard / Max.

Confirm **OK**.



Close menu.

Troubleshooting

Problem	Possible cause	Remedy
Not working at all.	Mains cable not plugged in.	Plug the mains cable firmly into the socket on the Sound Projector and then into a 220-240 V 50 Hz socket with protective ground.
The unit suddenly switches to standby.	The internal temperature is too high which has activated the protective circuit to avoid overheating.	Wait for approx. 1 hour until the unit has cooled down and then switch it on again.
No sound.	Faulty connections of input or output cables.	Connect the cables properly (page 10-12). If the problem persists, it is possible that the cables are faulty.
	No suitable input signal source has been selected.	Select a suitable input source using AUX (PIP) or SOURCE .
	The volume is set at minimum.	Turn up the volume.
	The sound is set to mute.	Press  or V + on the remote control to activate audio output again and then adjust the volume.
	Signals are being transmitted from a source component (such as PCM signals with a sampling frequency of over 96 kHz) that this unit is not capable of playing back.	Play back a signal source which emits signals that this unit can process or change the system settings on the source component (page 23).
No sound from the effect channels.	You are trying to play back the signal source or the programme in stereo.	Press one of the sound field programme buttons on the remote control to select a multichannel playback mode and try again to play back the signal source or the programme.
No sound from the centre or the surround channels.	The source level of the affected channel is set to minimum.	Increase the level of the channel (page 23).
The surround sound effects can hardly be heard.	The listening room has an irregular shape.	Install this unit in a square or rectangular room (page 8/9).
	There is no reflection wall for the sound beam.	Try setting up a flat object, such as a screen, as a replacement wall.
There is noise interference if no subwoofer is connected to this unit.	The protective circuit was active because a source with strong bass elements was being played.	Reduce the volume or connect a subwoofer and set the settings for a subwoofer via the sound menu (page 24).
The on-screen dialogue (OSD) does not appear.	The socket VIDEO OUT (Composite) on this unit is not connected to the input sockets on your TV set.	Connect the socket VIDEO OUT (Composite) on this unit to the input sockets on your TV set.
This unit is not working properly.		Unplug the mains plug from the mains socket and then try plugging it in again after 30 seconds.
The effect sounds are not satisfactory.	The original signal source contains surround effects.	Deactivate the surround effect settings on this unit.
Auto set-up is unsuccessful.	The noise level in the listening room is too high.	Ensure that it is as quiet as possible in the listening room.
The remote control is not working properly.	The batteries in the remote control are dead.	Replace the batteries with new ones.


Troubleshooting

Error messages for auto set-up


Error Message	Possible cause	Remedy
ERROR E-1	Your listening room has too much unwanted noise.	Ensure that it is as quiet as possible in your listening room. We recommend choosing a time of day when there is less noise outside.
ERROR E-2	The optimisation microphone was disconnected during auto set-up .	Ensure that the optimisation microphone is firmly connected to the unit (page 14).
ERROR E-3	During auto set-up other operating processes were run on this unit.	During auto set-up do not carry out any other operating processes.
ERROR E-4	The optimisation microphone is not in front of this unit.	Ensure that the optimisation microphone is positioned in front of this unit.
ERROR E-5	The optimisation microphone is not positioned at the right distance from this unit.	Ensure that the optimisation microphone is more than 1.8 m from the front of the unit and is within 1 m of the average height of the unit.
ERROR E-6	The optimisation microphone can not receive the noise produced by this unit because the noise output level is too low.	Ensure that the optimisation microphone is firmly connected to this unit and has been set up properly. If the problem persists, contact your Loewe dealer.
ERROR E-7	An internal system error has occurred.	Repeat auto set-up.
ERROR E-8	The measurement did not end at the expected time and was cancelled.	Repeat auto set-up.
ERROR E-9	Cancelled by user	Repeat auto set-up.

Special functions

The Sound Projector has got additional setting options which are only intended for specialist staff.

 Press button for a long time. The menu **SETTINGS** appears.

► Unless you have sufficient expertise, do not make any changes to the settings in this area, as this may maladjust the unit to the extent that it no longer works properly afterwards.

 Press the button for a long time to close the menu.

Technical Specifications

General

Loewe Sound Projector	Item.No. 67201 A/D00
Power supply	AC 220 - 240V, 50 Hz
Power consumption during operation:	120 W
	Standby: < 0.1 W
Dimensions (approx.)	1015 x 200 x 118 mm (W x H x D)
Weight (approx.)	11.8 kg
Operating temperature	5 °C ... 35 °C
Humidity	5 % ... 90 %

Amplifier

Maximum output power (EIA)	40 x 2 W (1 Hz, 10% harmonic distortion, 4 ohms)
	2 x 40 W (100 Hz, 10% harmonic distortion, 3 ohms)

Decoder

Surround formats	Dolby Digital, Dolby ProLogic II, dts, dts Neo 6
Sound modes	5-Beam, 3-Beam, Stereo + 3 Beam, Stereo
Sound field programmes	7 programmes and OFF can be selected

Loudspeakers

Small loudspeakers	40 x 4 cm cone speakers
Woofers	2 x 11 cm cone speakers

Inputs

AUDIO IN TV	analogue, 1 V, 32 kOhms, RCA socket x 2
AUDIO IN AUX3	analogue, 1 V, 32 kOhms, RCA socket x 2
DIGITAL IN TV-COAXIAL	digital, 0.5 V (p-p), 75 ohms, RCA socket x 1
DIGITAL IN OPTICAL AUX1/2	Optical connection x 1 (TOS link)
VIDEO IN AUX1/2/3	75 ohms, RCA socket x 1
COMPONENT VIDEO IN AUX2/3	Y/Pb/Pr, 75 ohms, RCA socket x 3

Outputs

VIDEO OUT	1.0 Vp-p, 75 ohms, RCA socket x 1
VIDEO OUT COMPONENT	(Y) 1.0 V (p-p), 75 ohms
	(Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA sockets x 3
SUBWOOFER	1.5 V, < 120 Hz, RCA socket x 1

System

Microphone input	jack socket 3.5 mm x 1
RS-232C	9 pin D-SUB
AUDIO-LINK	26 pin D-SUB

Masthead

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Trade Register: Municipal Court Coburg, No. HRB 42243
VAT ID-No.: DE 193216550
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Issue 09.07. 1st edition
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Operation of additional devices

Setting the remote control

Various Loewe devices can be set to be used with the remote control Assist as follows:

Device	button combination
Loewe TV set <u>with</u> RS-232C	 +  *
Loewe TV set <u>without</u> RS-232C	 +  *
Loewe ViewVision 8106 H	 +  *
Loewe Centros 11x2	 +  *
Loewe Viewvision, Centros 21x2 HD	 +  *
Loewe ViewVision DR+ (DVB-T)	 +  *
Loewe Auro 2216 PS	 +  *

* Factory settings

The button combination given must be kept pressed until the corresponding LED flashes twice (approx. 5 seconds).

Operating Loewe equipment

Using the remote control for a Loewe Sound Projector



Press **SP** button until the display above it lights up approx. 5 seconds

Using the remote control for a Loewe recorder



Press **REC** button until the display above it lights up approx. 5 seconds

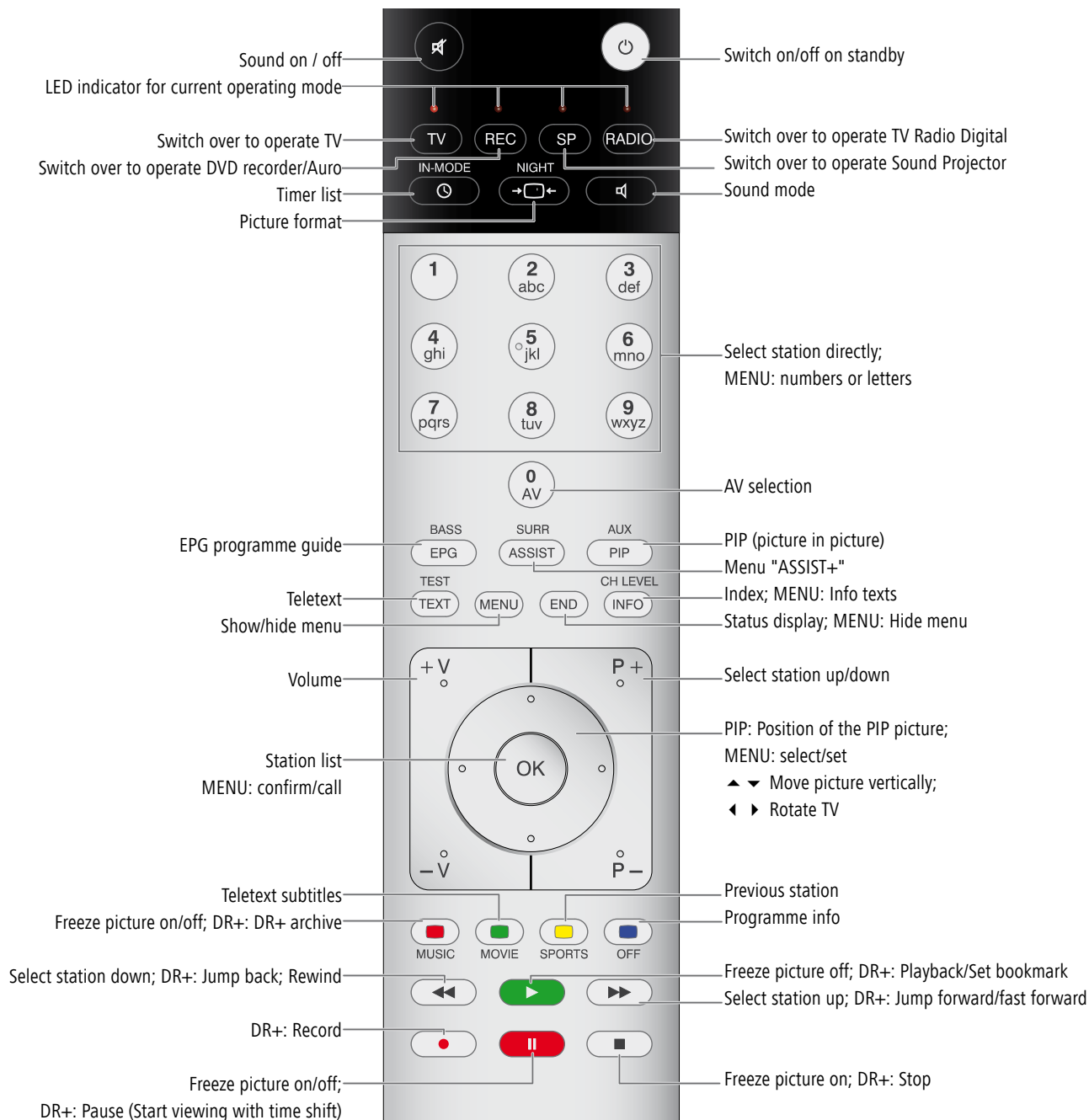
Using the remote control for a Loewe TV set



Press **TV** button until the display above it lights up approx. 5 seconds

Every time a button is pressed, the display of the selected operation mode lights up (TV – REC – SP – RADIO).

Remote control Assist – TV operation



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