



Operating instructions  
Instrucciones de manejo

TV

– Reference 52



**LOEWE.**

233-34068.020




# Quick guide




## Set operating mode

-  TV operation
-  Radio operation



## On/Off of the television set

-  On/Off device in standby  
(Main switch must be turned on)





## Selecting stations

-  **OK** Calling station overview and with  
◀ ▶ ▲ ▼ selecting station
- or
-  **P+ / P-** Programme +/-
- or
-  Selecting station with keyboard




## Sound

-  **V+ / V-** Volume up/down
-  Sound on/off










## Colour key function during TV operation

-     **Red button:** DR archive
- Green button:** Teletext functions
- Yellow button:** Last selected station
- Blue button:** Programme information

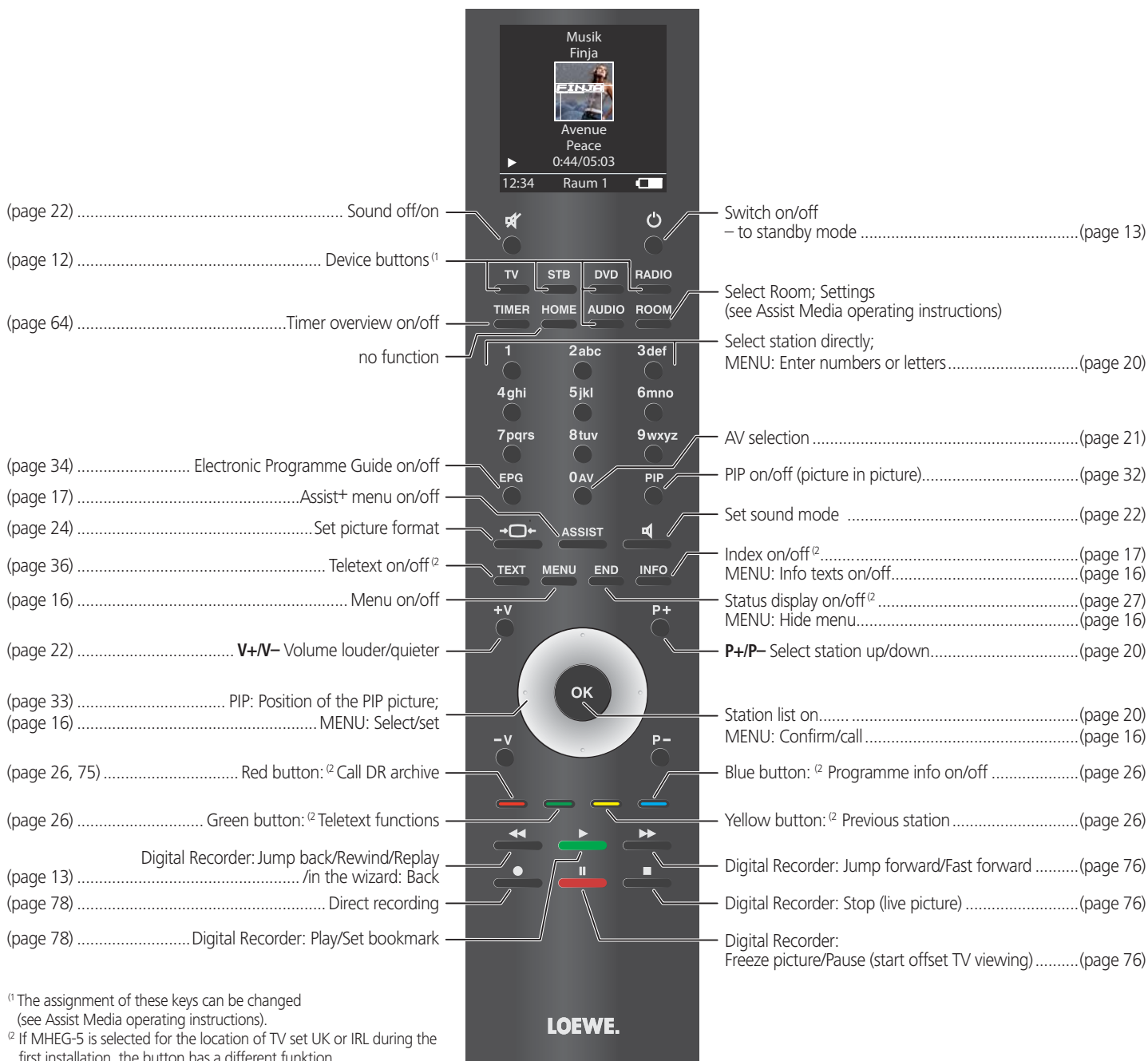
## Colour key function during radio operation

-     **Red button:** On/Off screen
- Yellow button:** Last selecting station

## Button functions

-  **TIMER** On/Off permanent time display  
(Press button twice in quick succession)
-  Adjust picture format
-  **ASSIST** Call Assist+ menu,  
Select operating mode and/or function
-  **PIP** On/Off PIP (picture in picture)
-  **EPG** On/Off EPG (Electronic Programme Guide)
-  **TEXT** On/Off teletext,  
select teletext page with keyboard
-  **INFO** Call index,  
Language, TV set equipment, etc. and/or explanation of  
the individual settings
-  **MENU** Call TV menu,  
carry out settings
-  **END** Call status display;  
with opened menu: Exit menu;  
Terminate inserts

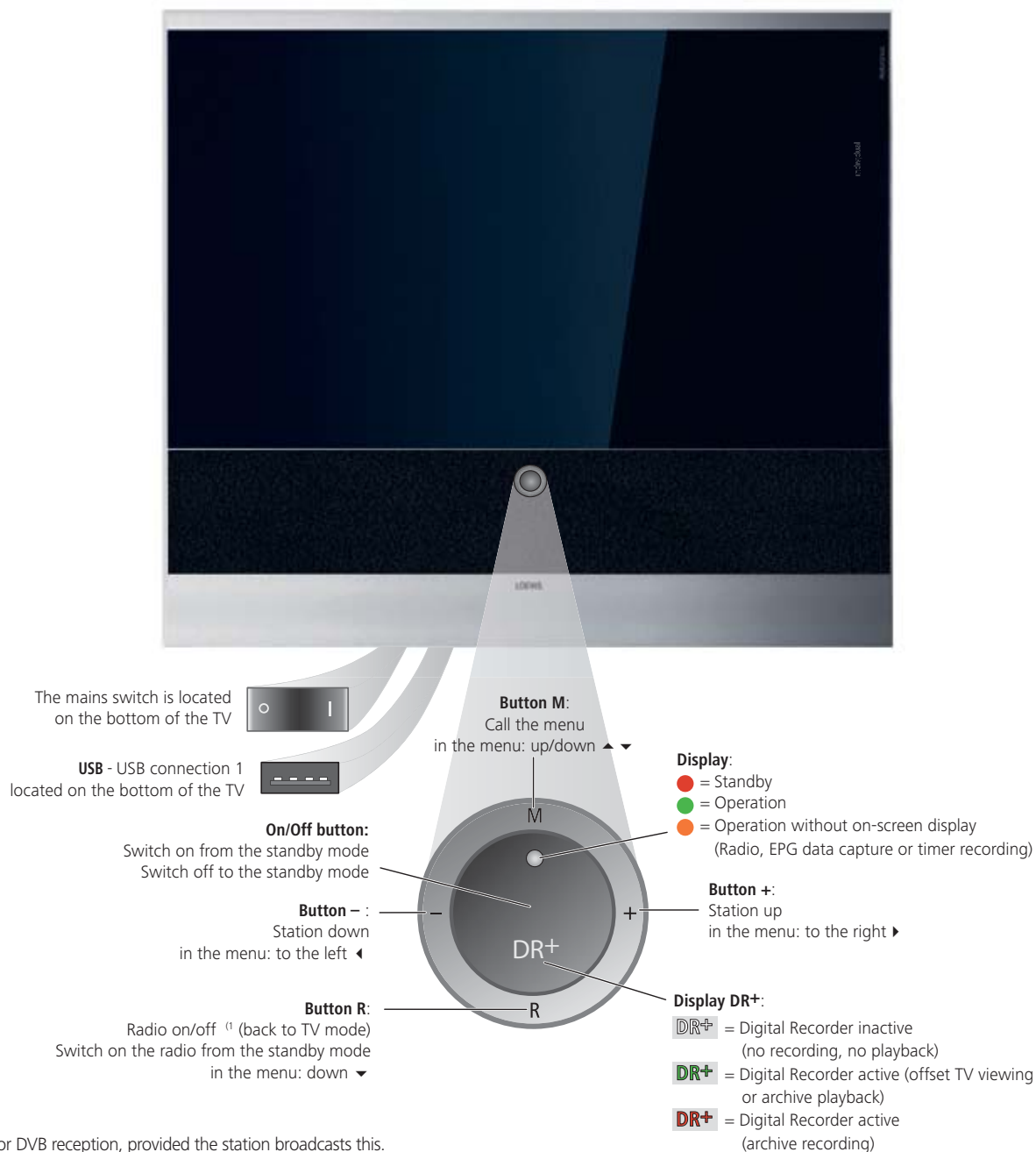
# Remote control – TV functions



<sup>1)</sup> The assignment of these keys can be changed (see Assist Media operating instructions).

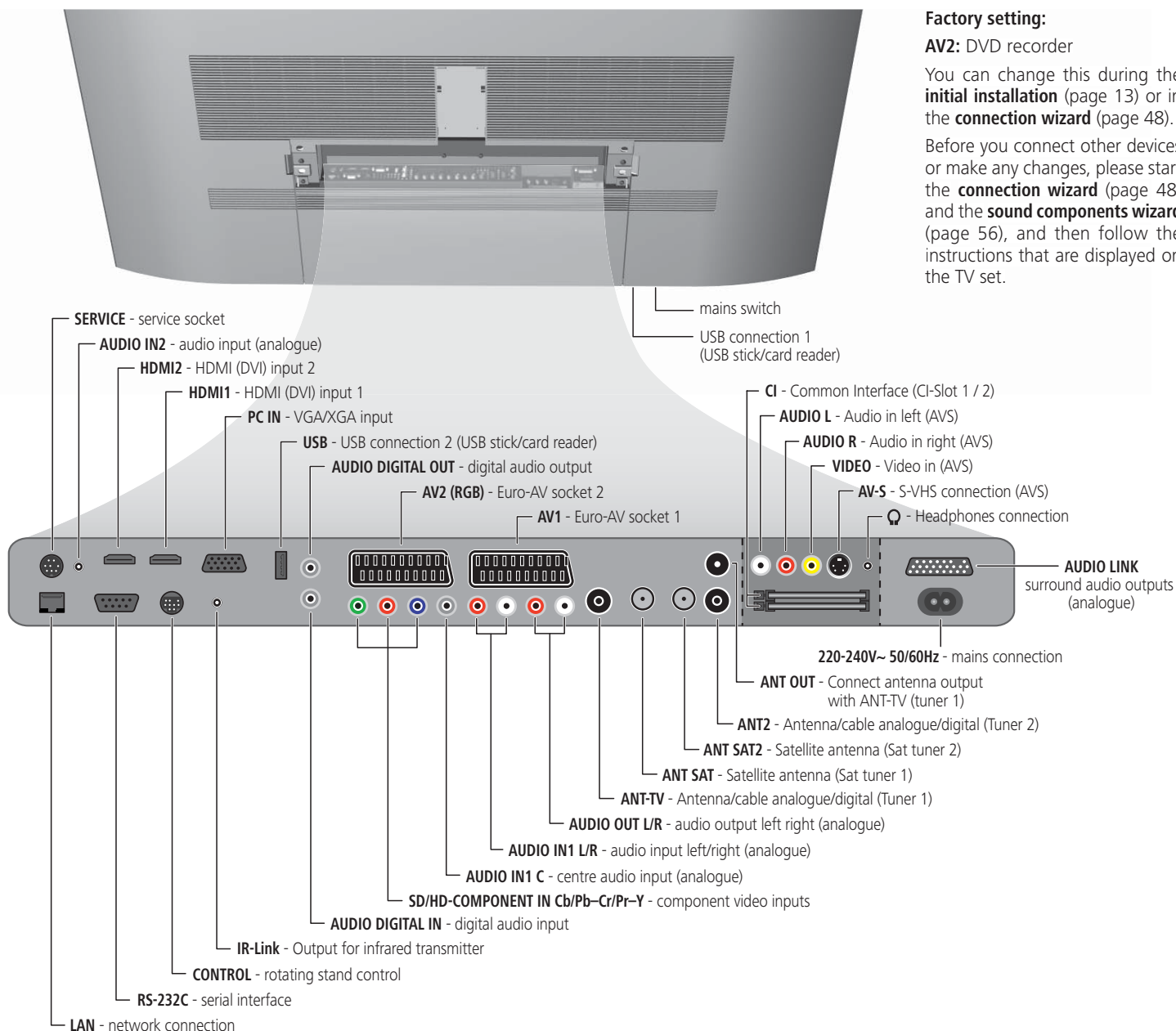
<sup>2)</sup> If MHEG-5 is selected for the location of TV set UK or IRL during the first installation, the button has a different funktion.

# Control unit front side of the device



<sup>(1)</sup> Radio only for DVB reception, provided the station broadcasts this. Otherwise switch over to an audio input.

# Connections rear side of the device



## Factory setting:

**AV2:** DVD recorder

You can change this during the **initial installation** (page 13) or in the **connection wizard** (page 48).

Before you connect other devices or make any changes, please start the **connection wizard** (page 48) and the **sound components wizard** (page 56), and then follow the instructions that are displayed on the TV set.

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# Welcome

## Thank you!

At Loewe, we combine the highest standards of technology, design and user friendliness. This applies equally for TV, video and accessories.



Your new TV set is equipped for the TV standard "HDTV" (High Definition Television). With its high definition screen, the 200 Hz image refresh frequency and the future-oriented digital interfaces HDMI (High Definition Multimedia Interface) it offers possibilities for watching HDTV broadcasts in an excellent picture quality.

HDTV is a worldwide, digital standard in the 16:9 format which revolutionises normal TV viewing. It is broadcast with an up to five times greater resolution than conventional signals and therefore creates an unexpectedly 3D image.

The TV set is equipped for digital reception. You can use the already frequently broadcast "everywhere television" (DVB-T) as well as digital cable (DVB-C) and digital satellite reception (DVB-S/DVB-S2).

If **MHEG-5** is selected for location of TV set UK or IRL, there are some restrictions for reception:

DVB-C and DVB-S reception is **not possible** with MHEG-5, see also on page 14. Common Interface Plus technology will **not work** any more after activating MHEG-5.

The TV set is equipped with a Dolby Digital Decoder. You can connect a speaker system or active speakers and enjoy movie theater sound.

You can connect a card reader or a USB stick with digital photos and/or MP3 music files to the USB connection of your TV set and view your photos or play music via the integrated PhotoViewer/MusicBox software. All the functions can be operated with the Loewe remote control.

We have designed the TV set in such a manner that you can easily operate it with the help of wizards and menus. Information about the menu settings is displayed automatically. You will quickly comprehend the context.

## Scope of delivery

- LCD TV set
- Stand tub
- Mains cable
- Antenna cable
- Remote control Assist Media with charging cradle and operating instructions
- This operating manual

## About this operating manual

For best results regarding safety and the longevity of the set, we recommend you read the chapter "For your Safety" (page 10) before switching it on for the first time.

For many questions concerning the technology you will find an answer in the index of your TV set. If your question concerns TV set operation, you can access a function directly from the index of the TV set. Owing to this possibility, this operating manual only explains the most important operating steps.

The index/glossary from page 117 onwards gives explanations of certain terms used in the TV set and the operating manual.

Paragraphs which begin with the symbol **■** 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 TV set are written in **bold** type.

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

Depending on the connected accessory equipment the menus in the TV set can differ from those described here.

All the station names, programme contents, the illustrated photos, titles, albums and album covers in this operating manual are examples.

## TV set equipment

See the rating plate on the rear of the set for the precise product designation. The precise features are listed in the **Integrated features** item in the index of the TV set (see page 17).



# Welcome

## Operating convenience with wizards

This TV set offers user prompting with wizards that take you through the settings step-by-step.

You can return to the previous step or exit the wizard at any time.

## The wizards in overview

### Initial installation

The initial installation wizard helps you with the initial installation and connection of any existing equipment (see page 13).

### Setting up the antenna

You enter in the antenna wizard which antenna signals are available to you. The antenna wizard is called in initial installation (see page 13). You can also call the antenna wizard in the **TV menu** under **Connections** → **Antenna DVB** → **Antenna DVB-S** or **Antenna DVB-T**.

### Search wizard

If you want to search for new stations after the initial installation, or if you have set up your antenna for the first time, then you can handle this task with the help of the search wizard (see page 28). You will find the search wizard in the **TV menu** under **Settings** → **Stations** → **Search wizard**.

### Connecting external devices

The connection wizard ensures that all devices are correctly registered and connected. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 48). You will find the connection wizard in the **TV menu** under **Connections** → **New devices/modifications**.

### Connecting sound components

The sound component wizard ensures that the components which reproduce the TV sound are correctly registered, connected and set. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 56). You will find the sound components wizard in the **TV menu** under **Connections** → **Sound components**.

### Assist<sup>+</sup>

You can select the most important operating modes directly with the Assist<sup>+</sup> menu (**ASSIST button**). Selectable modes are: TV, Radio digital, Teletext, DR archive, PhotoViewer, MusicBox, CA module and Index (see page 17).

## Programming and managing recordings

The recording wizard helps you to programme a video recording with a video recorder, DVD recorder, or the integrated Digital Recorder (see page 63).

### Station list

The station list is a list of all stored stations. You can also use the station list for switching stations conveniently (see page 20).

### Software update wizard

The latest software for your TV set can be loaded via DVB stations or via USB stick (see page 40).

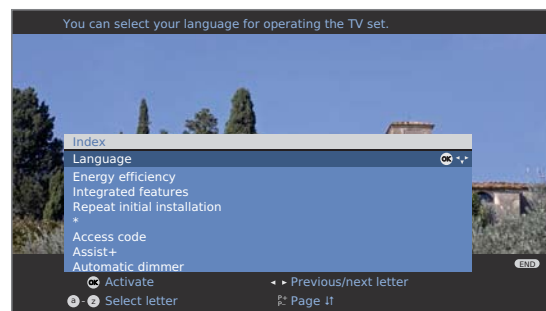
## Info display and TV index

### An information display for each menu item

The info display automatically shows content-based info texts in the upper part of the screen for each menu item. It forms a convenient operating system with the index (see page 16).

### An index in the TV set

The index gives you an overview of the functional scope of your TV set. You can also start wizards and menu settings directly from here (see page 17).



# For your safety

For your own safety and to prevent unnecessary damage to your device, read and comply with the following safety instructions:

## Proper use and environmental conditions

This TV set is designed exclusively for reception and reproduction of video and audio signals and is designed for living rooms or office facilities, and should not be operated in rooms with high **humidity**, such as a bathroom, or sauna, or where there is a high **concentration of dust** (e.g. workshops). The manufacturer's warranty is only valid for use in the specified permissible environment.

If the set is used outdoors ensure that it is protected against **moisture** (rain, splashing water, or dew). High humidity and dust concentrations cause leak currents in the device, which can cause a shock hazard if the device is touched, or a fire.

If you have brought the set into a warm environment from the **cold**, then wait for about 1 hour before switching it on to avoid formation of **condensation**.

Do not place any **objects** filled with **liquid** or burning candles on the device. Protect the set against dripping and splashing water.

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

## Transporting

Only transport the device in **vertical position**. Grasp the device on the upper and lower edges of the housing.

The LCD screen is made of glass or plastic and can break if not handled properly.

If the LCD screen is damaged and **liquid crystal** escapes, wear rubber gloves when moving the device. In the case of **skin contact** immediately wash thoroughly with water.



## Power supply

The **wrong voltage** can damage the set. This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the mains cable provided. The **mains plug** of the TV set must be easily accessible so that the device can be disconnected from the mains at any time. When you unplug the mains plug, do not pull on the **cable** rather pull on the plug housing. The cable in the mains plug could be damaged and cause a **short circuit** the next time it is plugged in.

Lay out the **mains cable** in such a manner that it cannot be damaged. The mains cable must not be kinked or laid over sharp edges, stepped on or exposed to **chemicals**; The latter also applies for the entire equipment. A mains cable with damaged insulation can cause **electrical shock** and is a **fire hazard**.

## Air circulation and high temperatures

The **vent slots** on the **rear panel** of the set must always be kept free. Please do not place newspapers or cloths on/over the TV.

It must be ensured that there is at least 10 cm clear around the sides and at the top for air circulation if the equipment is to be fitted in a **cabinet**.

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

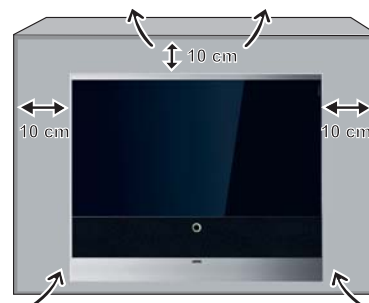
The set is suitable for different installation solutions. See the instructions for assembly for the different installation solutions.

Stand the TV set with the floor stand only on a level, **sturdy, horizontal base**. 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 warming through **heating elements**.

Prevent **metal items**, needles, paper clips, liquids, wax, or similar items, from getting into the interior of the device through the **vent slots** in the rear panel. Such objects can cause **short circuits** in the set, 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 **customer service** for more information.



# For your safety

## Repairs and accessories

Never remove the back of the TV set yourself. Only have your TV device repaired or serviced by **authorised television technicians**.

Only use **original accessories** such as Loewe stands if possible (see Accessories on pages 114 and 115).

## Supervision

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

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

## Volume

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

## Cleaning

Clean the TV set, the screen and the remote control unit with a soft, moist and clean cloth only, **without any aggressive or scouring cleaning agents**.

## Thunder storms

Pull out the **mains plug** and all connected **antenna cables** from the TV set in a thunderstorm. Overvoltage caused by **lightning** can damage the set via the antenna system, as well as via the mains. The mains plug and all connected antenna cables should also be pulled out during long periods of **absence**.

## Note on the LCD screen

The TV set you have purchased with LCD screen satisfies the most rigorous quality requirements and has been inspected relative to **pixel errors**. In spite of the utmost care in manufacturing the display, for technical reasons the possibility that some **pixels** will have defects cannot be 100% excluded. Please understand that these types of effects, as long as they are within the standard of specified limits, cannot be considered as a device defect in terms of the guarantee.

Avoid displaying **still images** for long periods of time. It is possible that a copy of the image may remain.

# Environmental protection

## Energy consumption

Your TV set is equipped with an eco-standby power supply. In the standby mode, the power consumption drops to low power (see Technical data on page 112). If you want to save even more energy then switch the device off with the mains switch. However note that in this case, EPG (Electronic Programme Guide) data will be lost, and it may be that programmed timer recordings **cannot** be executed via the TV device.

The power consumed by the TV set in operation depends on the choice of the energy efficiency presetting in the initial installation (page 14).

If you activate the automatic dimming (see page 24), your TV picture will adapt to the ambient brightness. This reduces the power consumption of the TV set.

## Packaging and box

You have made a decision to purchase a high-quality technical product with a long service life. For disposal of the packaging, in accordance with national legislation we have paid a fee to a commissioned recycler to pick up the packaging from the dealer. Nevertheless we recommend keeping the original box and **packaging material** on hand so that the device can be transported with optimal protection if necessary.

## The set



The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. **Old electronic devices** consequently must be disposed of separately. Please do **not** dispose of this device in normal **household trash!**

You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. Additional details about return (also for non EU countries) are available from your local municipal authorities.

# Initial installation

## Installing the TV set

First prepare the chosen installation solution for your TV set. For further installation possibilities, see Accessories (page 115).

## Preparing the remote control unit

For start-up and use of the remote control, see operating instructions for Assist Media.

### Adjusting the remote control for operating the TV set



Press the **TV button**.

You can find out how to operate other Loewe appliances in the operating instructions of the remote control.

## Connecting the TV set

### Connecting to the mains

Remove the cover for the connections.

Connect the TV set to a 220-240V outlet:

First plug the small plug of the mains cable into the mains connection on the rear of the TV, then plug the large plug into a mains power outlet.

### Connecting the antenna

Analogue / DVB-C / DVB-T antenna:

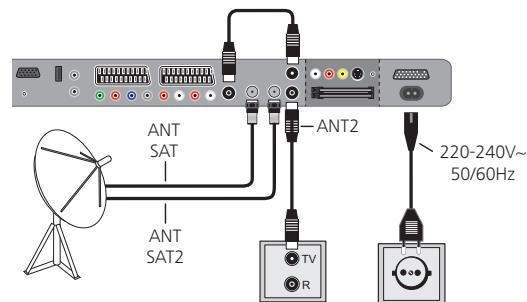
Plug the antenna plug of antenna system, cable system, or room antenna into the **ANT2** socket.

The connecting cable between **ANT-TV – ANT OUT** is plugged at the factory.

Satellite antenna:

Connect an antenna plug, e.g. from the antenna change-over switch or from the twin-LNC of the satellite system to the sockets **ANT-SAT** resp. **ANT-SAT2**.

When connecting only one SAT antenna cable, connect it to **ANT-SAT**.



Connections on the back of the set (see also page 5).

Replace the cover over the connections.

### Receiving coded stations

When using a CA module and a Smart-Card to receive coded stations, please observe the handling of the CA module (see page 42).

# Initial installation

## Turning the set on/off

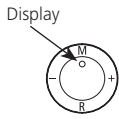
### Switching the TV set to standby mode



Activate the mains switch on the bottom left of the set.  
The display in the control panel on the front of the set will be illuminated red, the set is now in standby mode.

### Switching the TV on/off on the control unit

Press the on/off button in the middle for about 2 seconds to switch the TV set on/off.



Meaning of the display colour:

- Red:** Standby mode
- Green:** TV set is switched on
- Orange:** Radio mode, TV set receives EPG data or timer recording active

### Switching the set on with the remote control



Press the **on/off button**



or  
**numeric buttons**



or  
**TV button**



or  
**OK button** – station list is called



or  
**ASSIST button** – Assist+ menu is called.

### Switching the set off with the remote control



Press the **on/off button**.

► Before switching off the set with the mains switch, we recommend you to switch it to standby mode.

### Switch on in Radio mode



Press **R** on the TV control unit.



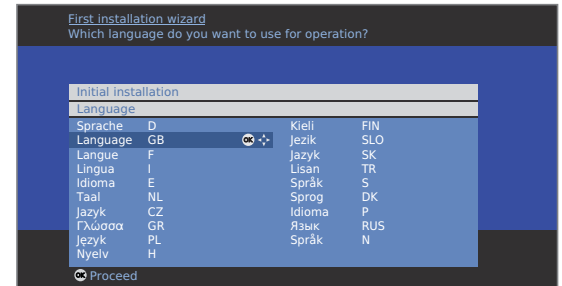
Or:  
Press the **RADIO button** on the remote control (radio mode, see page 38).

## First installation wizard

### Initial installation after switching on for the first time

This wizard starts automatically after the set is switched on for the first time, however it can also be called later manually in the TV index, see **Repeat initial installation** on page 17.

► If at least one station is locked the access code must be entered before repeating initial installation (see Parental lock on page 44).



The first step with the wizard starts when selecting the language for the user prompts. From this point on follow the instructions on your TV set.

### Brief explanation of button functions:



Press the ring (up, down, left, right) to move the cursor and to select settings.



By pressing the **OK button** a setting is confirmed and you will go to the next step.



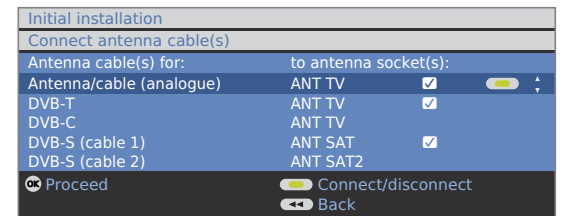
With the **yellow button** you can select or remove the individual items (see the example below).  
When an element is selected, it is marked by a checkmark .



Use this button to go back one step.



Exit the wizard with the **END button** (if available).



An example of multiple selection using the **yellow button**.

continued on next page →

# Initial installation

## Explanations of the setting possibilities:

Energy efficiency	<p>Decide how energy efficiently you want to operate your TV set. The value for the contrast (and thus the brightness of the background lighting) is adapted and the automatic dimmer activated or deactivated (see page 24) depending on the presetting.</p> <p><b>Eco standard:</b> The emphasis for home use is on low energy consumption. The automatic dimmer is activated.</p> <p><b>Premium mode:</b> This mode optimises the settings to a brighter environment at a higher energy consumption. The automatic dimmer is activated.</p> <p><b>Shop mode:</b> The picture settings are aligned to operation in the presentation room. The automatic dimmer is deactivated. If the ambient brightness diminishes, the energy consumption is not reduced.</p> <p>The presetting can be changed later in the <b>TV menu</b> under <b>Picture</b> → <b>Picture adjustment</b> → <b>Presettings</b> (see page 24) or under <b>Settings</b> → <b>Energy efficiency</b>.</p>
Location of TV set	<p>Select the country for country-specific pre-settings. If UK or IRL is selected for the location of TV set, it is possible to activate MHEG-5 (UK Freeview) for the TV set. If MHEG-5 was activated, DVB-C and DVB-S can not be used anymore. Only terrestrial/cable and DVB-T stations are available.</p> <p><b>Caution:</b> Common Interface Plus technology will <b>never work</b> again after activating MHEG-5.</p> <p>A dialogue appears, where you can confirm to set the operating software to the selected location. If <b>Yes</b> is selected and confirmed with <b>OK</b>, the TV set turns off and on again automatically. First installation starts again after activating the operation software.</p>
Antenna selection	<p><b>Antenna/cable (analogue):</b> analogue stations via cable/antenna</p> <p><b>DVB-T:</b> digital terrestrial stations</p> <p><b>DVB-C:</b> digital stations via cable</p> <p><b>DVB-S (cable 1):</b> digital stations via satellite</p> <p><b>DVB-S (cable 2):</b> digital stations via satellite</p>
Subtitle and audio languages (DVB)	<p>You can preset the desired languages and reserve languages for subtitles and audio for DVB programmes here (see page 45).</p>
Logical Channel Number	<p>In various countries, digital stations (DVB-T, DVB-C) are transmitted with a preset channel number per station, known as "Logical Channel Numbers" – "LCN". In this case the preset channel numbers are adopted as station memory locations and the stations of the preferred signal source sorted according to LCN. There may be gaps in the numbering of the station list depending on the LCN.</p>
Logical Channel Number (continuation)	<p>For TV sets with MHEG-5 software the stations are tied to "Logical Channel Numbers" – "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001.</p>
Encrypted stations	<p>You can state whether coded stations are to be searched for in the search/update. Select <b>yes</b> to save all found scrambled stations. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Handling of the CA module is described on page 42. If a CA module with a SmartCard is already plugged in for the station search, all the stations which this module can descramble are also saved when <b>no</b> is preset.</p>
DVB-T: Antenna	<p>If you are using an active antenna, then select <b>yes (5V)</b> for the antenna power supply.</p>
DVB-C: Settings	<p>The conventional settings will be derived from the selection of set location. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network. In the case of small cable networks fed directly from the satellite, the rate of 6900 might have to be replaced by 6111. Information is available from your cable network provider. If you want to run the station search independently of the channel grid, select <b>frequency search</b> for the search method.</p>
DVB-S: Satellite system	<p>State how (single satellite or type of satellite system) you receive which satellite(s). Ask your dealer if in doubt.</p>
High band	<p>Specify here whether the high band of the selected satellite is to be searched in addition to the low band.</p>
LNC frequencies Low Band / High Band	<p>Normally, you do not need to change the values for high and low band, unless the LNC (LNB) of your satellite system uses a different oscillator frequency (important for the frequency display). After you have made these settings, you should receive the picture and sound of the selected satellites (only with Astra1 and HOTBIRD).</p>
Search method	<p>If you want to run the station search independently of the channel grid, select <b>frequency search</b> for the search method.</p>
Symbol rates	<p>The symbol rates are specified by the satellite provider and do not normally need to be changed.</p>
Favoured signal source	<p>Select the signal source from a list, the station of which is to be at the top of your station list (starting with station slot 1). Recordings with automatic time control (see page 63) are only possible for the respective first DVB signal source.</p>

continued on next page →

# Initial installation

**Start search** Start the automatic station search with **OK**.  
The set now searches for TV and DVB radio stations.  
The stations found in the automatic search are divided into the appropriate station blocks depending on the previously selected antenna cables (signal sources). Subsequently the stations can only be re-sorted within these blocks. At the beginning of the station list you will find the block with the stations of the preferred signal source.  
Any mixed sorting of stations from different signal sources is only possible with the favourites list.

**Age-related lock** You can specify an age limit for your TV set here. DVB broadcasts which have an appropriate age identification are locked and can only be watched after entering the access code (see page 44).

**Connecting additional devices** Then the connection and sound component wizard starts which helps you to log in, set and connect video recorders, decoders, a loudspeaker system or a HiFi/AV amplifier to your TV set. A DVD recorder is already logged in ex factory.  
You can start the connection wizard and the sound components wizard manually later and add new devices. Further information is available from page 48 (Connection wizard) and page 56 (Sound components wizard).

**Digital Link Plus** If you have registered and connected a recorder in the connection wizard, the Digital Link Plus transmission begins at the end of the sound components wizard. If a Digital Link Plus capable recorder is connected, the station list of the analogue stations is transmitted to the external recorder.  
You can also call Digital Link Plus under **TV menu** → **Connections** → **Digital Link Plus**.

## Explanations of the DVB-T antenna:

- Room antenna** With good reception conditions a room antenna can be used for DVB-T (socket **ANT2**).
- Active antenna** Under less favourable reception conditions, it is advisable to use an active antenna which has to be set accordingly in the initial installation or in the **TV menu** → **Connections** → **Antenna DVB** → **Antenna DVB-T** (see DVB-T antenna on page 14).
- Directional antenna** If the location is outside of the normal transmission range then a directional antenna can be used to improve reception quality.

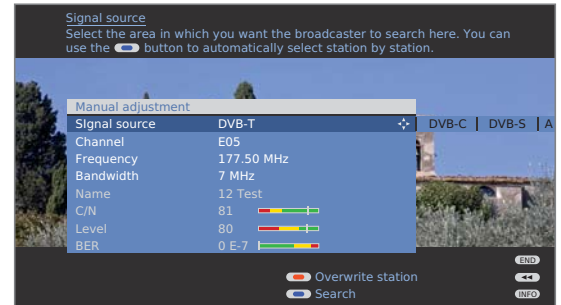
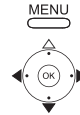
## Positioning/aligning DVB-T antenna

If you are receiving one or more DVB-T stations with picture and sound interference then you should change the installation location and alignment of the antenna. Ask your dealer to tell you which channels are used to broadcast the DVB-T stations in your region.

- ➡ In normal TV mode, without other displays. A DVB-T station is received and selected.

Call **TV menu**.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,  
▼ go to the menu line below.
- ◀ ▶ Select **Manual adjustment**,  
**OK** call manual adjustment.



The signal source is already on DVB-T due to the station preselection.

Position and align the antenna in such a manner that maximum values for **C/N** and **Level** are obtained.

⏪ ⏩ **Blue button:** Start search.

Search for DVB-T stations one after another and compare values for **C/N** and **Level**.  
Then position/align the antenna to the weakest station so that maximum values for **C/N** and **Level** are obtained.

Thereafter perform an automatic search for all DVB-T stations, see page 28.

## Explanation of the setting possibilities:

- Bandwidth** Depending on the selected channel and country the associated bandwidth will be set automatically.



# Operating convenience

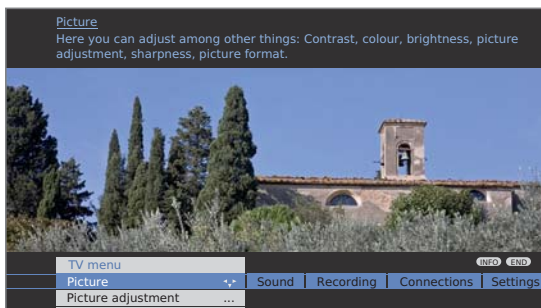
## General information on menu operation

Menus for the individual operating modes (TV, Radio, PIP, EPG, Teletext, PhotoViewer, MusicBox and DR archive) are called with the **MENU button**. Other menus can be opened with other buttons on the remote control. The menus are displayed at the bottom of the screen. At the top you get additional information about the selected menu item (see info display on the right).

⇒ In normal TV mode, without other displays.



Call **TV menu**.



### Example: Selecting and executing functions



- ◀ ▶ Select **Picture**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Brightness**,
  - ▼ go to the menu line below.
- ◀ ▶ Set **Brightness**.
  - ▲ Return to the **Brightness** menu line to make other picture settings.
- ◀ ▶ Select **more ...**,  
**OK** call **more ...** functions.
- ◀ ▶ Select **Auto format**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **on / off**.



Conclude the settings.

### Inputs with the numeric buttons



Letters have to be entered for specific functions. Like using a mobile phone keypad (1 to 9), press a numeric button until the desired character appears.

The available letters are printed on the individual numeric buttons.

## The info display

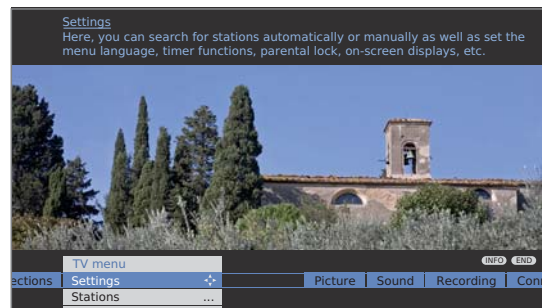
The info display shows a content-based info text for each menu item at the top edge of the screen to aid you in making the settings. In conjunction with the index it makes a convenient control system.

⇒ A menu is displayed.



The factory setting is that the info display is shown automatically for each menu item. In this case you can temporarily hide the info texts with the **INFO button**.

The automatic info display can be hidden via a menu setting. Then it can be displayed temporarily by pressing the **INFO button**.



An **INFO** icon at the bottom right above the menu bar also tells you that an info text is available.



If an info text over several pages is available the number of available pages and **P+P- Page ↑↓** is displayed in the Info window. You can scroll through the individual info pages with **P+** and **P-**.

### Permanently display or hide the automatic info display

Once you have become familiar with how to operate the TV set, you can switch off the automatic info display.

⇒ In normal TV mode, without other displays.



Call **TV menu**.

- ◀ ▶ Select **Settings**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **On-screen displays**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Automatic info**,
  - ▼ go to the menu line below: **yes / no**.



# Operating convenience

## The index in the TV set

You can start all wizards and many operating functions directly from this point. The complete function scope of the TV set can thus be easily understood.

Alphabetic sorting is preceded by the items **Language**, **Energy efficiency**, **Integrated features** and **Repeat initial installation**.

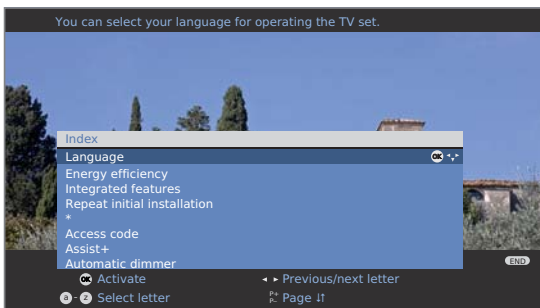
### Call index

- ➡ In normal TV mode, without other displays.
- ➡ If MHEG-5 is active, Index is available via Assist+ menu only (see right column).



Call **Index**.

You will see an info text for the highlighted keyword in the info display.



If an OK symbol appears in the marked line, this function can be called directly with **OK**.

### Selecting a keyword



Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 16).

or go with:



- ◀ ▶ to the preceding / next letters,
- ▼ ▲ from line to line,



**P+ / P-** scroll backwards or forwards in whole pages.

Example: You want to have the TV set switch off automatically at a specific time:  
Select the keyword **Switch off** → **Automatic**, with **OK** you will go to the setting.

## The Assist+ menu

The most important additional functions of the TV set can be called directly with the Assist+ menu.

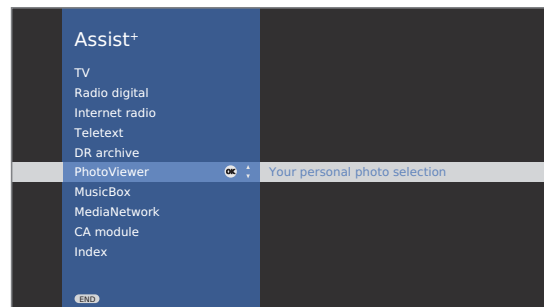
### Open Assist+

ASSIST



Call **Assist+** menu.

- ▲ ▼ Select additional function,
- OK** calls the function.

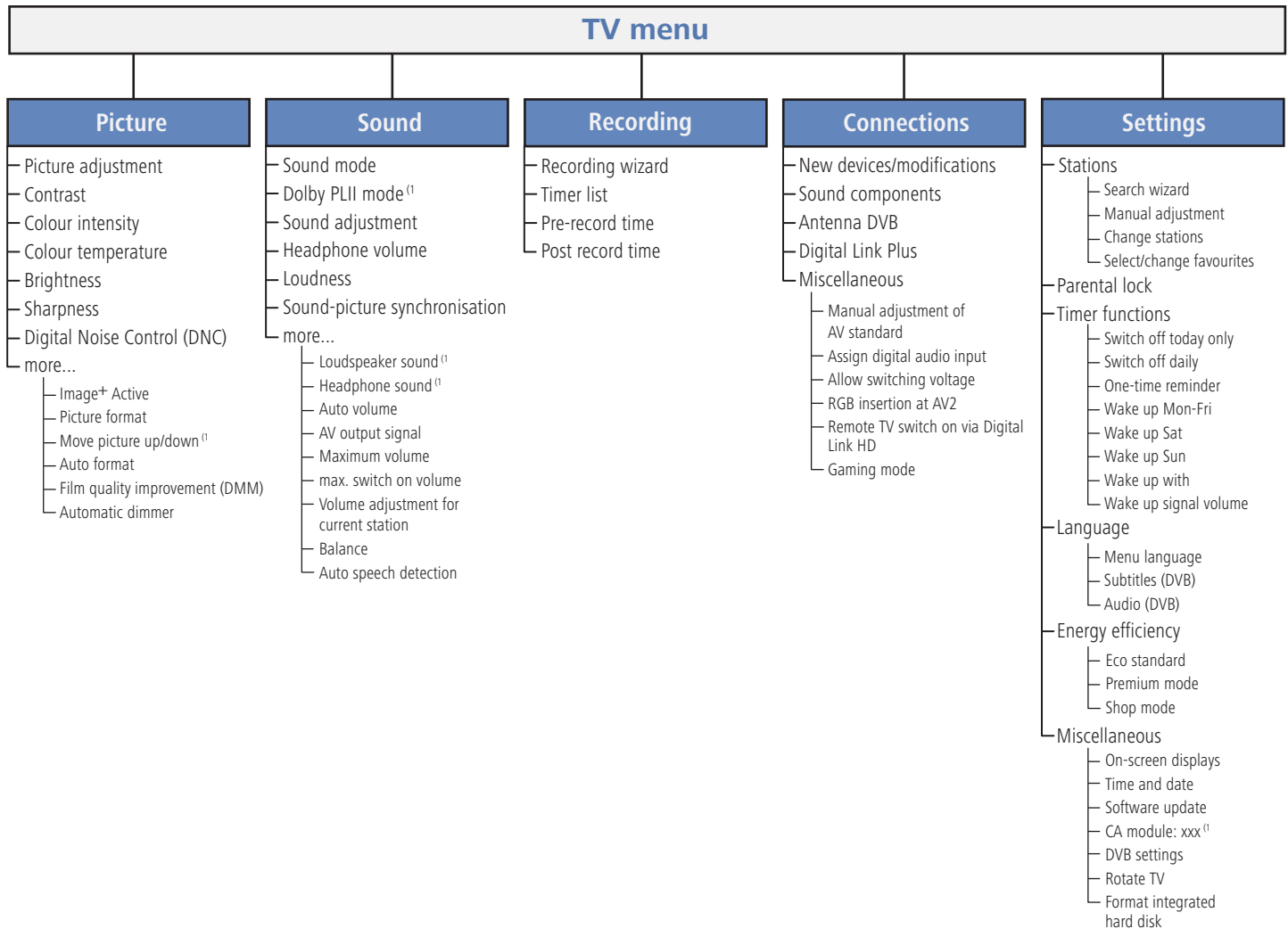


### Description of the individual functions:

- TV: See page 20 onwards.
- Radio digital: See page 38.
- Internet radio: See page 94 onwards.
- Teletext: See page 36 onwards.
- DR archive: See page 73 onwards.
- PhotoViewer: See page 66 onwards.
- MusicBox: See page 68 onwards.
- MediaNetwork: See page 94 onwards.
- CA module: Menu item only appears if a CA module is plugged (see page 42) and a digital station is selected.
- Index: See left-hand column.

# Operating convenience

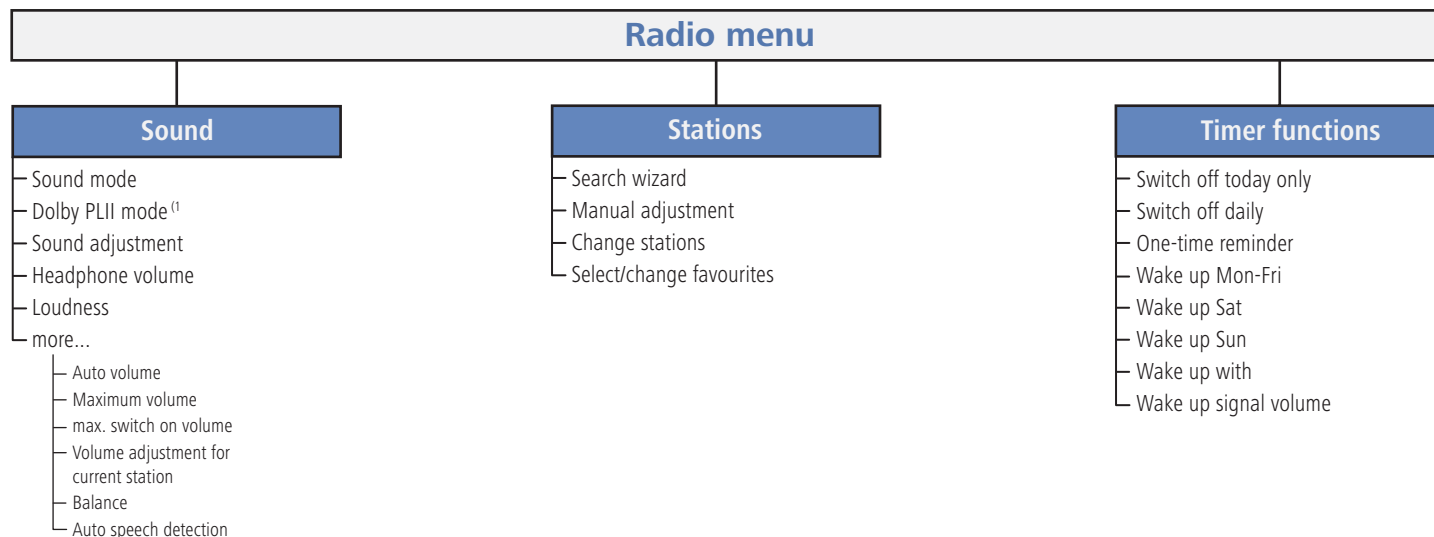
## TV menu – Overview diagram



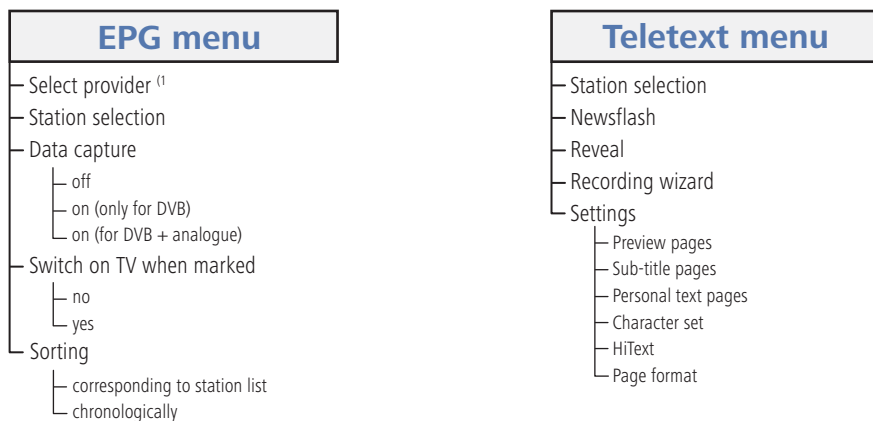
<sup>(1)</sup> Menu items appear, depending on the signal source currently selected (DVB or analogue) and/or at definite presettings in the relevant menus. For individual details, see the corresponding chapter of the operating instructions.

# Operating convenience

## Radio menu – Overview diagram



## Other menus – Overview diagram



# Daily operation

## Select station

### With the keys P+ and P- on the remote control



**P+ / P-** Station up/down.

The station display with sound identification is displayed briefly.

- ➔ If favourites are selected, the station is switched over in the favourites list with **P+ / P-** (see page 21).
- ➔ The symbols for the sound identification are described on page 27.
- ➔ If there are additional languages or DVB subtitles for DVB stations, then language and subtitle selection is shown below the station display. See also page 27: Additional selection possibilities for DVB stations.

### With the numeric keys of the remote control



#### 1-digit stations

Keep the **numeric button** pressed for one second, the station changes immediately.

or:

Press the **numeric button** briefly, the station changes after 2 seconds (changes immediately in case up to 9 stations are stored).

#### 2-digit and 3-digit stations

Press first (and second) **numeric button** briefly.

Keep the last **numeric button** pressed for one second, the station changes immediately.

or:

Press all the **numeric buttons** briefly, the station changes after 2 seconds (changes immediately in case of up to 99 or 999 stored stations).

#### 4-digit stations

Press all four **numeric buttons**, the station changes immediately.

- ➔ If favourites are selected, the station in the favourites list is switched to with the numeric buttons (see page 21). Maximum two-digit station numbers are possible.
- ➔ If you select an unoccupied station slot, the next available station is switched to.

### Call last viewed station (for TV sets with MHEG-5 software)



- ▲ ▼ You can switch back and forth quickly between two stations using this buttons.

### With the station list



Sorting numerically

- ➔ In normal TV operation, without further displays, no favourites selected:

#### OK Call Station list.



**P+ / P-** Scroll in the pages of the station list.



◀ ▶ Jump to the next station block.



▲ ▼ ◀ ▶ Mark stations.



or:

Enter the number of the station with the **numeric buttons**. The marked station is shown as a small picture.

**OK** The marked station is called.



**Blue button:** Changes the sorting between **numerically** and **alphabetically**.

Sorting alphabetically



Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 16).

The first station for the specified letters is marked.

▲ ▼ ◀ ▶ Mark stations.

**OK** The marked station is called.



# Daily operation

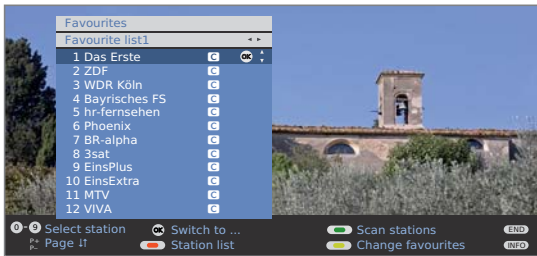
## With the favourites lists

You can save and call your favourite stations in 6 favourites lists (e.g. for multiple users). Each favourites list can contain up to 99 stations. After initial installation, 10 stations from the station list are already stored in the first list. Change the favourites list to suit your requirements (see **Put together / change favourites lists** on page 31).

 In normal TV mode, without other displays:

**OK** calls the station list.

 **Red button:** Calls the favourites list.



Select station directly with **numeric buttons**. Or:



▲ ▼ Mark stations.


**P+ / P-** Scroll in the pages of the favourites list.

◀ ▶ Select other favourites list.

**OK** The marked station is called.

► Other favourites lists can only be selected if these contain stations.

 **Red button:** Back to the station list.

 **Green button:** Scan all stations of the currently selected favourites list.







 **Yellow button:** Change the Favourites lists, see page 31.

## Explanation of the favourites lists:

The selection made with the red button (favourites list) is retained until you switch back to the station list with the red button.

If favourites are selected, the name of the favourites list appears in the status display after the station name after changing stations.

## Explanation of the icons following station names:

-  Digital DVB-T station (terrestrial via antenna)
-  Digital DVB-C station (via cable)
-  Digital DVB-S station (via satellite)
-  Coded station
-  CI+ coded station
-  Locked station (see Parental lock on page 44)

## Select video source

► Please ensure that the appropriate devices have also been registered with the connection wizard (see page 48).

### With the AV selection



Call **AV selection**.



▲ ▼ Select desired device or connection,

**OK** switch over.

A signal from the selected video source should now be visible.

### With the station list

► In normal TV mode, without other displays:

**OK** Call the station list.

If the favourites list is displayed, switch to the station list first.

In numerical sorting the connections or devices are always at the beginning of the list.

In alphabetic sorting, the connections or devices are sorted in alphabetically.



▲ ▼ ◀ ▶ Select connection/device.

**OK** Switch over.


# Daily operation

## Adjusting the sound

### Switching sound off/on

-  Sound off;
-  Sound on: Press button again or set volume **V+**.

### Setting the volume

-  **V+ / V-** Volume louder / quieter.
- The volume bar will be shown briefly if no other menu is displayed.

### Setting the Sound mode



Call **Sound mode**.



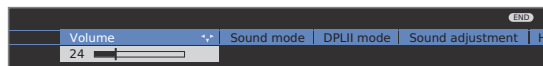
- ◀ ▶ Select the number of speakers you want to hear.

### Additional sound settings for volume adjustment and for Sound mode:

- ▣ As long as you can still see the volume bar or the selection of speakers for sound mode:



- ▲ Call additional sound settings.



- ◀ ▶ Select sound setting,
- ▼ go to the menu line below.
- ◀ ▶ Make changes.

### Sound settings via the TV menu

- ▣ In normal TV mode, without other displays.



Call **TV menu**.



- ◀ ▶ Select **Sound**,
- ▼ go to the menu line below.
- ◀ ▶ Select desired sound setting,
- ▼ go to the menu line below.
- ◀ ▶ Make changes.

### Explanations of the sound settings:

- Sound mode** Select the number of speakers you want to hear. The selection depends on the connected sound components (from page 56) and on the transmitted audio signal.
  - ▣ If the number of speakers appears in brackets, the sound of missing speakers is transmitted by the existing speakers (virtual).
- optimal** The momentarily reproduced audio signal is output with the ideal number of speakers.
  - 1** Play centre sound or mono (left/right).
  - 2** Play front sound (L/R stereo).
  - 3** Play front and centre sound.
  - 4** Play front and surround sound.
  - 5** Play front, surround and centre sound.
- Amplifier** Play via an external HiFi amplifier. Selection is only possible if an amplifier has been selected in the sound components wizard (see page 61).
- Dolby PLII mode** Here you can make Dolby Pro Logic II sound settings for movie, music, matrix and personal settings. Menu item only appears with certain sound mode settings.
  - Sound adjustment** Speech, Classical, Pop, Custom music, and Custom film sound.
- Headphone vol.** Adjust the headphones volume.
- Loudness** Proper boost of bass and treble tones at low volume.
- Sound-picture synchronisation** If the sound does not exactly match the picture, you can correct it here. If you move to the left in the bar you delay the sound in relation to the picture. If you move to the right you accelerate it in relation to the picture. The sound is adapted in time steps of 10ms each. The Sound-picture synchronisation menu item only appears for DVB stations.
- more ...** Call with **OK** (see next page).

# Daily operation

## Explanations of the sound settings:

### more ...

- |                                             |                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Loudspeaker/<br>Headphone<br>sound          | Selection possibility Mono/Stereo or Sound 1 or Sound 2 for two-sound broadcasts separately for speakers and headphones. Only available for analogue stations.                                                                                                                             |
| Auto Volume                                 | Reduces volume differences, e.g. for advertisements that are too loud.                                                                                                                                                                                                                     |
| AV output<br>signal                         | Sound selection for two-sound broadcasts.                                                                                                                                                                                                                                                  |
| Maximum<br>volume                           | Determining the maximum volume that can be set.                                                                                                                                                                                                                                            |
| max. switch on<br>volume                    | Specify the volume that is set when switching on the TV set with the mains switch.<br>If the volume is higher when switching the TV set to the standby mode than specified here, then it is reduced automatically to the fixed maximum switching on volume when it is turned on again.     |
| Volume<br>adjustment for<br>current station | The volume can differ according to the individual stations. If the sound is too loud or too quiet in relation to other stations, adjust the volume. When the menu is open, you can select the stations one after another with <b>P+ / P-</b> and adjust every single station conveniently. |
| Balance                                     | Set stereo balance so that the volume impression is identical on the left and right.                                                                                                                                                                                                       |
| Auto speech<br>detection                    | If the automatic speech detection is activated, the sound of the current program is automatically output with optimum comprehensibility when speech is detected.                                                                                                                           |

# Daily operation

## Adjusting the picture

MENU

Call **TV menu**.



- ◀ ▶ Select **Picture**,
- ▼ go to the menu line below.



- ◀ ▶ Select the desired picture function,
- ▼ go to the menu line below.
- ◀ ▶ Make changes.

### Explanations of the picture settings:

**Picture adjustment** Switches the picture parameters between personal settings and energy efficiency presets.

**Contrast** Adjust contrast.  
The power consumption of the TV set is directly dependent on the value set here (see also page 14).

**Colour intensity** Adjust the colour.

**Colour temperature** Set warmer or colder tone for picture.

**Brightness** Adjust the brightness of the picture.

**Sharpness** Adjust the contour sharpness of the picture.

**DNC** Removes or reduces the signal noise in the picture.

**more ...** Call with **OK**.

**Image+ Active** Picture improvement on/off and demo mode for Image+ Active.

**Picture format** Set picture format (see right hand column).

**Move picture up/down** Move picture vertically (see page 25).

**Auto format** Automatic detection and setting of the picture format for Cinemascope or widescreen movies.

**DMM** Reduce jolting.

**Automatic dimmer** The TV picture adapts to the ambient brightness. The energy consumption of the set is reduced by contrast reduction in a lower ambient brightness. The contrast and energy consumption increase with a high ambient brightness.

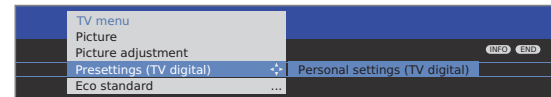
## Presettings / Personal settings for picture adjustment

MENU

Call **TV menu**.



- ◀ ▶ Select **Picture**,
- ▼ go to the menu line below.
- ◀ ▶ Select **Picture adjustment**,
- ▼ go to the menu line below.



- ◀ ▶ Select **Presettings** or **Personal settings**.
- ▼ For presets, go to the menu line below.
- ◀ ▶ Select the desired presetting for the picture.
- OK** Confirm selection.

### Explanations for Picture adjustment:

Custom adjustments of contrast, colour intensity, colour temperature, brightness, sharpness and digital noise control are saved in the **Personal settings**. Every signal source has its own personal settings.

By selecting **Presettings** the picture settings for the respective currently active signal source are set to predefined values.

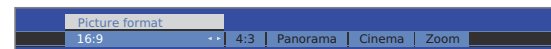
For an explanation of the signal sources see glossary: **Signal input groups**.

In the index of the TV set, all the picture and sound adjustments can be reset to the factory values for all signal sources in one step under **Reset picture/sound** or **Factory settings picture/sound**.

### Selecting the picture format



Press the **Picture format button** until the desired picture format is set or press



- ◀ ▶ to select the desired picture format.

The **Panorama** picture format can be set between proportionally correct and format filling display. Black bars are visible on the left and right of the picture in the proportionally correct display.

**Switch:** Keep the **M button** on the TV pressed, at the same time, press the **Picture format button** on the remote control briefly.

**Reset:** Press the same button combination again.



continued on next page →



# Daily operation

## Explanations of the picture formats:

➡ The setting options depend on the transmitted picture content.

16:9 Proportionally correct display of 16:9 broadcasts.

4:3 Proportionally correct display of 4:3 broadcasts.

**Panorama** Proportionally correct or format filling display (as-delivered state) of 4:3 broadcasts on the 16:9 screen. Station logo and subtitles remain visible.  
See page 24 for switching the Panorama mode.

**Cinema** Proportionally correct, format filling display of 4:3 broadcasts on 16:9 screens. Station logo and subtitles usually not visible.

**Zoom** Proportionally correct display. Maximum picture magnification.

**PALplus** Is a 4:3-compatible 16:9 picture broadcast supplied by the station which is detected automatically.

If a high resolution video signal is displayed on the TV set or fed in via the interfaces PC IN, HDMI1/DVI, HDMI2/DVI oder COMP. IN, the picture formats 16:9 PC, 16:9 TV, 16:9 Zoom, 4:3 PC, 4:3 TV and 4:3 Zoom can be set. In the PC formats, the complete picture content will be shown. In the TV formats a small part of the picture is cropped. This may be necessary to hide possible interference at the edge of the picture, which arises from the signal supplied.

## Move picture vertically



➡ In normal TV mode without other displays.

▲ ▼ Move picture up/down.

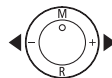


To show subtitles or news tickers which have been cut off, the picture can be moved up or down in the picture formats **Panorama**, **Cinema** and **Zoom** (not with high resolution signal) with the **arrow buttons** ▲ ▼.

➡ For TV sets with MHEG-5 software you can switch back and forth quickly between two stations using these buttons (see also on page 20).

## Operation without remote control

### Changing the station on the TV set



+ / - Station up/down.

### Switching radio on or off or switching to radio



**R** Radio on or switch between TV and Radio.

### Calling the TV menu on the set



**M** Call **Direct control on TV set** menu,



- / + select function.

➡ **Service** is intended for the customer service.

**M** or **R** Go to the menu line below,  
- / + make changes.

**M** Move up one menu line,  
- / + select other function.

# Daily operation


## Button functions


Every operating mode of the TV set (TV, Radio, Teletext, EPG, PIP, PhotoViewer, MusicBox and DR archive) has its own menu and own functions for the coloured buttons.

The function of the coloured buttons is shown at the bottom of the menus and wizards. Below, some of the function are listed which you need in TV mode for the daily handling of your TV set.

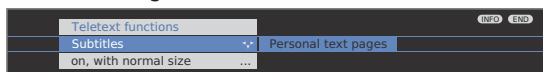
### Functions of the coloured buttons in TV mode

► The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 38 (Digital Teletext).

 **Red button:** DR archive on/off.  
For TV sets with MHEG-5 software you can open the DR archive via the menu Assist+ (see page 17).

 **Green button:** Open the **Teletext functions** menu.  
You can select **Subtitles** and your **Personal text pages** via the **Teletext functions** menu. The operation of subtitles depends on the station selected.

#### Subtitles **Subtitles analogue stations:**



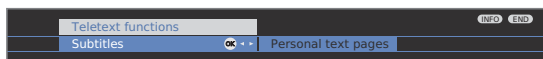
- ◀ ▶ Select **Subtitles**,
- ▼ go to the menu line below.
- ◀ ▶ Select the size of the teletext subtitles,  
**OK** show teletext subtitles  
(display only if subtitles are available).



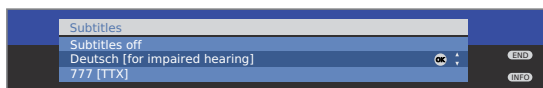
**END:** Teletext subtitles off or select **off** in menu.

#### Subtitles DVB stations:

- If the DVB station does not provide any subtitles, the menu item **Subtitles** is greyed out and cannot be accessed with **OK**.
- The DVB subtitles can also be selected via the status display (see page 27).



- ◀ ▶ Select **Subtitles**,
- OK** call.



- ▲ ▼ Select subtitle mode,  
**OK** show/hide subtitles.

### Functions of the coloured buttons in TV mode (continuation)

 **Green button:** Open the **Teletext functions** menu.




- ◀ ▶ Select **Personal text pages**,
- OK** call.


Personal text pages

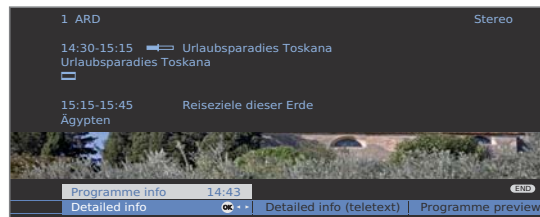


- ▲ ▼ Select text page,  
**OK** view.






► If only one text page is defined, no list will be shown and the Teletext page will be opened immediately. To define your personal text pages, see page 37.

 **Yellow button:** Go to the last viewed station.  
Use this button to quickly switch back and forth between two stations. For MHEG-5 see page 18 or on this page at the right lower column.

 **Blue button:** Show programme info.  
The programme info of the following programme is displayed additionally for DVB stations. If MHEG-5 is active, press **INFO** button twice for programme info.



Explanation of the symbols in the programme information:

-  Programme in 16:9 picture format
-  Programme in high picture definition (HDTV)
-  Programme with Dolby-Digital sound
-  Broadcast of subtitles for the deaf and hard of hearing
-  Programme with youth protection (see **Parental lock - Age-related lock** on page 44).

The symbols may also appear in combinations.

### Permanent display of time



Press twice in rapid succession:  
Time is shown/hidden permanently.



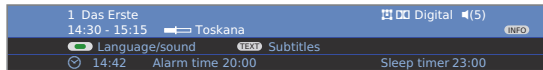
# Daily operation

## Status display



➔ In normal TV mode, without other displays.

**END:** Show / hide status display.  
For MHEG-5, **INFO button**.



You will see the number and name of the station, the title of the current broadcast (if available) and the sound identification in the top two lines. The bar (if available) indicates the progress of the current programme.

If information about the current programme is available, this can be called with the **INFO button**, the button is displayed on the right in this case.

A selection (see right hand column), the time and, if activated, the alarm time and switch-off time appear at the bottom depending on the DVB station.

## Explanations of the symbols for sound identification:

Transmitted audio signal:

- Mono** Mono audio transmission analogue
- 2-sound** Two-sound transmission (Sound1/Sound2) analogue
- Stereo** Stereo sound transmission analogue or digital (PCM)
- Digital** Dolby Digital sound transmission (DD)
- dts** dts sound transmission
- MPEG** MPEG sound transmission
- PLII** Dolby Pro Logic II sound transmission

Transmitted audio channels:

- DD / dts 1.0 / mono
- DD / dts / MPEG 2.0
- DD / dts 3.0
- DD / dts 4.0
- DD / dts 5.0
- DD / dts 2.1
- DD / dts 3.1
- DD / dts 4.1
- DD / dts 5.1

Selected listening mode:

- 1** Play centre sound or mono (left/right).
- 2** Play front sound (L/R stereo).
- 3** Play front and centre sound.
- 4** Play front and surround sound.
- 5** Play front, surround and centre sound.

➔ If the number of speakers appears in brackets, the sound of missing speakers is transmitted by the existing speakers (virtual). The Dolby Virtual speaker (VS mode) developed by Dolby is activated for the virtual sound reproduction.

## Additional selection possibilities for DVB stations

In the status display additional selection possibilities can be offered for specific programmes depending on the DVB programme provider.

- ➔ The **coloured buttons** do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 38 (Digital teletext).
- ➔ If during the status display you press one of the **coloured buttons** or the **TEXT button** then the associated selection menu will be displayed.
- ➔ The selection line is also displayed automatically when a new broadcast with different options to the previous broadcast begins or when you switch stations.

The selection menus are only available as long as the status display is shown. However you can call them again by pressing the **END button**.

**Red button:** Channel selection for multi-channel providers

**Green button:** Language/sound

The sound formats on offer and their designations depend on the programme being broadcast.

**Yellow button:** Time selection

**Blue button:** CA module selection

The CA module selection only appears when two CA modules are plugged in, which are both able to descramble the encrypted station.

In this case, you can choose which of the two CA modules should descramble the station.



**TEXT:** Subtitles

The subtitles available depend on the programme being broadcast

## Other setting options for DVB stations

You can make general presettings for DVB stations under **TV menu** → **Settings** → **Miscellaneous** → **DVB settings**.

**Subtitle mode** Here you can preset whether a subtitle is always to be displayed as soon as it is offered by the station. A special subtitle for impaired hearing can also be selected. Subtitles are not offered by all stations. Many stations only broadcast subtitles by teletext.

**Audio mode** Here you can preset whether you always want to hear a special sound for impaired sight as soon as it is offered by the station.

**DVB character set** Select the DVB character set so that the title of the broadcast of your favourite received station or the texts of your CA module are displayed correctly.

# Managing stations

## TV stations

Various options for managing stations are available via the TV menu. For example the description for TV stations. For radio stations the same applies, except that the Radio menu is called in Radio mode (see also page 38).

- Station management is not possible if a programmed timer recording is still pending.
- If at least one station is locked the access code must be entered before Search/Update (see Parental lock on page 44).

### Search/update stations – Search wizard

In the search/update with the search wizard, new stations are searched for which have not yet been stored.

- You have to repeat the initial installation (see page 13) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones. Do also use the first installation if you want to change to receiving MHEG-5 stations (attend restrictions for DVB software update, see page 40).

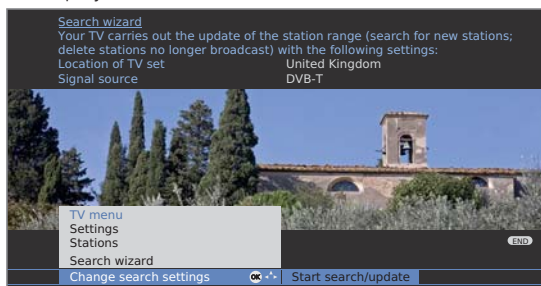
MENU



Call TV menu.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,  
▼ go to the menu line below.
- ◀ ▶ Select **Search wizard**,  
▼ go to the menu line below.

In the upper info text the current search settings will now be displayed:



If you want to change these search settings:



- ◀ ▶ Select **Change search settings**,  
**OK** wizard prompts search settings.

If you agree with these settings:

- ◀ ▶ Select **Start search/update**,  
**OK** start search.

    **Red button:** Abort current search/update.

### Explanations of some search settings:

- Set location** Select the country for country-specific defaults and station sorting.
- Signal source** Select antenna, cable, or satellite here, depending on where you want to search for new stations. At this point you can also call a configuration of the DVB-T and DVB-S antennae via the **green button** (see page 14).
- Antenna/cable:** With selection of set location the conventional TV standard/colour standard is the default. This should only be changed if stations with other standards are to be searched.
- Encrypted stations** You can state whether coded stations are to be searched for in the search/update. Select **yes** then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Ask your dealer which Smart Card you need to receive certain stations. Handling of the CA module is described on page 42.
- DVB-T** If you want to run the station search independently of the channel grid, select **frequency search** for the search method.
- DVB-C** With the selection of set location the conventional settings will be preset. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider). If you want to run the station search independently of the channel grid, select **frequency search** for the search method.
- DVB-S** If you want to run the station search independently of the channel grid, select **frequency search** for the search method. The symbol rate is specified by the satellite provider and normally does not need to be adjusted.

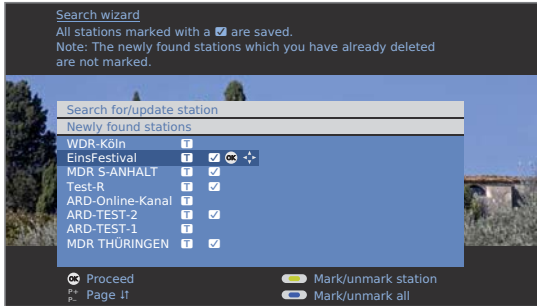
# Managing stations

## Search for/update stations – handling of new and no longer found stations

The number of new stations found is displayed after the automatic search/update has been completed.



### OK List of new stations found



▲ ▼ ◀ ▶ Select station.



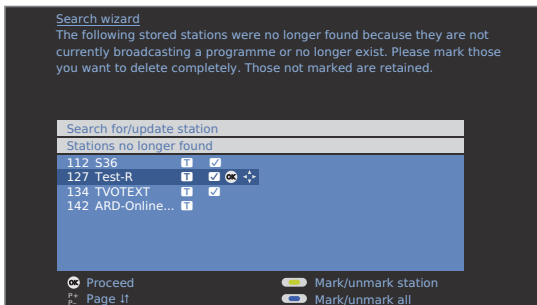
**Yellow button:** Mark / unmark station

**Blue button:** Mark / unmark all

**OK** saves the selected stations.

Afterwards, a list of the stations which are saved but which are temporarily not broadcasting or no longer exist is displayed, if available.

The number of the memory location used is displayed in front of the station. Please select the stations you really want to delete.



▲ ▼ ◀ ▶ Select station,



**Yellow button:** Mark / unmark station

**Blue button:** Mark / unmark all

**OK** deletes the selected station.



**END:** Exit the search wizard.

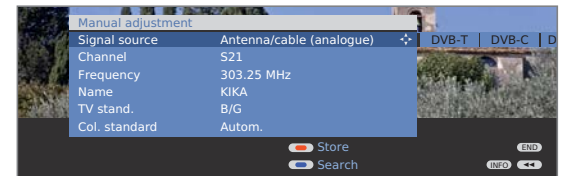
## Search/update station – manual search



Call **TV menu**.

- ◀ ▶ Select **Settings**,
- ▼ go to the menu line below.
- ◀ ▶ Select **Stations**,
- ▼ go to the menu line below.
- ◀ ▶ Select **Manual adjustment**,
- OK** call input box.

You can enter or edit the station data in the following lines:



Or:



**Blue button:** Starts **Search** and searches for next station.

**Red button:** Stores station.

- ➔ Only stations for the selected signal source can be saved which do not yet exist in the station list.
- ➔ Stations which already exist in the station list for the selected signal source are displayed with their station numbers and names on a grey background. These stations can only be overwritten with the **red button**.

## Explanations of some search settings:

Various settings are possible depending on the selected signal source. Some settings have already been explained in the initial installation (see page 13 onwards).

- Signal source Selection of range in which you want to search for the station.
- Channel Direct input of channel.
- Frequency Direct input of station frequency.
- TV stand. Input of station TV standard.  
(B/G, I, L, D/K, M, N) Ask your dealer in this regard.
- Col. standard Input of the station colour standard.  
(PAL, SECAM, NTSC-V, PAL60, Autom.)  
Ask your dealer in this regard.

# Managing stations

## Change, delete, move, rename, restore station

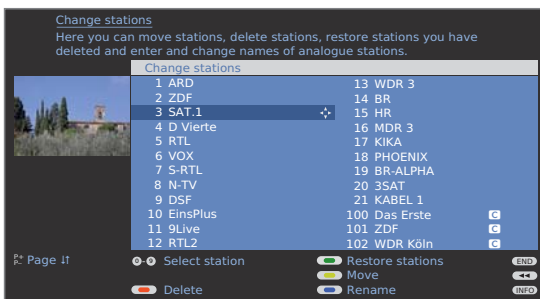
- ➡ **Change station** can also be called via the station list (page 20).
- ➡ If at least one station is locked the access code must be entered before changing stations start-up (see Parental lock on page 44).

MENU

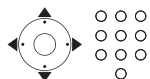


Call TV menu.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,  
▼ go to the menu line below.
- ◀ ▶ Select **Change stations**,  
**OK** call list of stations.



In this menu you can delete, move, rename or restore stations.



- ◀ ▶ ▲ ▼ or **numeric buttons**:  
Select the appropriate station.  
Scroll with **P+/P-** if necessary.

## Delete station



**Red button**: Starts **Delete** station.



- ▲ ▼ Select several stations to be deleted if necessary,  
**OK** to execute the delete.

## Move station / Change order

- ➡ Not possible for MHEG-5 stations.
- ➡ Stations can only be resorted within the signal source block.



**Yellow button**: Starts **Move** station.



- ▲ ▼ mark several stations if needed,  
**OK** selection ended,
- ▲ ▼ Select insertion position from which the selected stations are to be inserted,  
**OK** to execute the move.

## Rename station

- ➡ Not possible for MHEG-5 stations.
- ➡ DVB stations for which the station name is also broadcast cannot be renamed. In this case, the **Rename** function is hidden.

**Blue button**: Starts **Rename** station.

Under the 1st letter of the name you will see a line indicating the current input position.



- ▶ Input position one character to the right (also for blanks).
- ◀ Input position one character to the left (deletes the character).



Enter the letters one after another with the **numeric buttons** on the remote control. Like using a mobile phone keypad, press a numeric button until the desired character appears. The available letters are printed respectively on the buttons. Different special characters can be selected with button 1.

**Green button**: Switch upper/lower case letters.

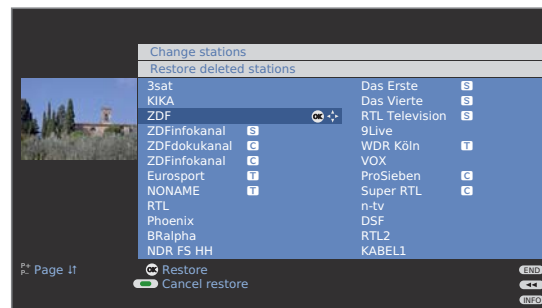


**OK** to save new name.

## Restore stations

Stations which have been deleted from the station list can be restored.

**Green button**: Starts **Restore** stations.



- ▲ ▼ ◀ ▶ Select station,  
**OK** station is restored.

The restored station is sorted in according to its signal source at the end of the respective signal block.

# Managing stations

## Put together / change favourites lists

Each favourites list can contain up to 99 stations. You can put together the favourites lists to suit your requirements (e.g. topic lists). Other persons using this TV set can create their own favourites lists.

The favourites lists also have the advantage that the stations of different signal sources can be stored in the order you wish.

⇒ **Change favourites** can also be called via the favourites list (page 21).

MENU

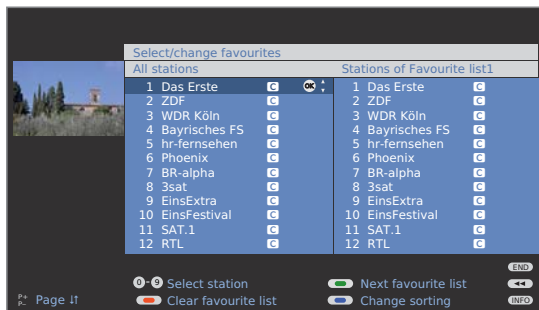


Call **TV menu**.

◀ ▶ Select **Settings**,  
▼ go to the menu line below.

◀ ▶ Select **Stations**,  
▼ go to the menu line below.

◀ ▶ Mark **Select/change favourites**,  
**OK** calls list of all stations and last active favourites list.



◀ ◀ ◀ ◀ **Green button:** Select the next favourites list.

## Rename favourites list

⇒ Favourites list (right column) must be selected.  
If not, change the list with ▶ .

◀ ◀ ◀ ◀ **Blue button:** Starts **Rename favourites list**.



**Numeric buttons:** Enter new name (same procedure as for rename station, see page 30).



**OK** to save new name.

## Add station to favourites list

⇒ All stations (left column) must be selected.  
If not, change the list with ◀ .



**P+/P-** Scroll in the pages of the station list if necessary.



▲ ▼ Mark station or select station with the **numeric buttons** (for alphabetical station sorting enter the initial letter) which is to be transferred as a favourite to the favourites list.



**OK** transfers the station to the favourites list.  
The new station is inserted at the end of the favourites list. Proceed in the same manner with additional stations.

## Delete station from favourites list

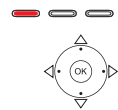
⇒ Favourites list (right column) must be selected.  
If not, change the list with ▶ .



▲ ▼ Mark station to be deleted.

**OK** Removes the marked station from the favourites list.

OR:



**Red button:** Starts **Clear favourite list**.

**OK** confirms clear favourites list.

## Move / change order of stations in the favourites list

⇒ Favourites list (right column) must be selected.  
If not, change the list with ▶ .



▲ ▼ Mark station to be moved.



**Yellow button:** Starts **Move station**.



▲ ▼ Select insertion position at which the marked station is to be inserted.

The insertion position can also be selected with the numeric buttons.



**OK** to execute the move.



# Picture in Picture

## Picture in Picture (PIP)

The concurrent display of two different images is referred to as Picture in Picture.

- ➡ The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 38 (Digital Teletext).
- ➡ A concurrent representation of two HDTV signals is not possible.
- ➡ A concurrent representation of two coded stations is not possible.
- ➡ Picture change and station selection is restricted during recording.

### Your TV set distinguishes between two PIP displays:

**Split screen** In this case the screen is divided in the middle and the additional PIP image is shown on the right side of the screen. Both images are compressed horizontally and each gets half of the screen.

**Small PIP** In this case a small PIP image is inserted in the TV picture.

### The PIP operation distinguishes between two functionalities:

**Standard PIP** Stations freely selectable and changeable for PIP and TV picture (coloured buttons have PIP-specific meaning, see below).

**iPIP** The TV picture is moved to the PIP picture when you press the PIP button. The station of the TV picture is now freely selectable. When you press the PIP button again, the PIP picture returns to the TV picture and the PIP window closes.

### Start and end Picture in Picture mode



Show/hide PIP.

In the Standard PIP function a green frame indicates that the station selection acts on the PIP picture. A white frame means that the operation refers to the main picture. If the frame is blue, the station scan is active in the PIP picture. If the iPIP function is activated, this is indicated by an orange frame.

- ➡ For TV sets with MHEG-5 Software, you switch from the green bar/frame to the white by using the **PIP** key. The next time you press the **PIP** key, PIP is switched off.

### Standard PIP operation:

#### PIP as freeze picture

- ➡ The frame is green, if not, press the **green button**.

    **Red button:** Freeze picture in PIP on / off.

### Swap contents of PIP and main picture

- ➡ The frame is green, if not, press the **green button**.

   **Yellow button:** Swaps contents of TV picture and PIP picture.

### Select the PIP picture

- ➡ The frame is green, if not, press the **green button**.

Select the station as usual.



### Select the station for the main picture




- ➡ The frame is white, if not, press the **green button**.

Select the station as usual.



### Scan station in the PIP

- ➡ The frame is green, if not, press the **green button**.

   **Blue button:** Start **Scan stations**. The frame turns blue, the stations now change automatically.

   **Blue button:** Stop **Scan stations**. The frame is green again.



# Picture in Picture

## Configure Picture in Picture (PIP) mode

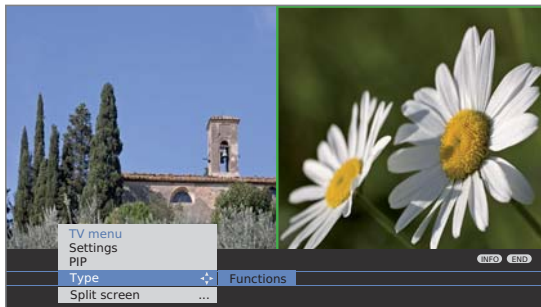
In the PIP menu you can set the PIP type (Split Screen or Small PIP), the PIP function (Standard PIP or iPIP) and the position of the small picture.

### Start PIP menu

- ➡ PIP mode started, if not, press **PIP button**.
- ➡ The frame is green, if not, press the **green button**.

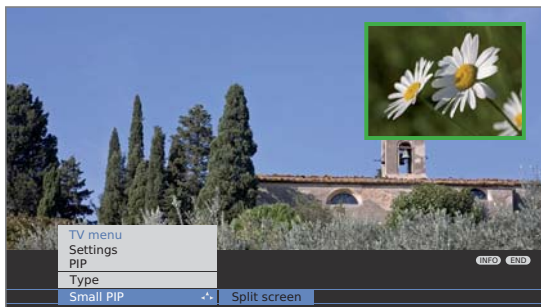
MENU

Call PIP menu.



### Switch to Small PIP / Split screen

- ➡ PIP menu open.



- ◀ ▶ Select **Type**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Small PIP** or **Split screen**.

### Change position of the PIP small picture

- ➡ Other than the status line, which may possibly be displayed, no other display is shown on the screen:

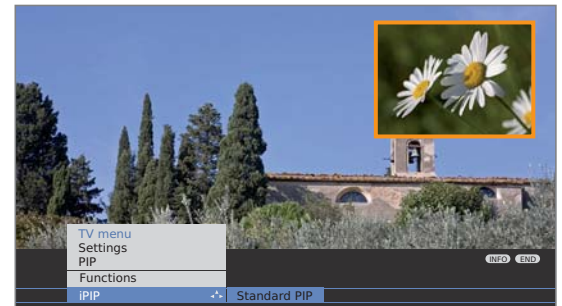


- ▲ ▼ ◀ ▶ Move the PIP into a corner of the screen.

The position of the small picture can also be selected under **Position** in the PIP menu.

### Switch to iPIP / Standard PIP function

- ➡ PIP menu open.



- ◀ ▶ Select **Functions**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **iPIP** or **Standard PIP**.
  - In iPIP the frame around the PIP picture is orange.

### iPIP operation:



When the iPIP function is set, the currently displayed picture becomes the PIP picture on pressing the **PIP button**. You can select other stations for the TV picture and still keep an eye on the PIP picture. You can temporarily "ban" commercials or programme sections to the PIP picture in this way.



The PIP picture becomes the TV picture again (PIP off).

# Electronic Programme Guide

## Electronic Programme Guide – EPG

EPG stands for Electronic Programme Guide and provides you with on-screen programme details. With the system, as with a printed programme guide, you can learn about the current programme. In addition programmes can be sorted according to certain topics, memorised, and also recordings can be programmed.

### Starting and ending EPG



Switch EPG on / off.

- ➔ A wizard will guide you through the necessary presettings the first time you start the EPG. If you have analogue reception, you enter the data capture for analogue stations after that (see page 35).
- ➔ For TV sets with MHEG-5 software, EPG is only possible for DVB-T stations.



The display of the programme guide is divided into two branches. The programme list (bottom) is influenced by certain specifications (top).

⇐ ⇐ ⇐ ⇐ **Blue button:** Switches between the upper default lines **Date, ..., Topics** and the lower programme list.

### Switching and memorizing with the programme list

- ➔ In the programme list first all currently running programmes are listed.
- ➔ You are in the lower programme list, if not, press the **blue button**.



- ▼ ▲ Select station.
- OK** View / Memorise.

**View** The programme is in progress. The TV set switches to the marked programme.

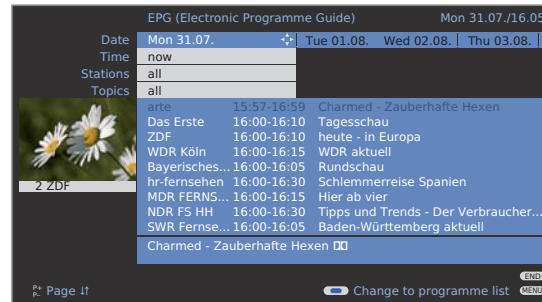
**Memorise** The programme has not started yet and is memorised. A  appears in front of the programme. The TV will ask at the beginning of a program if it should change the channel or switch on from the stand-by mode if the corresponding option of the EPG menu is activated (see page 35).

- ➔ Programmes can also be noted by the timer overview (see page 64).

### Adjusting the programme list



- ➔ The selection is at the top of the specifications, if not, press the **blue button**.
- ▼ ▲ Select **Date, Time, Stations** or **Topics**.
- ◀ ▶ Select defaults within the respective line.



**Example** If you are searching for the next news, select today's date, **17:00** for example for the time, **all** for station and **News** for topics. Then you get a list of all news programmes from 17.00 h onwards in the programme list below it. The type of list of programmes in the programme list depends on the setting of the **sorting** in the EPG menu (page 35).

**Time entry** If the line **Time** is selected, then you can enter the time after which the programmes will be displayed, via the numeric buttons of the remote control. The broadcasts are sorted according to the order of the station list within the selected time window.

**Stations** If a **favourites list** has been selected, only the programmes of stations from the favourites list are displayed in the programme list. A single station can be selected with "...". The Select single station window is opened. After selection, only programmes of the selected single station are displayed.

**Hint** Before pressing the **blue button** to leave the upper selection lines, select one of the preceding lines. If you then switch back to the programme list, you can change this menu line with ◀ ▶, without having to leave the programme list. If you have marked **Time**, then you can enter the time, after which the programmes will be displayed, with the numeric buttons of the remote control.

### Paging through the programme list



**P+ / P-** Page backwards / forwards.

In the entries for **Date** and **Time**, you will see changes in time as well as in date when paging. Scrolling in the programme list is also possible when the selection is at the top of the specifications.

# Electronic Programme Guide

## Calling additional information about the programmes

- ➔ Brief information about many programmes is displayed below the programme list of the broadcasts.

TEXT

You can call detailed information with the **TEXT button** if this function is offered by the TEXT icon in the lower left. The symbol explanations are described on page 26.

## Programming a recording for a recorder

- ➔ The selection is in the lower programme list, if not, press the **blue button**.



- ▼ ▲ Mark the desired programme.

**RECORD button:** Starts recording wizard.

Change or confirm timer data if necessary (see page 63, "The direct way to record").

Then a **red dot** will be displayed in front of this programme as an identification.



**RECORD button:** Deletes the already programmed recording of the red marked programme from the timer. If the timer data have been transferred to an external recorder, then the timer must also be deleted there.

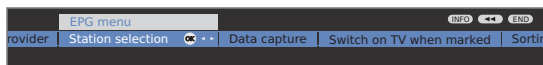
## Configuring EPG

### Start the EPG menu

- ➔ EPG mode is started, if not, press the **EPG button**.

MENU

Call the **EPG menu**.



Settings in the EPG menu:

**Select provider** (only for analogue stations), **Station selection**, **Data capture**, **Switch on TV when marked**, **Sorting**.

### Explanations of setting possibilities in the EPG menu:

Select provider In **analogue TV reception** there may be different providers who transmit the EPG data for certain station packages. You can have the **list** of providers created **automatically** with the **yellow button** in the **provider selection**. You can select the desired provider at the end of the provider search. You can create the **list** of providers **manually** with the **blue button**.

Station selection In the **station selection** you can determine for which station in the programme guide information is to be displayed. Only stations with  are shown in the EPG. With the coloured buttons you can select or remove stations or only select the stations from the favourites lists. Because of the large number of receivable DVB-S stations you should restrict the station selection. This reduces the data entry time and increases the clarity in the EPG.

Marking the stations according to reception ranges:

**E** Analogue stations via antenna/cable, for which the current provider supplies data.

**T** Digital terrestrial stations DVB-T.

**C** Digital cable stations DVB-C.

**S** Digital satellite stations DVB-S.

Data capture **on (for DVB + analogue):** data capture for DVB and analogue stations

**on (only for DVB):** data capture only for DVB stations.

**off:** no data capture.

After changes in the EPG menu or after switching off at the mains switch the EPG data must be collected first.

To do this, switch on the set and select the station from the analogue stations which you want defined as a provider and let the TV set run for about 1 hour with the selected station. Or:

Switch the TV set into standby mode. The display on the TV set glows orange after 2 minutes and the EPG data entry begins.

The data capture normally takes place at night between 2 and 5 o'clock if the TV set is in the standby mode.

Switch on TV when marked When **yes** is set, the switched off TV switches on automatically from the standby mode at the beginning of a set programme. A screen message appears when switching on. If this is not confirmed within 5 minutes with the **OK button**, the TV switches back off automatically for safety reasons.

Sorting The programmes can be sorted either according to their start times (**chronologically**) or according to stations (**corresponding to station list**).

# Teletext

## Teletext

Your TV set supports the two operating systems TOP Text and FLOF. Up to 2,000 pages are stored so that you have quick access.

### Starting and ending Teletext



Switch Teletext on / off.



### Page selection with the coloured buttons

- Red button:** Back to the previously viewed page.
- Green button:** On to next page.
- Yellow button:** To next topic.
- Blue button:** To next range of topics.

The coloured bars (for TOP) or the coloured text (for FLOF) in the second last line indicate which coloured buttons you can use to page through topic areas and topics.

### Teletext page displays

0 AV



**0 AV:** Stop self changing pages.

9 wxyz



**9:** Enlarge page (press several times).

PIP



**PIP button:** Show / hide TV picture (full screen/split screen).

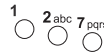


### Additional page selection possibilities



#### 1st possibility:

Call **overview page 100**.



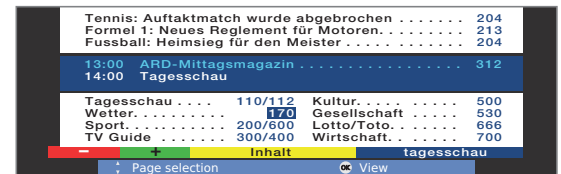
#### 2nd possibility:

Directly enter the page number.

#### 3rd possibility:

➔ The page includes 3-digit page numbers.

▼ ▲ Mark desired page number.



**OK** Call the page.

#### 4th possibility:

➔ The page consists of several sub-pages (indicated by the selection option on the last line).

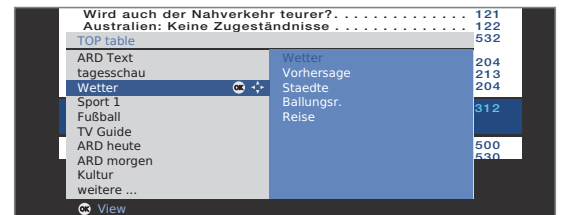


◀ ▶ Page through sub-pages.

### Call TOP table

➔ The table can only be called for stations with the TOP operating system.

**OK** Call **TOP table**.



▼ ▲ Mark topic area,  
 ◀ ▶ select topic column,  
 ▼ ▲ select topic,  
**OK** call the page.

# Teletext

## Programming timer recordings via Teletext

- Teletext is started, if not, press the **TEXT** button.



Call the programme pages of the current station.



**Green button:** Go to the appropriate page.



- Select the desired programme, **OK** to programme the recording.

Change the appropriate recording data in the following menu **Timer data** if necessary (see also page 63, "The direct way to record").

**OK** Confirm.

## Changing teletext station

You can change the teletext provider independently of the station you are watching.

- Teletext is started, if not, press the **TEXT** button.



- P+ / P-** Select next/previous station. The TV set switches through all the stations in the station list or the current **Favourites** list one after another (see page 21).

Or:



Call **Teletext menu**.



- Select **Station selection**, **OK** call station.
- Select station as in the station list (page 20), **OK** call station.

## Teletext menu

In the Teletext menu you can activate messages, reveal pages and configure the teletext with the **Settings** menu function.

### Starting the Teletext menu

- Teletext is started, if not, press the **TEXT** button.



Call the **Teletext menu**.



### Explanations of the Teletext menu functions:

- Station selection** You can select the teletext of a different station here (see left hand column).
- Newsflash** The current page is hidden when you activate **Newsflash**. A symbol at the top left indicates that the function is active. If the contents of the message are updated and it is a small newsflash, this is displayed in the TV picture. If it is a full screen page, the symbol is displayed in blue and the page can be called with the **OK** button.
- Reveal** Shows concealed information, e.g. for quiz questions or VPS pages in the programme preview pages.
- Recording wizard** A wizard for **recording** via teletext helps to programme an external recorder or the integrated Digital Recorder, see also left column.
- Settings** Other Teletext menu functions:
  - Preview pages** Input of the first teletext programme preview page if this deviates from the factory setting (page 301).
  - Sub-title pages** Input of the teletext subtitle pages for every station if this deviates from the factory setting (page 150).
  - Personal text pages** Define up to six teletext pages which can be opened later from a list in the menu **Teletext functions** → **Personal text pages** (in TV mode press **green button**, see page 26).
- Character set** Teletext character set can be switched to other languages (Russian, Greek, Polish and Turkish).
- HiText** Improved graphic representation of the Teletext. (Not offered by all stations.)
- Page format** Select side format for full screen visualisation of the Teletext (16:9 or 4:3).

## Digital teletext (MHEG-5)

In the UK or Ireland, the teletext for DVB-T stations is transmitted as per the MHEG-5 standard. It contains text, graphics, functions and links.

- ➡ Only for TV sets with MHEG-5 software.
- ➡ At the moment only available in United Kingdom and Ireland.
- ➡ Digital teletext is not available when DVB subtitles are being displayed.

The operation of these menus depends on the particular provider. Normally after a station is changed, the provider broadcasting the digital teletext makes an introductory offer for this service on the screen via menu selection. Follow these notes.

If no message appears telling you how to switch to digital teletext after switching to another station, press the **TEXT** key. If a selection for DVB subtitles is available, this item must be hidden before.

Depending on the provider's respective offer, you can use the **▲ ▼ ◀ ▶** buttons and the **OK button**, the **coloured buttons**, the **END/TEXT button** and sometimes even the **numeric buttons**.

If you want to close the digital teletext, just select a different station using the **P+/P-** buttons or follow the menu prompts on the screen.

# Digital radio

## Radio mode

The TV set can receive digital radio stations via DVB. In addition you can play the sound from an external device through the TV set via the **audio/AV inputs** of the TV set (see page 39).

- ➡ For TV sets with MHEG-5 software, the buttons may be configured differently by the provider.
- ➡ The **RADIO button** has been preset for radio operation in the factory. To change the configuration see Assist Media operating instructions.

### Radio mode on



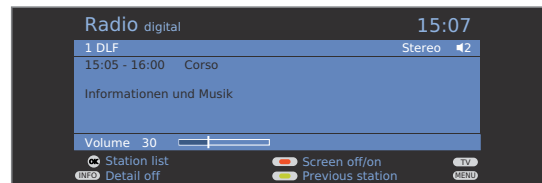
Press **RADIO button** on the remote control.

Or:



**R** on the operating ring on the TV set.

You see an information window about the currently set station.



Minimise Radio dialogue to an info line / maximise.



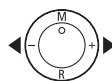
### Station switching

- ➡ The selection of the stations / favourites is the same as the procedure in TV mode (see pages 20 and 21).



Press **P+/P-** or the **numeric buttons** of the remote control.

Or:



**+ / -** on the TV set operating ring.

Or:



**OK** Call **station list / favourites**.

# Digital radio

## Setting the volume



**V+ / V-** Volume louder / quieter.

Other sound settings are the same as for the volume setting in TV mode (see page 22).

## Audio adjustment



Call **Sound adjustment**.

Other settings as for TV mode (see page 22).

## Switching the screen on/off



**Red button:** Switch off the screen.

The **LED display** on the TV set (see page 4) changes from green to orange.

Switch on the screen with the remote control:

**Red button**, **RADIO button** or **OK button** (station list is opened).

Switch on the screen on the TV set:

Press **R** on the TV set operating ring.

## Radio menu

In the Radio menu, you can set the sound, search for and store radio stations (automatically or manually), change stations and set switch off/ alarm functions.

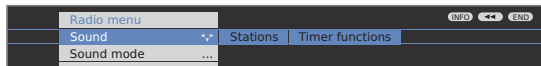
The settings are made as described in TV mode.

## Call radio menu

Radio mode switched on,  
if not, press the **RADIO button**.



Call the **Radio menu**.



## Switch off radio mode



Press **TV button** on the remote control.



Or:

**R** on the operating ring on the TV set.

## EPG – Electronic Programme Guide (radio)

For the DVB radio stations you can also use an electronic programme guide, if the station that is currently active supplies data.

### Starting and ending EPG

Radio mode switched on,  
if not, press the **RADIO button**.

Switch EPG on / off.



The EPG functions in radio mode are the same as in TV mode. Read from page 34 onwards for further information.

## Audio playback from external devices

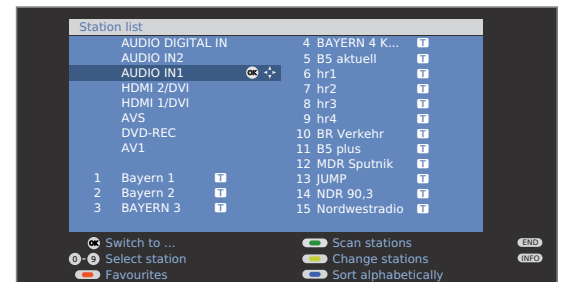
You can play the sound of external AV devices (e.g. MP3 players, DVD players) in radio mode.

### Select AV input

Radio mode switched on,  
if not, press the **RADIO button**.

**OK** Open station list.

The AV inputs are listed in front of the first radio station.



The selection of the AV inputs is the same as in TV mode (see pages 20 and 21).

Start playback on the external device after selecting the AV input.



## Software update

### TV base software and DVB software

Your TV set provides the option to update the TV basic and DVB software. Current software versions can be downloaded from the Loewe Internet site (see page 41) and installed on your set using a USB stick.

The software can also be updated by different DVB reception paths (DVB-T, DVB-C, DVB-S).

However, the prerequisite for this is that the software is provided by the appropriate DVB reception path.

This may differ depending on the TV set and the DVB programme provided.

Ask your local dealer for information whether a software update via DVB reception path is possible.

### Automatic information by new software version

In the **Change update settings** menu (see right column) you can determine via which DVB reception path (if possible) you want to receive updates.

Your TV set determines automatically overnight whether a new software version is available via the selected DVB reception path. The TV set must be left in the standby mode for this (do not switch off with the mains switch).

If a new software version is available, the TV set informs you of this in an on-screen message the next time it is switched on (see page 41 – Loading new software).

### Manual search for new software

If it is not displayed automatically that a new software is available when you switch on the set, you can also search for one manually. The search depends on the selected update source(s).

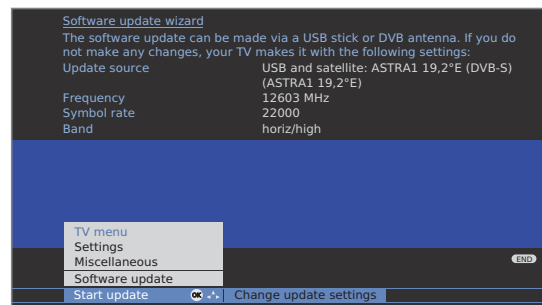
MENU



Call **TV menu**.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ go to the menu line below.
- ◀ ▶ Select **Software update**.  
**OK** Open the software update wizard.

The current update settings are displayed in the info text.



If you want to change the update settings:

◀ ▶ Select **Change update settings**,  
**OK** the wizard polls the update settings.

➡ The selection options depend on the antenna cables connected at the initial installation (see page 13).

### USB only

New software is searched for via USB.

### USB and DVB-T

New software is searched for first via USB then via DVB-T (digital terrestrial transmission).

### USB and DVB-C

New software is searched for first via USB then via DVB-C (digital cable transmission).

### USB and satellite

New software is searched for first via USB then via DVB-S (digital satellite transmission). The name of the currently selected satellite is displayed.

### Setting parameters of the different DVB update sources:

Channel	Select the channel on which the new software is provided.
Frequency	Enter the frequency of the station to be transmitted directly.
Bandwidth	Is preset automatically depending on the selected channel.
Symbol rate	Enter the symbol rate of the station to be transmitted directly.
QAM modulation	Set the suitable type of modulation.
Band	Set the transmission range for satellite reception.

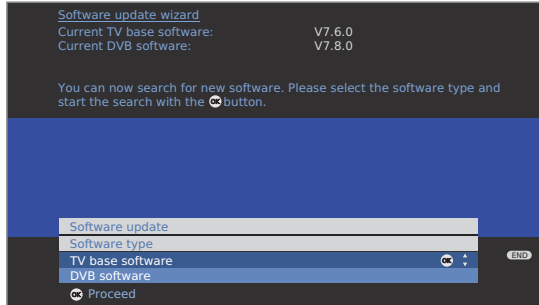




If you have adapted the update settings:

**OK** proceed.

- ◀ ▶ Select **Start update**,
- OK** start update procedure.



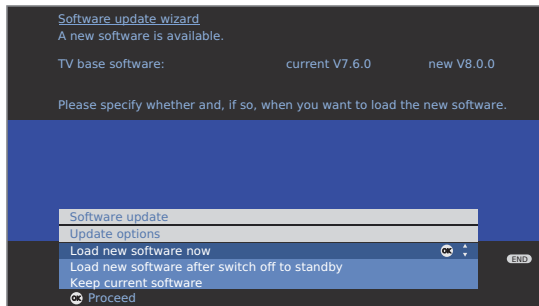
- ▲ ▼ Select software type:

**TV base software** or  
**DVB software**,

**OK** start search.

If a new software version is available after the search, the following screen message appears.

## Loading new software



- ▲ ▼ Select update option:

**Load new software now**  
**Load new software after switch off to standby**  
(update after switching off)  
**Keep current software** (no update desired).

**OK Proceed** or exit wizard.

**OK Start Software update.**

A bar informs you about the progress of the charging process. Do not switch your set off during this time!

This process can take up to 20 minutes depending on the selected update source. You will be informed at the end.

At the end of charging:

Switch the TV set off and back on with the mains switch. This is unnecessary when loading the software with the **Load new software after switch off to standby** update option.

If a new software has not been updated by a DVB station, you will be reminded of this several times when switching on the set.

- ➡ If a new TV software and a new DVB software are available in the automatic search for new software via DVB stations (see page 40), you can choose which software is to be updated.

## Software download from the Loewe homepage

You can download new software for your TV set from our homepage. To do this, register on our homepage <http://www.loewe-uk.com> (go to **Support** → **Register now**). Follow the individual steps through the registration procedure.

After successful registration and following login on the homepage you must still register your equipment (keep article number and serial number at hand - both are on the sticker on the back of the equipment). You will then see an overview of downloadable contents for your TV set, including TV software. Load the software onto a USB stick to update the files. Then carry out the updating procedure (see page 40).

## Conditional Access module (CA module)

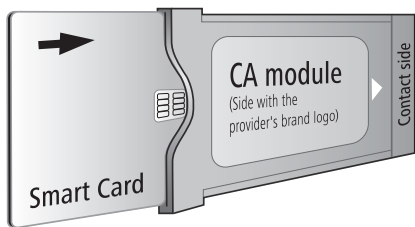
In order to receive coded digital stations, a Conditional Access module (CA module) and a Smart Card must be inserted in the CI slot of your TV set (see page 5).

The CA module and the Smart Card are not part of the TV set's scope of delivery. They are usually available from your dealer. Loewe does not provide any guarantee for the functioning of the CA module.

The TV set must first recognise and set up the CA module during initial operation. Therefore, it can take up to a minute until decoding starts during initial operation.

### Inserting the Smart Card into the CA module

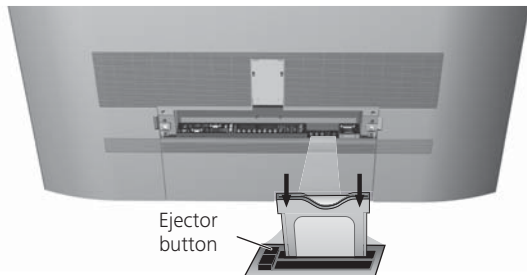
Push the Smart Card into the CA module as far as it goes so that the side with the gold coloured contact chip is facing the side of the CA module marked with the provider's logo. Note the direction of the arrow printed on the Smart Card.



### Inserting the CA module in the CI slot

⇒ Switch off the TV set's mains switch.

Remove the cover from the rear of the set.



Carefully insert the CA module in CI slot 1 or CI slot 2 with the contact side forward.

The logo on the CA-module must show away from the TV-set. Do not use force. Make sure the module is not twisted in the process. If the CA module is correctly installed, the ejector button protrudes a little further.

Replace the cover.

### Searching for encrypted stations

⇒ The search wizard must only be started if the setting option **no** has been selected during first installation in the search for encrypted stations or no CA-module was inserted.



Call **TV menu**.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,  
▼ go to the menu line below.
- ◀ ▶ Select **Search wizard**,  
▼ go to the menu line below.
- ◀ ▶ Select **Change search settings**,  
**OK** wizard guides you through the search settings.

See page 28 for a description of the search settings.

### Calling CA module information

⇒ This menu is only available for digital stations.



Call **TV menu**.

- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ go to the menu line below.
- ◀ ▶ Select **CA module: xxx**  
(xxx corresponds to the CA module provider),  
**OK** call information.

The content of this menu depends on the provider of the CA module.

### Removing the CA module

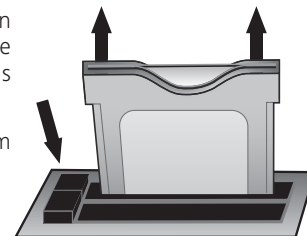
⇒ Switch off the TV set's mains switch.

Remove the cover from the rear of the set.

Press in the ejector button on the appropriate module drawer, the module is released.

Remove the module from the set.

Replace the cover.



## Common Interface Plus Standard (CI Plus)

CI Plus is an advanced development of the DVB Common Interface Standard. CI Plus slots are in principle downward compatible to the previous CI-standard, i.e. CA-modules and Smart Cards according to the past CI-standard can continue to be used in CI Plus slots, as far as the programme provider permits this.

### Software update for CI-Plus capable CA-modules

Every now and then, there will be new system software for your CA-module software. There are two software update types.

Recommended update:

Information on an available update is displayed. You can either run this or cancel the procedure. If you do not install the update, the information will reappear in regular intervals until the update has been installed.

Forced update:

Information on an available update is displayed. The module does not decode any more until the update has been successfully implemented.

## Troubleshooting

The following information can help, if problems should occur when running a CA-module:

Switch the TV set off to the standby mode. Remove the CA-module from the TV set. Switch the TV set off completely. Wait a few seconds. Reinsert the CA-module. Switch the TV set on again.

If errors continue to occur, make a note of the displayed two-digit error code (only for CI Plus capable CA-modules). Contact your technical customer service (see service addresses on page 127).

# Other settings

## Parental lock

You can select and set various security options to prevent unauthorised use of the TV set and to protect your children from unsuitable programmes.

### Defining the access code (PIN)

MENU

Call **TV menu**.



◀ ▶ Select **Settings**,  
▼ go to the menu line below.

◀ ▶ Select **Parental lock**,  
▼ go to the menu line below.

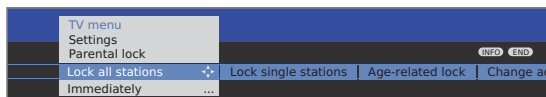


Define a four digit access code (PIN) the first time you open it. The numbers appear in plain text. Note the access code (PIN) well.



**OK** Confirm the access code (PIN).

The **Parental lock** menu is opened.



The four-digit access code (PIN) must be entered when the parental lock is opened in future. It appears encrypted (\*\*\*\*) when entering for security reasons.



### Code number

The code number cancels all entered PINs. It can be used for example if you have forgotten your PIN. You will find a note about the code number on page 121. Remove this from the manual and keep it in a safe place.

### Explanations of setting possibilities in the Parental lock menu:

- |                      |                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lock all stations    | The TV set is locked immediately the menu is exited. All programmes can then only be watched after entering the access code. The lock can be activated both <b>Immediately</b> and for a <b>Daily</b> defined period. The lock remains active until it is switched off in the menu. |
| Lock single stations | You can lock / unlock individual or all of the stations in the station list specifically. The lock remains active until it is switched off in the menu.                                                                                                                             |
| Age-related lock     | Some DVB stations also broadcast an age classification. If the age set here is below the broadcast age limit, the programme can only be watched after entering the access code.                                                                                                     |
| Change access code   | You can change your access code at any time. Enter the new access code in place of the old one.                                                                                                                                                                                     |
| Deactivate           | All set parental locks (locked stations, age-dependent locks, locked films in the DR archive) are cancelled. The current secret code is deleted. When the parental lock is reactivated all the previous parental locks are set again automatically.                                 |
| Reset                | All currently set parental locks are finally cancelled. The secret code is deleted.                                                                                                                                                                                                 |

### Protection of minors for CI Plus programmes

Youth-protected broadcasts of programme providers with CI Plus encoding possibly require you to enter the secret number (PIN) of the CA module.

We recommend selecting the secret number of the TV set according to the secret number of the CA module, since the secret number of the CA-module cannot be changed. This means that you must only remember one secret number.

# Other settings

## Timer functions

This menu offers you convenient alarm services. Programmed alarms are also active when the TV set has been switched off to standby.

If the TV set switches on from the standby mode by alarm, a screen message appears. If this is not confirmed within 5 minutes with the **OK button**, the TV switches back off automatically for safety reasons.

The TV set can also be switched off automatically at certain times. A screen warning appears one minute before automatic switch off. The automatic switch off can be interrupted by pressing any button.

### Call Timer functions

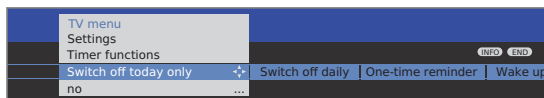


Call **TV menu**.



◀ ▶ Select **Settings**,  
▼ go to the menu line below.

◀ ▶ Select **Timer functions**,  
▼ go to the menu line below.



◀ ▶ Select the desired setting.

### Explanations of setting possibilities in the Timer functions menu:

**Switch off today only** The set switches to the standby mode automatically at the specified time. If a time is specified which has already passed on the same day, the set switches off at this time the next day.

**Switch off daily** The set regularly switches to the standby mode automatically every day at the specified time.

**One-time reminder** The set alerts you once today at the specified time. If a time was specified which has already passed on the same day, the alarm is saved for the next day.

**Wake up Mon-Fri** The set regularly alerts you from Monday to Friday at the set time.

**Wake up Sat** The set alerts you regularly every Saturday at the specified time.

**Wake up Sun** The set alerts you regularly every Sunday at the specified time.

### Explanations of setting possibilities in the Timer functions menu:

**Wake up with** Specify whether the TV set switches on in the event of an alarm from the standby mode in **TV** or **radio mode** with the respectively last active station.

**Wake up signal volume** Set the desired volume of the alarm tone. The alarm tone is emitted as a continuous tone as a guide during the setting.

## Language

Specify the language for all menus in the TV set in the language menu. The language for the DVB subtitles and the film language can be set for DVB programmes.

### Call language

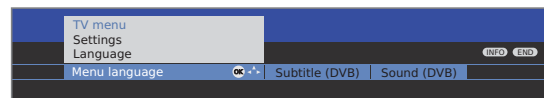


Call **TV menu**.



◀ ▶ Select **Settings**,  
▼ go to the menu line below.

◀ ▶ Select **Language**,  
▼ go to the menu line below.



◀ ▶ Select the desired setting.

### Explanations of setting possibilities in the Language menu:

**Menu language** You can change the menu language here. The menu language can be changed with the index (siehe Seite 17).

**Subtitles (DVB)** If subtitles are provided by the DVB station, you can set your desired language in advance here. If this is included in the range of languages of the station, it will be shown automatically.

You can also specify an alternative language under this menu item, in case your chosen language is not offered by the station

**Audio (DVB)** Specify your desired film language in advance here. If this is included in the range of languages of the station, it will be shown automatically.

You can also specify an alternative language under this menu item, in case your chosen language is not offered by the station.

# Other settings

## On-screen displays

You can select different settings in this menu which affect the on-screen displays.

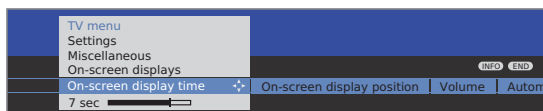
### Call On-screen displays

MENU

Call **TV menu**.



- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ go to the menu line below.
- ◀ ▶ Select **On-screen displays**,  
▼ go to the menu line below.



- ◀ ▶ Select the desired setting.

### Explanations of setting possibilities in the On-screen displays menu:

- |                            |                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On-screen display time     | Here you set the duration of the display, e.g. for the volume or the station display when changing stations. The duration can be set between 2 and 9 seconds.                             |
| On-screen display position | You can select between an upper and a lower display position so that other displays (subtitles) are not concealed.                                                                        |
| Volume                     | Here you set whether or not the change in the volume should also be displayed visually on the screen.                                                                                     |
| Automatic info             | Select <b>yes</b> here if you want to be able to see the additional help permanently in the upper part of the screen while navigating the menu. Also see page 16 for further information. |

## Time and date

If you receive a station with teletext after switching on the TV, the time and date are recorded automatically. The date may have to be entered manually for some stations.

Enter the time and date manually if you receive station without teletext.

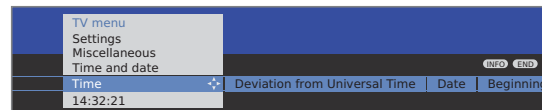
### Call Time and date

MENU

Call **TV menu**.



- ◀ ▶ Select **Settings**,  
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ go to the menu line below.
- ◀ ▶ Select **Time and date**,  
▼ go to the menu line below.



- ◀ ▶ Select the desired setting.

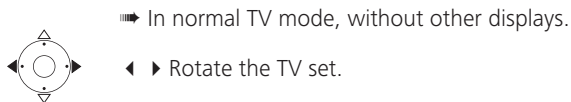
### Explanations of setting possibilities in the Time and date menu:

- |                                   |                                                                                                                                                                                                                                                          |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time                              | Enter the time (00:00 to 23:59) with the numeric buttons of the remote control.                                                                                                                                                                          |
| Deviation from Universal Time     | The current time at the Greenwich Meridian 0 is to be understood as world time. The time shift in relation to this time must be given in hours (-11 to +13) (with the buttons ◀ ▶ or the numeric buttons on the remote control). Summer time is ignored. |
| Date                              | Enter the date (day.month.year) with the numeric buttons on the remote control.                                                                                                                                                                          |
| Beginning of daylight-saving time | Enter the date on which the time is switched over to summer time if it deviates from the automatically calculated date.                                                                                                                                  |
| End of daylight-saving time       | Enter the date on which the summer time ends if it deviates from the automatically calculated date.                                                                                                                                                      |

# Operating additional equipment

## Rotating the TV set

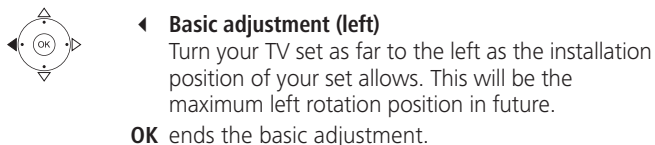
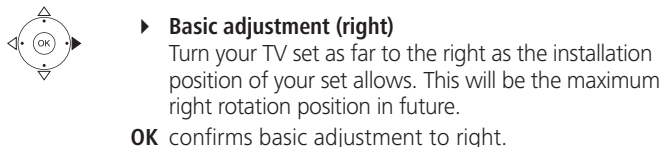
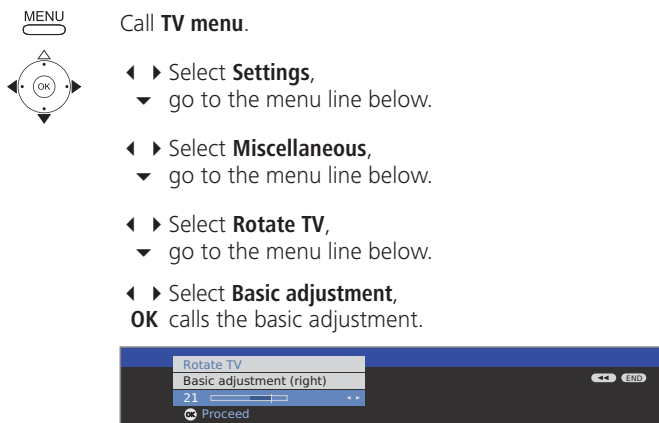
Your TV set is equipped with a Loewe base with motor drive. You can adapt the alignment of the TV set to your seating position with the remote control.



**Do not place any objects in the rotation range of the TV set that could obstruct the rotation or that could be knocked over by the rotation movement.**

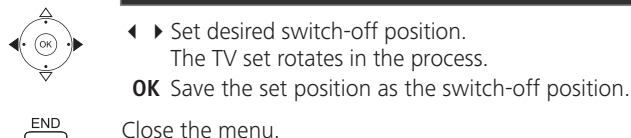
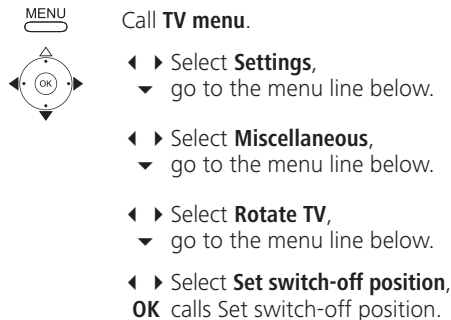
### Setting the range of rotation

You can specify the rotation range of the TV device (maximum +/- 40 degrees) by setting the maximum right and left stop position.

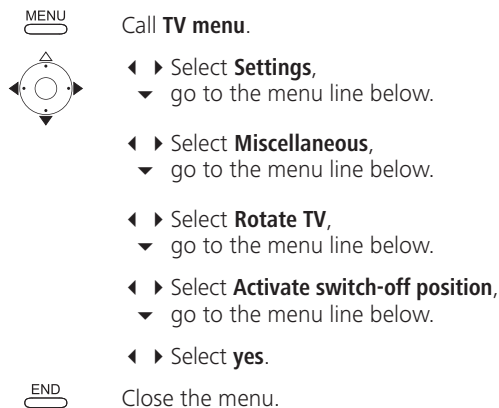


## Specifying the switch off position

This is where you specify the position that the TV will take when it is switched off. In order for the TV set to return to the determined switch-off position when switching it off, this must be activated (see below).



## Activating the switch-off position



If the TV set is switched off with the on/off key on the remote control or with the switch integrated in the display then it will turn to the defined switch-off position. When it is switched back on, it returns to the position last set.

# Operating additional equipment

## Connection wizard

The connection wizard serves to connect accessory equipment optimally to the TV set, make changes to the wiring of the devices or remove momentarily logged in equipment. The exact process of the wizard depends on the choice of equipment.

- ➡ New equipment should not be connected until it has been logged in in the Connection wizard first.
- ➡ DVD recorder at AV2 is preset at the factory.

MENU

Call **TV menu**.



- ◀ ▶ Select **Connections**,
- ▼ go to the menu line below.

- ◀ ▶ Select **New devices/modifications**,
- OK calls the wizard.

Connection wizard

Connect the satellite dishes or cable/terrestrial antennas of your AV equipment (recorder, decoder, ...) to the TV set according to the enclosed operating manual. The connection wizard assists you when you connect your equipment to the TV set via the AV sockets AV1, AV2 and AV5 or via the SD/HD-COMPONENT IN or HDMI1/2(DVI)\* socket.

Proceed

END

END

- ➡ The connection wizard can be exited at any time with the **END button**.

OK Proceed.

The connection diagram shows the currently logged in equipment.

Connection diagram

Connection wizard

Now the TV set assumes that you have connected the following equipment:



Proceed

END

OK Proceed.

Select the equipment you want to connect or remove equipment you no longer use in the AV equipment selection.



- ▲ ▼ Select equipment/connection.



**Yellow button: Connect/disconnect** equipment.

A **Camcorder / camera** is connected to the TV set additionally in the following example.

AV equipment selection

Connection wizard

Specify all new AV devices to be connected and all connection changes to the existing devices here.

New devices/modifications

AV equipment selection

DVD	DVD player	
DVD	DVD recorder	<input checked="" type="checkbox"/>
VCR	Video recorder	
SAT	Satellite receiver	
STB	SetTopBox/dBox	
Decoder	Decoder	
Camera	Camcorder/camera	<input checked="" type="checkbox"/>
AV	Other device(s) to AV1/2/5	
COMP.IN	Device to COMP.IN	
HDMI/DVI	Device to HDMI1/DVI	
HDMI/DVI	Device to HDMI2/DVI	

Proceed

Connect/disconnect

END

END



OK Proceed.

The connection diagram is displayed again. Connect the equipment to the corresponding connections of the TV set as shown in the connection diagram.

- ➡ The accessory equipment should be connected to the TV set with the power off (disconnected from the mains). See also the instructions in the operating manual of the equipment to be connected.

Connection wizard

Please connect your equipment as shown in the diagram.



Proceed

END

OK Proceed.

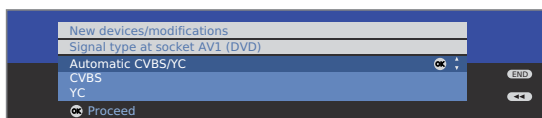


continued on the next page →



# Operating additional equipment

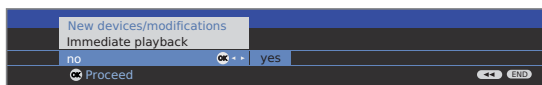
Signal type



- ▲ ▼ Select the signal types of the individual devices one after another where necessary. Normally you should leave the setting on **Automatic CVBS/YC** (e.g. for DVD player/recorder) or **Autom.-VHS/SVHS** (e.g. VCR), otherwise select the suitable signal type.

**OK Proceed.**

Immediate playback



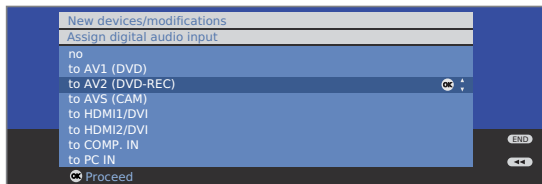
- ◀ ▶ Select **yes** or **no**.

If playback is started on a device connected to AV1 or AV2, the TV switches immediately to the appropriate AV input when **yes** is set.

When playing devices with Digital Link Plus, the appropriate AV input is always switched to regardless of the setting.

**OK Proceed.**

Assign digital audio input



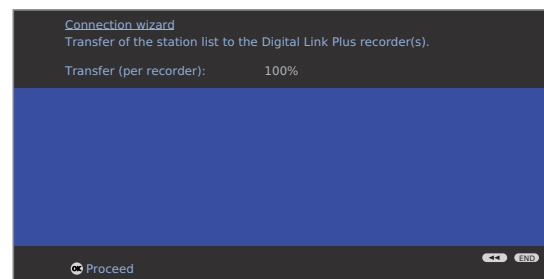
- ▲ ▼ You have to feed the digital audio signal to the TV set for the digital audio reproduction from an external device.

The digital audio input (**AUDIO DIGITAL IN**) of the TV set must be assigned to the appropriate connection of the external device.

If **no** is selected, the analogue sound is used.

**OK Proceed.**

Digital Link Plus



If you have registered a recorder into the connection wizard, the Digital Link Plus transmission starts.

If a Digital Link Plus capable recorder is connected, the station list of the analogue stations is transmitted to the external recorder.

You can also call Digital Link Plus under **TV menu → Connections → Digital Link Plus**.



**END:** Exit connection wizard.

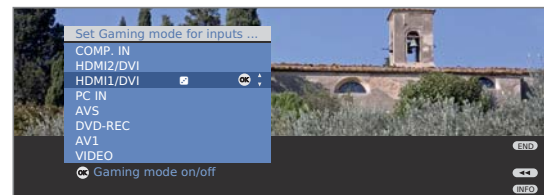
## Gaming mode


For the inputs of your TV set on which game consoles, PC applications or even Karaoke machines are operated, we recommend you to activate the **Gaming mode**. Your activities are then displayed quicker on the screen by reducing the complex picture improving techniques.



Call **TV menu**.

- ◀ ▶ Select **Connections**,  
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ go to the menu line below.
- ◀ ▶ Select **Gaming mode**,  
**OK** call.
- ▲ ▼ Select socket,  
**OK Gaming mode** for selected socket **on/off**.



You can recognise AV connections with set Gaming mode by the symbol  after the connection name.

# Operating additional equipment

## Devices to the connections AV1/AV2/AVS

Accessory equipment such as DVD players, video and DVD recorders etc. can be connected to the TV set at the Euro-AV sockets **AV1** and **AV2** (see page 5).

The AV input **AVS** (see page 5) offers the possibility of connecting a digital camera or a camcorder for example.

➡ All devices at the AV inputs must be registered in the connection wizard (see page 48 onwards).

The connection designations vary according to the logged in device. The AV selection then contains, for example, **DVD** in place of **AV1** or **CAM** in place of **AVS**.

The Euro-AV sockets can process different signal types. Which signal type your accessory device provides can be found in the operating manual of the appropriate device.

Owing to the large number of AV devices available on the market, we can only mention a few examples for the connection of accessory equipment to the AV sockets here.

The following description of the connected equipment to the connections **AV1/2/S** refers to the device types logged into the connection wizard from page 48 onwards.

If the sound of a device connected to an AV socket is to be transmitted digitally, a cinch cable must be plugged between the coaxial digital output of the accessory equipment and the **AUDIO DIGITAL IN** socket of the TV set. In addition the digital audio input must be assigned to the corresponding AV socket in the connection wizard (see page 49).

The assignment of the digital audio input may also take place outside the connection wizard. With **TV menu** → **Connections** → **Miscellaneous** → **Assign digital audio input**, the digital audio input can be assigned to the appropriate AV socket, see page 62.

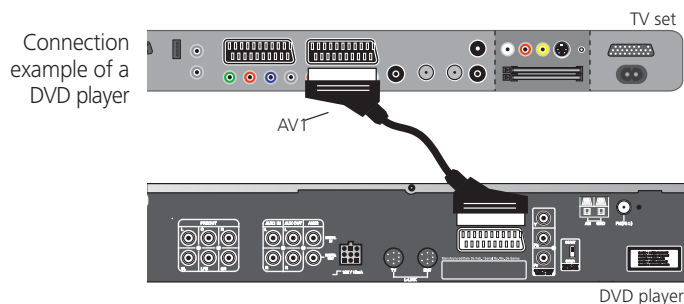
## Connecting a DVD player to the TV set

➡ DVD player is registered with the connection wizard.

Switch off all equipment before connecting.

Connect the Euro-AV output of the DVD player to the **AV1** socket of the TV set.

Use a fully equipped Euro-AV cable (available from your dealer) for this.



## Playback from AV device

If the device supports Digital Link Plus on **AV1/2** or if **Immediate playback** → **yes** was selected in the connection wizard, the TV set switches automatically to the appropriate AV input after switching on the AV device.

The AV input can also be called manually, however.



Call **AV selection**.



▲ ▼ Select **DVD**,  
**OK** switch over.

Start playback on the connected device.

# Operating additional equipment

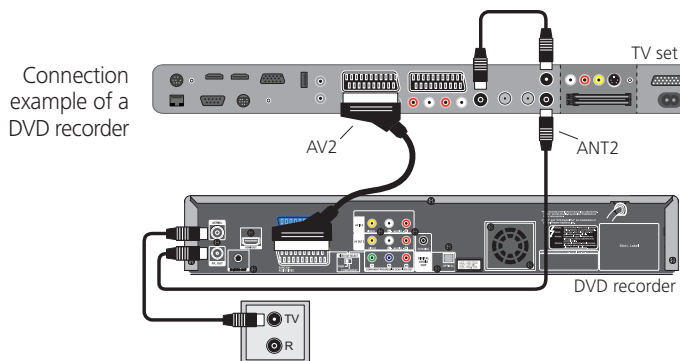
## Connecting a DVD recorder to the TV set

- ➡ DVD recorder is registered with the connection wizard.  
Switch off all equipment before connecting.

Connect the Euro-AV output of the DVD recorder to the **AV2** socket of the TV set.

Use a fully equipped Euro-AV cable (available from your dealer) for this.

If you want to receive and record analogue stations with the receiver (tuner) built into the recorder, the recorder must be looped into the aerial cable. Connect the DVD recorder as shown in the connection example below.

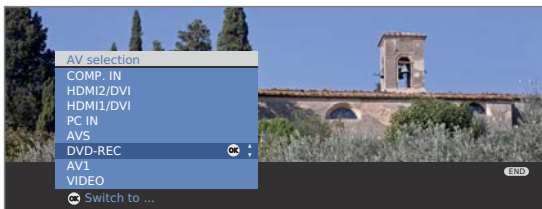


- ➡ If you want to record DVB stations with an external recorder, the internal receiver of the TV set must be used (see "Timer recording with external devices" on page 65).

## Playback from AV device



Call **AV selection**.



▲ ▼ Select **DVD-REC**,  
**OK** switch over.

Start playback on the connected device.

## Connecting Camcorder/camera

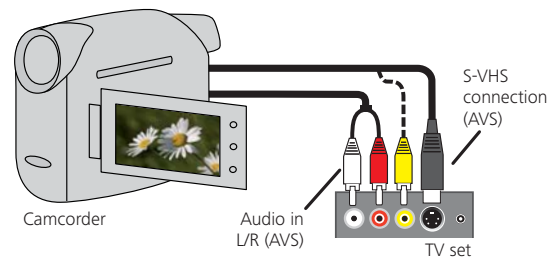
- ➡ Camcorder/camera is registered with the connection wizard.

Switch off all equipment before connecting.

Connect the AV output of the camcorder to the audio input sockets L/R (white/red) and the S-VHS connection of the AVS sockets of the TV set.

Use the AV cable enclosed with the camcorder for this. Some camcorders only supply an FBAS signal instead of an S-VHS signal at the AV output. In this case use the AVS video input (yellow).

Connection example of a camcorder



## Playback from AV device



Call **AV selection**.



▲ ▼ Select **CAM**,  
**OK** switch over.

Start playback on the connected device.

# Operating additional equipment

## Devices to the HDMI (DVI) connections

The HDMI connections (High Definition Multimedia Interface) allow the transmission of digital video and audio signals from a player, e.g. DVD player, DVD recorder, Blu-ray player, game console or Set-Top-Box via a single cable.

The digital video and audio data are transmitted without data compression digitally and therefore lose none of their quality.

A maximum of five devices can be connected in cascade to every HDMI socket. The devices are arranged in the AV menu and in the station list below the appropriate HDMI socket. If the respective device sends its own device name, this appears in place of the connection name.

Your TV set can show 24p films, which are output from a connected HDMI player, e.g. Loewe BluTech Vision, optimally (see glossary, page 117).

To do this, **Film quality improvement (DMM)** must be set to **on** (see page 24).

Digital video signals from a DVI player can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. The sound must be piped in additionally.

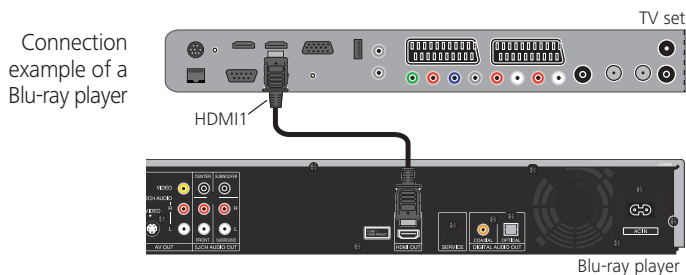
HDMI and DVI both use the same copy protection method HDCP.

### Connecting the device

► It is not necessary to register HDMI devices with the connection wizard.

Switch off all equipment before connecting.

Connect the device with an HDMI cable (type A, 19-wire) to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set.



If a DVI/HDMI adapter cable is used, the corresponding sound can be piped through the **AUDIO IN1** (analogue) or **AUDIO DIGITAL IN** (digital) socket on the TV set (see also page 62).

### Playback from the device



Call **AV selection**.



▲ ▼ Select **HDMI1/DVI** or **HDMI2/DVI** socket. With Digital Link HD-capable devices the device name may possibly appear in place of the connection name.

**OK** Switch over.

Start playback on the connected HDMI device. The best possible format for the picture is detected and set automatically.

# Operating additional equipment

## Concealed installation of HDMI devices

### Digital Link HD (HDMI CEC)

The Digital Link HD (HDMI CEC) system operation allows Loewe television sets to transmit the remote control signals via the HDMI connection of a TV set to compatible HDMI devices, such as e.g. Loewe AudioVision. You can therefore set up a concealed CEC capable HDMI device.

To do this, allocate the HDMI CEC function to the required device button **STB**, **DVD**, **RADIO** or **AUDIO** (see right column).

Now allocate the Digital Link HD function to the used HDMI device.

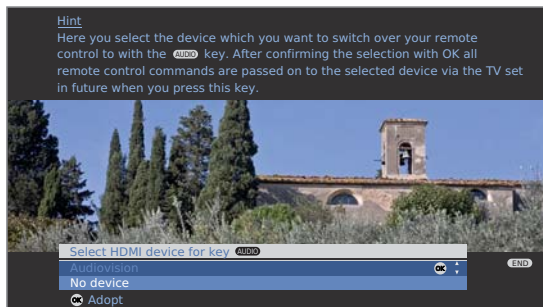
### Allocating an HDMI device



➡ The CEC capable HDMI device is connected to one of the HDMI sockets of the TV set and switched on.

Press the required button for 5 seconds.

A selection menu appears on the TV set.



▲ ▼ Select the required device from the list.  
**OK** Accept.

From now on, the remote control transmits the commands from the TV set to the HDMI device, if the appropriate device button (**STB**, **DVD**, **RADIO** or **AUDIO**) has been pressed beforehand.

### Remote TV switch on via Digital Link HD

In the **TV menu** under **Connections** → **Miscellaneous** → **Remote TV switch on via Digital Link HD**, you can select whether the TV set is to switch on automatically from standby mode when a disc is played or a screen menu displayed on connected CEC-capable HDMI equipment.

### Allocating the HDMI CEC function to a device button

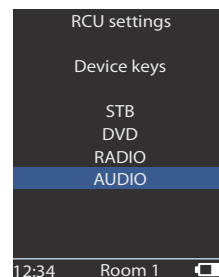


Press the **ROOM** button.

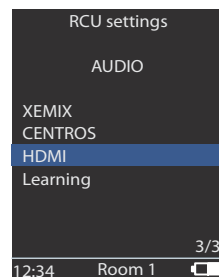


▲ ▼ Select the **RCU settings**,  
**OK** confirm.

▲ ▼ Select the **Device keys**,  
**OK** confirm.



▲ ▼ Select **STB**, **DVD**, **RADIO** or **AUDIO**,  
**OK** confirm.



▲ ▼ Select **HDMI**,  
**OK** confirm.

The HDMI CEC function has now been activated for the selected device button. Finally, the required HDMI device must be assigned to the device button (see left column).

# Operating additional equipment

## Devices to the PC IN connection

You can connect a PC to the **PC IN** socket for example and thus use the TV screen as a monitor.

When connecting a PC or accessory equipment to the PC IN socket of the TV set, set one of the following screen resolutions on the PC / accessory equipment first.

<b>800 x 600</b>	<b>60 Hz</b>	(SVGA)	<b>1024 x 768</b>	<b>60 Hz</b>	(XGA)
<b>1280 x 1024</b>	<b>60 Hz</b>	(SXGA)	<b>1360 x 768</b>	<b>60 Hz</b>	(WXGA)
<b>720 x 576i</b>		(SDTV)	<b>720 x 480i</b>		(SDTV)
<b>720 x 576p</b>		(SDTV)	<b>720 x 480p</b>		(SDTV)
<b>1280 x 720p</b>		(HDTV)	<b>1920 x 1080i</b>		(HDTV)

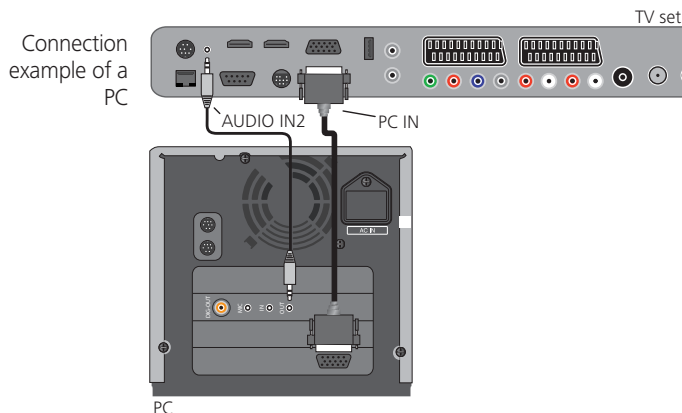
### Connecting the device

There is no need to register the device with the connection wizard.

Switch off all equipment before connecting.

Connect the device to the TV set's **PC IN** socket with a VGA cable.

Connect the analogue audio signal of the PC to the **AUDIO IN2** jack on the TV set with a stereo cable.



Alternatively, connect the digital audio output of the PC or accessory equipment to the **AUDIO DIGITAL IN** socket of the TV set with a cinch cable.

The digital audio input can be assigned to the PC IN socket by **TV menu** → **Connections** → **Miscellaneous** → **Assign digital audio input**, see page 62.

### Playback from the device



Call **AV selection**.



▲ ▼ Select **PC IN** socket, **OK** switch over.

### Adapt geometry (only possible with certain signals)

This can be used to position the picture correctly and move the position of the picture (horizontally and vertically) so that it fills out the whole screen.



Call **TV menu**.



◀ ▶ Select **Geometry**,  
▼ go to the menu line below.  
◀ ▶ Select the desired setting,  
▼ go to the menu line below.  
◀ ▶ Make settings.

### Set colour standard (only possible with certain signals)



Call **TV menu**.



◀ ▶ Select **Picture**,  
▼ go to the menu line below.  
◀ ▶ Select and set **Colour standard**:  
**RGB** or  
**Ycc / Ypp**

The colours will not be shown correctly if the wrong standard is set.

# Operating additional equipment

## Devices to the Component IN connection

DVD players/recorders or a Set-Top-Box with Component Video connections can also be connected to the **Cb/Pb Cr/Pr Y** sockets (**SD/HD-COMPONENT**) of the TV set instead of to the EURO-AV sockets.

The connecting cable with three cinch plugs each transfers the picture information with a better quality than a EURO-AV cable. You need another cable for the sound transmission.

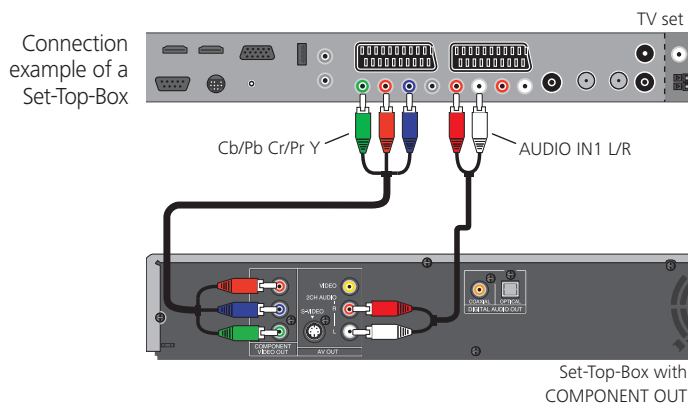
### Connecting the device

➡ Device to COMP. IN is registered with the connection wizard.

Switch off all equipment before connecting.

Connect the Component Video outputs of the external device by a triple cinch cable to the **Cb/Pb Cr/Pr Y** sockets of the TV set.

Connect the analogue audio outputs of the external device to the **AUDIO IN1 L/R** sockets of the TV set by a dual cinch cable.



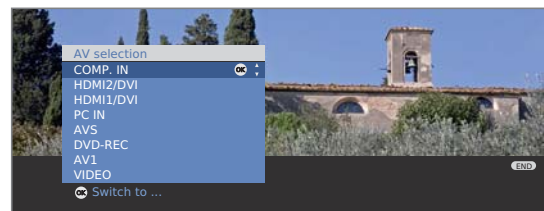
Alternatively, connect the digital audio output of the external device to the **AUDIO DIGITAL IN** socket of the TV set with a cinch cable.

The digital audio input can be assigned to the COMP. IN socket by **TV menu** → **Connections** → **Miscellaneous** → **Assign digital audio input**, see page 62.

### Playback from the device



Call **AV selection**.



▲ ▼ Select **COMP. IN** socket, **OK** switch over.

### Adapt geometry (only possible with certain signals)

This can be used to position the picture correctly and move the position of the picture (horizontally and vertically) so that it fills out the whole screen.

MENU



Call **TV menu**.

- ◀ ▶ Select **Geometry**,
- ▼ go to the menu line below.
- ◀ ▶ Select the desired setting,
- ▼ go to the menu line below.
- ◀ ▶ Make settings.

# Operating additional equipment

## Sound components wizard

The sound components wizard helps you to configure the components used to play the TV sound.

Depending on what you want to use, active speakers, speaker systems, Loewe Individual Sound Projector and analogue and digital HiFi/AV amplifiers can be configured.

The sound components wizard is preset to playback via TV speakers at the factory.

If a Loewe Preceiver Auro has been connected to the TV set via link cable, you can only select between **TV speakers** and **Auro** in the sound components wizard.

### Integrated Dolby Digital Decoder

Your TV set is equipped with an integrated Dolby Digital Decoder. This system has been introduced to the DVD video range and digital TV stations can also broadcast in digital multi-channel sound.

For playback of 5 audio channels the surround sound is reinforced by the deepest frequencies from the subwoofer channel (SUB), (5.1 reproduction = 5 audio channels and 1 subwoofer). All 5 audio channels are reproduced with the full frequency range from 20-20,000 hertz and generate the original theatre effect.

The Dolby Digital Decoder also decodes dts, MPEG and the analogue Dolby Pro Logic and Dolby Pro Logic II signals, regardless of whether the audio signal is transmitted by an external device or received by the TV set.

DVDs or CDs with PCM coded audio format are also decoded by the Dolby Digital Decoder. The CD/DVD player must be connected via a coaxial, digital connection to the digital input **AUDIO DIGITAL IN** for this (see page 62).

The audio signals decoded by the Dolby Digital Decoder are output via the **AUDIO LINK** interface. You can connect a speaker system (see page 57) or active speakers (see page 58) to the **AUDIO LINK** interface and configure these with the **sound components wizard**.

Settings for speaker systems and active speakers which are connected via the **AUDIO LINK** interface to the Dolby Digital Decoder of the TV set:

- Register speaker (system) or active speaker.
- Setting of the lower limit frequency of the speakers.
- Setting of the distances between listener and speakers.
- Level settings for the speakers.
- Setting of the phase position for the subwoofer channel.



# Operating additional equipment

## Connecting Loewe sound system

### Setup

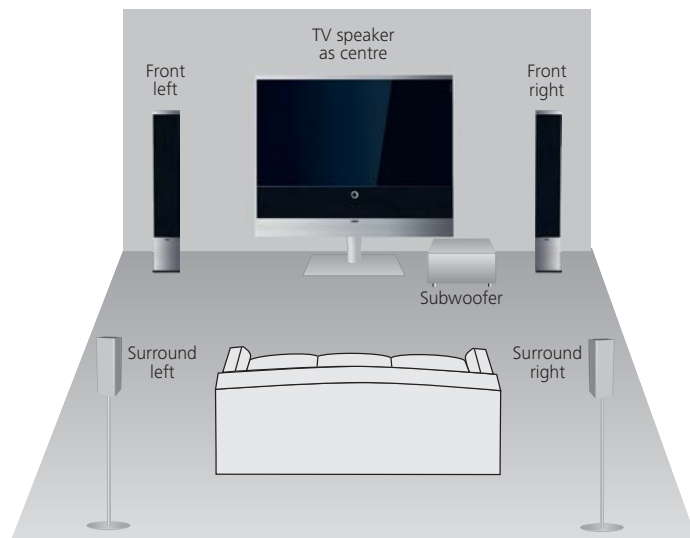
The arrangement of speakers and TV set can look like the illustration below:

The front and surround speakers should be installed symmetrically to the TV set and to your sitting position.

You can place the subwoofer anywhere on the floor. We recommend placing it in front asymmetrically next to the TV set.

If a centre speaker is used, it should be placed centrally below the TV set.

For the settings in the sound components wizard enter the distances of the centre speaker, and the front and surround speakers to your sitting position. This guarantees a natural spatial image of the sound.

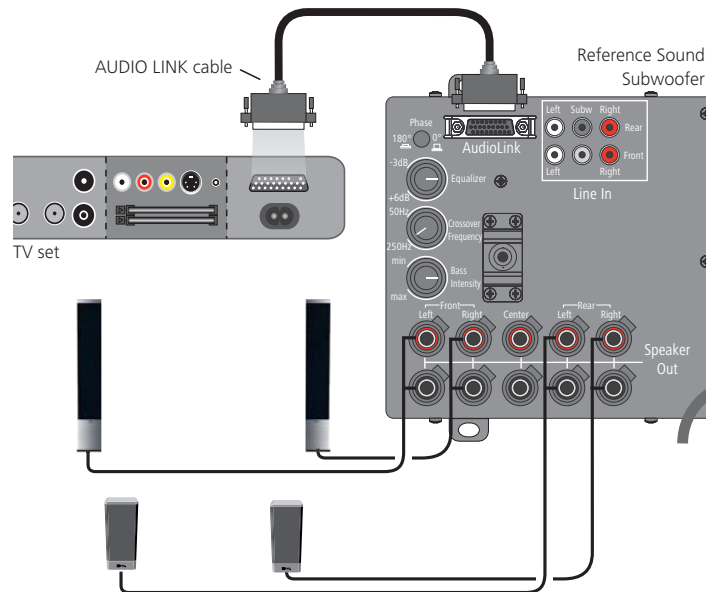


Installation example for a Loewe sound system

### Connecting

Switch off all devices before connecting.

The subwoofer is connected to the TV set via the **AUDIO LINK** interface. Use the **AUDIO LINK** cable provided with the subwoofer.



Connecting Loewe sound systems to the TV set

# Operating additional equipment

## Connecting active loudspeakers

If you want to use the active loudspeakers, you can connect these to the AUDIO LINK interface of the TV set with an adapter cable. The adapter cable is available from your dealer (see page 114).

### Connecting active speakers

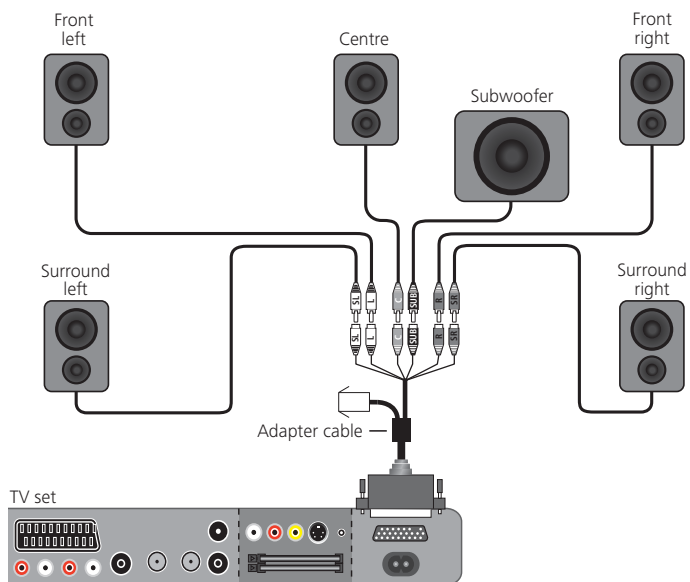
Switch off all devices before connecting.

Plug the adapter cable into the **AUDIO LINK** interface of the TV set. Connect the cinch connections of the adapter cable to the connections of the corresponding active speakers.

The cinch connections of the adapter cable are labelled:

<b>R</b> for Front right	<b>SR</b> for Surround right
<b>L</b> for Front left	<b>SL</b> for Surround left
<b>C</b> for Centre	<b>SUB</b> for Subwoofer

The connections on the adapter cable are preamplifier outputs. Therefore, only active speakers may be connected directly to the adapter cable.



Connection of active speakers to the TV set

## Adjusting the speaker system

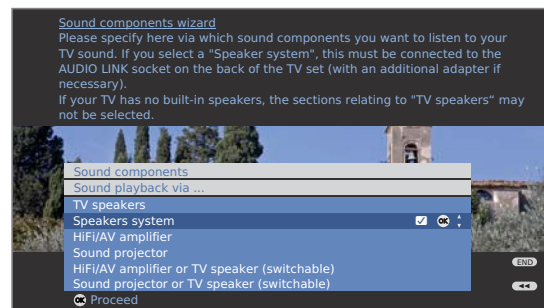
### Calling the sound components wizard



➡ In normal TV mode, without other displays.

Call **TV menu**.

- ◀ ▶ Select **Connections**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Sound components**,
  - OK** calls the sound components wizard.

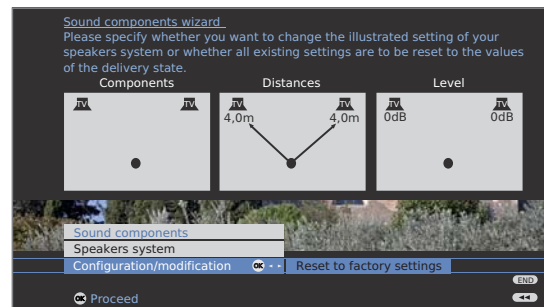


### Sound playback via ... speakers system

Enter here that you want to hear the TV sound over a speaker system. If you connect active speakers, please use the setting **Speakers system**.



- ▼ ▲ Mark **Speakers system**,
  - OK** to continue.



If nothing has been set yet, the factory settings or otherwise the last set values are displayed.

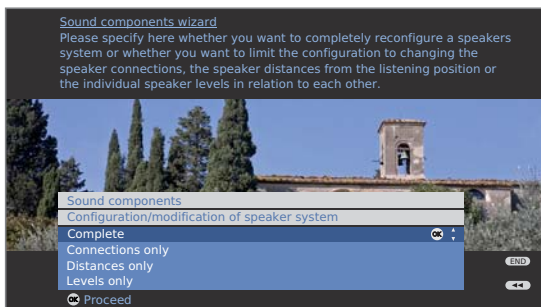
continued on the next page ➡

# Operating additional equipment

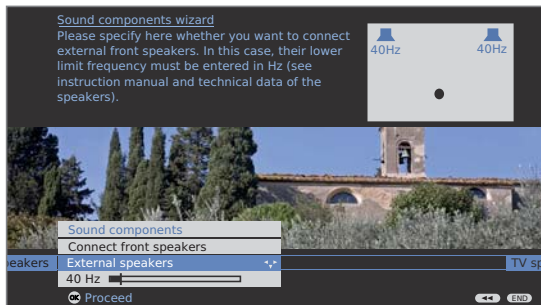
If you want to set up or change a speaker system:



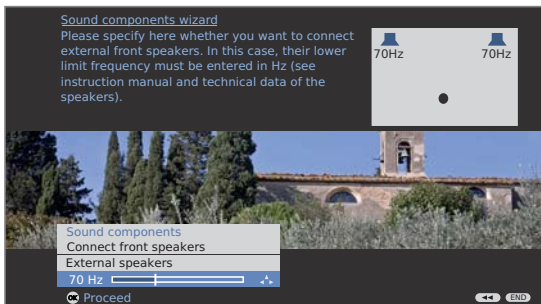
- ◀ ▶ Select **Configuration/modification**,  
**OK** call selection.



- ▼ ▲ Select **Complete**,  
**OK** continue to connect and set the **front speakers**.



- ◀ ▶ Select **External speakers**,  
▼ go to the menu line below and  
◀ ▶ set the **lower limit frequency** of the front speakers  
in 10 Hz steps.



- ➔ Select the start value of the frequency response of the speakers for the right setting (e.g. 50Hz for the specification "Frequency response 50-20.000Hz"). See the technical data of the speakers for the value.

- ➔ You can replace the external front speakers by the TV speakers if necessary. In this case, select **TV speakers**. Then transmit the sound of the front speakers.



**OK** continue to connect and set the **surround speakers**.

- ◀ ▶ Select **yes** for external speakers.
- ➔ If no surround speakers are connected, these can be simulated using the front and centre speakers.
  - ▼ Go to the menu line below and
  - ◀ ▶ set the **lower limit frequency** of the surround speakers in 10 Hz steps.
- ➔ Select the start value of the frequency response of the speakers for the right setting.



**OK** continue to connect and set the **centre speaker**.

- ◀ ▶ Select whether the **TV speakers** or an **External speaker** is to reproduce the centre sound or **no** if no centre speaker is connected.
- ➔ If no centre speaker is connected, the front speakers also transmit the centre sound parts additionally.
  - ▼ for **External speakers** or **TV speakers** go to the menu line below and
  - ◀ ▶ set the **lower limit frequency** of the centre speaker in 10 Hz steps.
- ➔ Select the start value of the frequency response of the speakers for the right setting.



**OK** continue to connect the **Subwoofer**.

- ◀ ▶ **yes** is the selection for subwoofer.
- ➔ If no subwoofer is connected, the front speakers additionally transmit the sound parts intended for the subwoofer as far as possible.

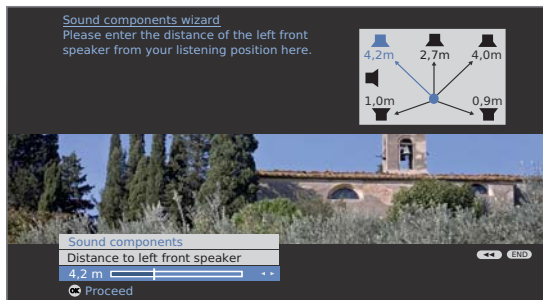
continued on the next page →

# Operating additional equipment



**OK** continue to set the **Distance to left front speaker.**

- ➡ Measure the distances from your listening position to the front, surround, and centre speakers respectively. The Dolby Digital Decoder calculates the delay times for the speaker signals from these so that they reach the listener simultaneously.



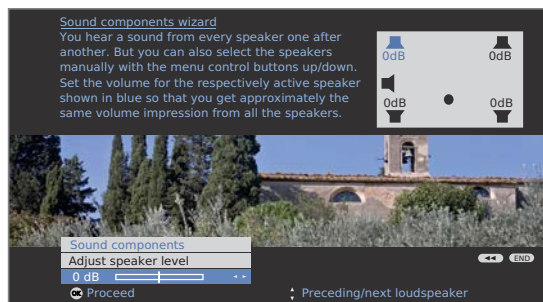
- ◀ ▶ Set the distance between the left front speaker and your listening position in 10 cm steps.

**OK** continue respectively to the other speakers and  
◀ ▶ adjust the distance.

- ➡ After setting the distance for the centre speaker ...



**OK** continue to **Adjust speaker level.**

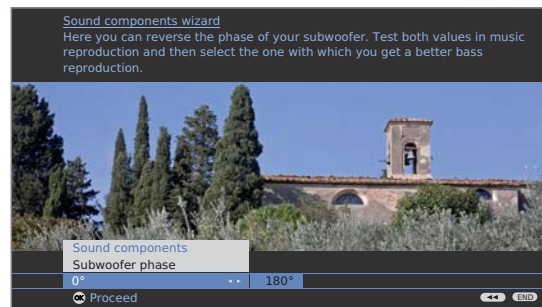


- ◀ ▶ Adjust the volume for each speaker.
- ▼ ▲ Select speakers manually.

- ➡ For balanced audio reproduction all speakers should be set at the same volume level. A noise signal will be reproduced automatically on each speaker in succession. Adjust every speaker to equal perceived volume from your listening position.



**OK** continue to **Subwoofer phase.**



Switch to a station with music with **P+ / P-** or start playback with music on a DVD player.



- ◀ ▶ Test both values (**0°** and **180°**) and select the one with which you get a clearer bass reproduction from your listening position.

**OK** to confirm the setting and exit the wizard.

This ends the sound components wizard for connecting and setting up a speakers system.

# Operating additional equipment

## Connecting audio amplifiers

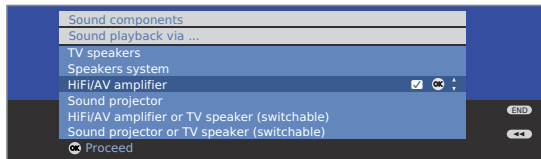
The sound components wizard permits configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different digital audio formats (Dolby Digital, dts, MPEG, and stereo/PCM). See the operating manual of the audio amplifier for more information.



Call **TV menu**.



- ◀ ▶ Select **Connections**,
- ▼ go to the menu line below.
- ◀ ▶ Select **Sound components**.
- OK** calls the sound components wizard



- ▼ ▲ Mark the **HiFi/AV amplifier**.
  - OK Proceed.**
  - ◀ ▶ Select whether the sound is to be transmitted digitally or analogue to the the amplifier.
- Continue, depending on the amplifier, see right column.

### Explanations of the setting possibilities:

**HiFi/AV amplifier** Select the setting when an amplifier is connected and the TV speakers are not used.

**HiFi/AV amplifier or TV speakers (switchable)** Select the setting when an amplifier is connected and the TV speakers are used. In the sound mode selection the audio reproduction can then be switched between the amplifier and the TV speakers.

**Sound formats** Specify sound formats which can be decoded with the digital amplifier (see operating manual of the used amplifier).

**Type of amplifier** Select either stereo or surround amplifier.

**TV loudsp. as centre speaker** For every connected surround amplifier, select whether the TV loudspeakers are to be used as centre speaker. If so, establish a connection between the centre output of the amplifier and the centre input of the TV set **AUDIO IN1 C** with a cinch cable.

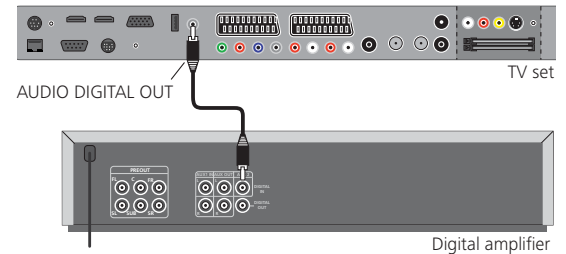
**Attention:** Do not use the centre speaker connection of the amplifier, use the centre pre-amp output instead!

## Connecting digital audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select **yes**.

Connect the digital audio output of the TV set **AUDIO DIGITAL OUT** with the digital audio input of the amplifier via a cinch cable:



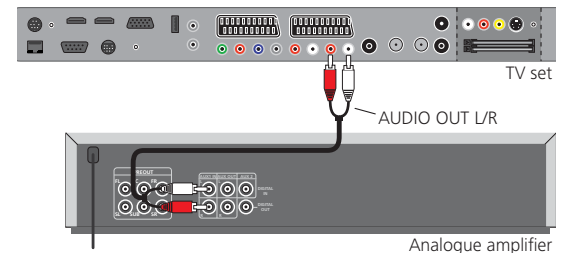
Sound formats, amplifier type and other settings, see explanations of the setting possibilities (left hand column).

## Connecting analogue audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select **no**.

Connect the analogue audio output of the TV device **AUDIO OUT L/R** via a stereo cinch cable to the analogue audio input of the amplifier:



For selecting the amplifier type and making other settings, see explanations of the setting possibilities (left hand column).

# Operating additional equipment

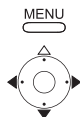
## Assignment of the digital audio input

In order to be able to hear the digital sound of an external device connected to an AV input, an AV input can be assigned to the digital audio input socket **AUDIO DIGITAL IN**. When switching to this AV input, the digital audio signal applied to the **AUDIO DIGITAL IN** input is passed on to the integrated Dolby Digital Decoder and the digital audio output socket **AUDIO DIGITAL OUT**. You will then hear the digital sound of the assigned AV input instead of the analogue sound if available.

### Connecting devices to the digital audio input

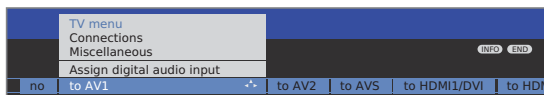
For the digital audio playback from an external device, e.g. the DVD player, you have to feed the digital audio signal to the TV set. The external digital audio signal can be played back via the integrated Dolby Digital Decoder in the TV set, via an externally connected digital audio amplifier, Loewe Individual Sound Projector or Loewe Auro.

- ➔ If an external audio amplifier or Loewe Individual Sound Projector is used, this must be registered in the sound components wizard (see page 61).

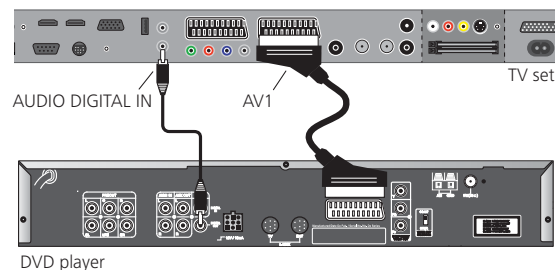


Call **TV menu**.

- ◀ ▶ Select **Connections**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **Assign digital audio input**,
  - ▼ go to the menu line below.
- ◀ ▶ Select **AV input**.



To connect a DVD player to the digital audio input of the TV set for example, connect the digital output socket of the DVD player (DIGITAL OUT) via a cinch cable to the **AUDIO DIGITAL IN** socket on the TV set.



If new devices are connected and registered in the connection wizard, the digital audio input **AUDIO DIGITAL IN** is assigned in the connection wizard (see page 49).

## Audio connection in HDMI (DVI) devices

### External devices with DVI connection

If an external device with DVI interface is connected via a HDMI/DVI adapter to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, you can connect the digital sound of the external device to the digital audio input socket **AUDIO DIGITAL IN**.

The assignment of the digital audio input to the corresponding HDMI socket of the TV set takes place as described in the column on the left.

If you want to use the analogue sound of the external device, connect it to the **AUDIO IN1** socket.

### External devices with HDMI connection

If external devices with HDMI interface are connected to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, no assignment of the audio input is necessary because the digital transmission of picture and sound takes place via one connection in HDMI.

## RS-232C interface

You can connect either the Loewe Individual Sound Projector or a home network system of different manufacturers (e.g. AMX, Crestron) to your TV set via the RS-232C interface.

Please consult your dealer for configuration of the RS-232C interface and further information about the different home networking systems.

# Operating additional equipment

## The direct way to record

You can programme timer recordings via the integrated Digital Recorder or connected recorders on the TV set. The recording wizard is integrated at several places for programming a recording. Please also read further information on recording with the digital recorder in chapter **Digital-Recorder+** starting from page 73.

### Programming a timer recording with the EPG

⇒ You are in EPG mode; if not, press the **EPG** button.



▼ ▲ Mark the desired broadcast.

**RECORD** button: Call **Timer data**.

Change or confirm **Timer data** as necessary.

### Programming a timer recording via teletext

⇒ You are in teletext mode; if not, press the **TEXT** button.



**RECORD** button: Call the programme pages of the current station. Change preset page numbers, see page 37.



**Red** button: Go to the appropriate page.



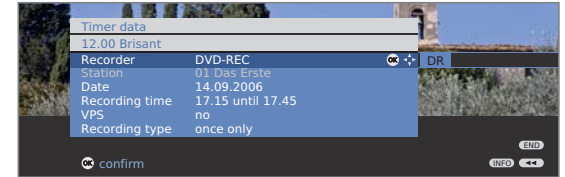
▼ ▲ Select desired broadcast,

**OK** calls **Timer data**.

Change or confirm **Timer data** as necessary.

## Enter timer data

Timer data are displayed after selecting the broadcast you want to record. You can change these before confirming.



**OK** confirms **Timer data**, or change if necessary:

◀ ▶ Select **Recorder**.

▲ ▼ Select **Date**.

Enter the recording date with the **numeric** buttons.

▲ ▼ Select **Recording time**.

Enter the recording time with the **numeric** buttons.

▲ ▼ Select **VPS**.

◀ ▶ Set **yes/no**.

▲ ▼ Select **Recording type**.

◀ ▶ Set **once only, Mon-Fri, daily, weekly**.

**OK** Confirm the **Timer data**.

### Setting possibilities in the Timer data menu:

Recorder Selection of the connected/integrated recorder.

Date Day of recording.

Recording time Time of recording.

VPS Use VPS data for analogue stations, **yes / no**. (only available for some analogue stations)

Auto time control Use automatic time control, **yes / no**. (only available for some DVB stations and when recording via EPG)

Recording type **once only, Mon-Fri, daily** or **weekly**.

⇒ **Serial** can also be selected for digital recorder recordings via EPG.

⇒ When the automatic time control is activated only **once only** can be selected.

⇒ If you use an external recorder without Digital Link Plus, you have to select the recording source (e.g. AUX) in the recorder. This is also the case when DVB broadcasts are to be recorded. The TV's receiver is used.

⇒ When you use an external recorder with Digital Link Plus or a comparable system (e.g. P50), this is controlled automatically.



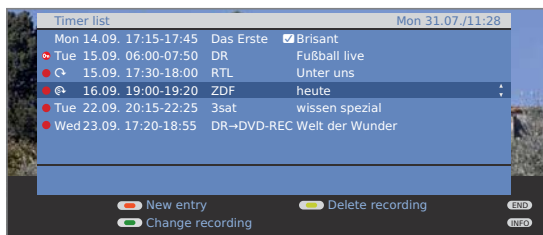
# Operating additional equipment

## Programming the timer with the timer overview

All programmed recordings, marked programs and copy orders are listed in the timer overview. You can also program new recordings, mark other programmes and copy pre-recorded programs from the DR archive to an external recorder with the timer overview.



Call **Timer list**.



- Red button:** New entry (see right hand column).
- Green button:** Change recording.
- Yellow button:** Delete recording.
- Blue button:** Delete memo.

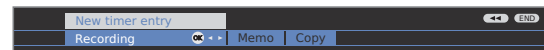
## Explanation of the symbols in the timer list:

- Record
- Repeated recording (daily, weekly or Mon-Fri)
- Serial recording
- Decoding order (later decoding of an encrypted recorded programme)
- Marked programme (see page 34)

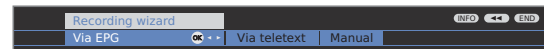
## New entry: Programme timer recording manually

⇒ Timer list is opened.

**Red button:** Call **New timer entry**.



◀ ▶ Select **Recording**,  
**OK** call.



◀ ▶ Select **Manual**.

For programming a timer recording **Via EPG** or **Via Teletext** see page 63.

**OK** Call **Station selection**.

◀ ▶ ▲ ▼ Select station.

**OK** Call **Timer data**.

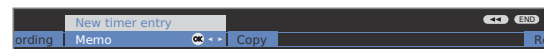
Entry of the timer data see page 63.

After confirming the timer data the new recording is transferred to the timer overview.

## New entry: Memorize programme using the timer overview

⇒ Timer list is opened.

**Red button:** Call **New timer entry**.



◀ ▶ Select **Memo**.  
**OK** EPG is opened.

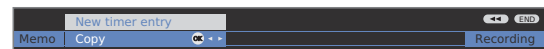
Note desired programme as described in **Switching and memorizing with the programme list** (Seite 34).

## New entry: Copying DR archive entries to DVD

⇒ Timer list is opened.

⇒ An external recorder is registered.

**Red button:** Call **New timer entry**.



◀ ▶ Select **Copy**.  
**OK** The DR archive is opened.

For further steps, see the chapter **Digital Recorder+ – Copying recordings** on page 87.



# Operating additional equipment

## Timer recording with external devices

► It is not possible to record HDTV broadcasts with external devices. Use the internal Digital Recorder for this purpose.

### Recorder with Digital Link Plus

If you use an externally connected recorder with Digital Link Plus or a similar system, the TV set and connected recorder exchange data (e.g. compare station lists TV set/recorder or timer data of analogue stations). Please consult the operating manual of your recorder to find out if your recorder is Digital Link Plus compatible. In addition use only Euro-AV cables for the connection between TV set and recorder.

#### Analogue stations

The timer data are transmitted automatically from the TV set to the recorder after programming is complete. (For DVD recorders in addition the recording quality SQ or EQ is also transmitted.)

The recording then is controlled by the recorder and the recorder tuner is used for reception of the programme.

The recording data are not saved in the timer overview of the TV set. Consequently if you want to change or delete the timer data then you must do so on the recorder.

#### Digital stations

If you want to record digital stations with an externally connected recorder, then the DVB tuner is used and the TV device takes over control of the recorder. Then the station on the TV set is locked during the timer recording. It is not possible to switch over to another DVB station.

### Recorder without Digital Link Plus

If the programmed timer cannot be transmitted to the external recorder (no Digital Link Plus) but supports Digital Link (Loewe-own system), the TV receiver is always used.

Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder.

In addition use only Euro AV cables for the connection between TV set and recorder.

#### Analogue and digital stations

You can control the recording from the TV set. The recorder must be set manually to the AV input, to which the TV device is connected.

Then the station on the TV set is locked during the timer recording.

It is not possible to switch over to another station.

### Copy protection

Copy-protected programmes will not be output on the EURO AV sockets for legal reasons.

# Operating additional equipment

## PhotoViewer

You can view photos in the standard JPEG format stored on a USB stick or a memory card in a card reader. You can also collect photos in a slide show.

### Connecting

► Certain USB memory media may not be supported by this set under some circumstances.

Plug a card reader (via a USB cable) or a USB stick into the USB port on the TV set (see page 5).

Use a USB extension cable (see Accessories on page 114) for the USB stick if the USB socket is difficult to access (e.g. wall mounting) or the USB stick is too big to be plugged in.

### Starting the PhotoViewer

► No photos can be displayed which are available in progressive JPEG format.

A memory card or the USB stick should contain data in standard JPEG format with the file extension ".jpg".

ASSIST

Call the **Assist+** menu.



▲ ▼ Mark **PhotoViewer**,  
**OK** continue.

If only one memory medium is available, the **PhotoViewer** is started. You see the first page of the photo overview (see right column).



If several media are available, select with  
◀ ▶ memory medium and then with  
**OK** start **PhotoViewer**.

### Ending the PhotoViewer

Remove used memory medium.

END

Or:  
Press **END button** (when photo list is displayed).

TV

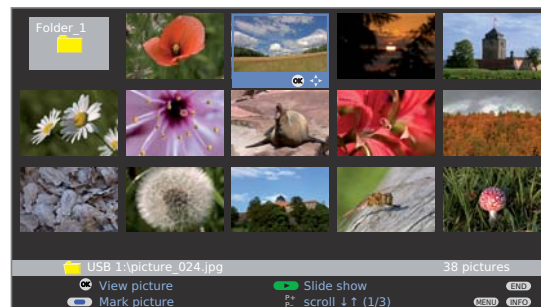
Or:  
Press **TV button**.

ASSIST

Or:  
Press the **ASSIST button** and call another function in the Assist+ menu.

## Viewing photos

► The photo overview is displayed.



▲ ▼ ◀ ▶ Mark a photo, page with **P+/P-** if necessary.  
**OK** Display as full picture.



▶▶ or **P+** Next photo.

◀◀ or **P-** Previous photo.

END

**END:** Show/hide photo information.



**Yellow button:** Zoom photo.

Enlargement factors x2, x4, and x8 are possible.

Press the button several times.

The 4th press returns you to the original size.

Select photo section in zoom mode with ▲ ▼ ◀ ▶ .  
Exit the zoom mode to the photo overview with **OK** or the **STOP button**.



◀ ▶ Rotate picture by 90 degrees to the left/right.

► Photos displayed in a slide show can only be rotated in the Pause mode for viewing.



**OK** or **STOP button:** Back to the photo overview.

# Operating additional equipment

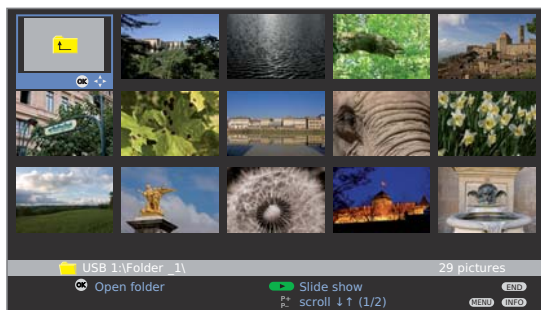
## Open folder

➡ Folders will only be displayed if they were created on the memory card / USB stick.



▲ ▼ ◀ ▶ Mark a folder in the photo overview.  
**OK** Open folder.

The photos in this folder are displayed.

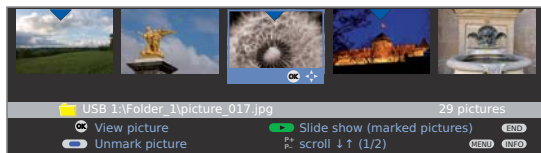


## Marking photos for slide show

Mark the photos that you want to display in a slide show.



▲ ▶ ◀ ▼ Navigate to a photo.



— — — — — **Blue button:** Mark photo for slide show.

## Starting a slide show

➡ No photos marked: All photos of the folder that was just opened will be displayed.

➡ Photos marked: Only marked photos will be displayed.



**PLAY button:** Start / continue slide show.



**OK** calls the photo overview.



**PAUSE button:** Pause / continue the slide show.



**Yellow button:** Zoom picture (only in pause mode).



◀ ▶ Rotate picture to left/right in 90° increments (only in pause mode).



▶▶ or **P+** Next photo.



◀◀ or **P-** Previous photo.



**STOP button:** End slide show.

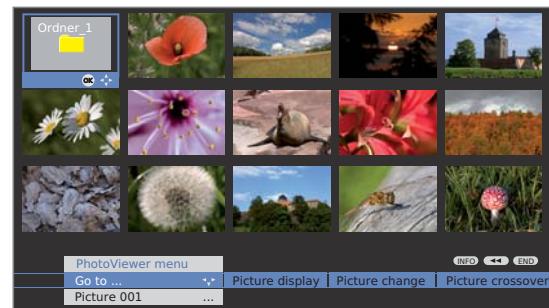
## Calling the PhotoViewer menu

In the PhotoViewer menu you can make picture settings and select the memory medium.

➡ The photo overview is displayed.



Call **PhotoViewer menu**.



## Explanations of the setting possibilities:

**Go to...** Within the folder select a photo directly or go to the beginning or end of the folder.

**Picture display** With **Optimum size** the photo is reduced or enlarged in size so that the screen is optimally filled.  
 With **Original resolution** each pixel of the photo represents one pixel on the screen. If the photo resolution is higher than that of the screen, then portions of the photo will be cropped.

**Picture change** Set the display time per photo in a slide show to between 3 and 60 seconds.  
 The loading time of the photo depends on the photo size, the number of saved files and the transmission speed of the memory medium. Therefore a photo change may take longer than specified.

**Picture crossovers** There is a choice of four different photo transitions for changing slides. You can also have the photo transitions run in sequence.

**Photo info** Display additional information about the picture: Recording time and date, resolution and picture size.

**Picture settings** The settings correspond to the picture settings in TV mode (see page 24).

**Sound** Select whether or not the previously heard sound is to be heard during the PhotoViewer operation.

**Select memory medium** Select memory medium from which the photos are to be reproduced. This menu item is only displayed if at least two memory media are available.

# Operating additional equipment

## MusicBox

You can play music files in MP3 or WMA format which are saved on a USB stick or a memory card in a card reader. You can also collect the music titles in play lists.

### Connection

- ➡ Certain USB memory media may not be supported by this device.
- ➡ Your memory medium should not exceed a total capacity of 8 GB. Larger memory media may not be supported. The read-in time of the memory medium depends on the stored data volume.
- ➡ The file names must have the extension ".mp3" or ".wma". Alternative specifications such as MP3 Surround or similar are not supported.

Plug a card reader (with a USB cable) or a USB stick into the USB port on the TV set (see page 5).

### Starting the MusicBox

ASSIST

Call **Assist+** menu.



- ▲ ▼ Mark **MusicBox**,
- OK continue.

If there is only one memory medium the **MusicBox** is started with the **MusicBox list** (see right column).

If several media are available select memory medium with



- ◀ ▶ and then with
- OK start **MusicBox**.

### Ending the MusicBox

Remove used memory medium.

END

Or:  
Press **END button** (while status window is displayed)

TV

Or:  
Press **TV button**.

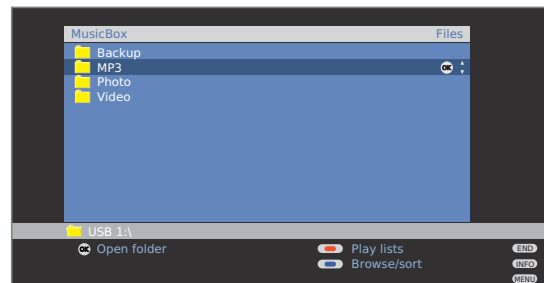
ASSIST

Or:  
Press the **ASSIST button** and call another function in the Assist+ menu.

- ➡ If the MusicBox is ended during playback, the MusicBox remembers the appropriate place in the title. If the TV set is not switched off or the memory medium removed in the meantime, the playback continues at this point the next time the MusicBox is called. The MusicBox then starts immediately on the **MusicBox status window** (see right column).

### Select/play music

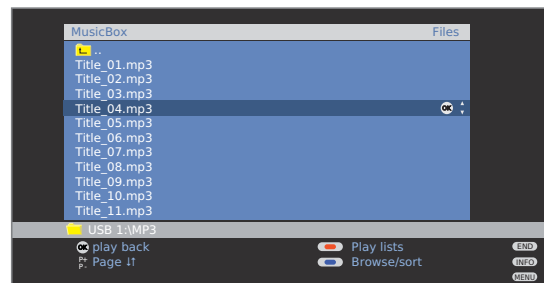
After starting the MusicBox, the content of the memory medium, the **MusicBox list**, is displayed.



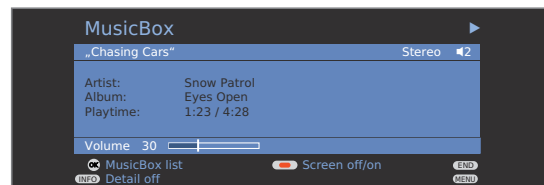
- ▲ ▼ Mark folder, scroll with **P+ / P-** if necessary,
- OK open selected folder.
- You see the music files (titles) and/or sub-folders in the opened folder.

One folder level back:

Select **⬅** ... and press **OK**.



- ▲ ▼ Mark title, scroll with **P+ / P-** if necessary,
- OK play marked title.
- Then the **MusicBox status window** opens with information about the played title.
- ➡ If the file contains additional information (ID3 tags), the title, singer, album title etc. are displayed.



# Operating additional equipment

## Functions of the control buttons

- ▶ Title is played.
- ▶ Fast forward and rewind is not possible with WMA files.



**STOP button:** Once: resume stop, twice: stop.



**PLAY button:**

After resume stop: Continue playing at place where playback was interrupted.

After stop: Start playing the first title according to the set sorting.

For playback: Start the current title from the beginning.

For pause: Continue playback.



**PAUSE button:** Pause / continue playback.



▶▶ Short: next title, long: wind.



◀◀ Short: previous title, long: rewind.

## Settings in the MusicBox status window



**Red button:** Switch off TV screen.

Press **red button**, **INFO** or **OK** to switch back on.



Reduce info window to one line / maximise again.



**OK** Show MusicBox list.

## MusicBox – Browse/sort

You can browse or sort the contents of your memory medium with the coloured buttons according to certain criteria (file names, titles, artists, albums).

- ▶▶ The MusicBox list is displayed.

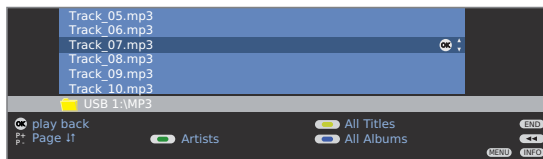


**Blue button:** Call **Browse/sort**.

The MusicBox overview is sorted according to **Files** at the beginning. The sorting is based on the file names of the music files regardless of their ID3 tags.



▲ ▼ Select file/folder and play/open with **OK**.

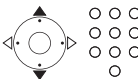
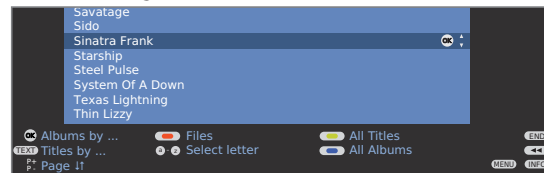


## Sort according to artists



**Green button:** Show **Artists**.

All music titles are sorted alphabetically according to artists (ID3 tags).



▲ ▼ Mark artist, scroll with **P+ / P-** if necessary or enter the initial letter with **numeric buttons** like a mobile phone keypad (see page 16).



**OK** Call **Albums by ...**

The albums of the selected artist are displayed sorted alphabetically.

▲ ▼ Mark album and select with **OK**.

▲ ▼ Select title in album and play with **OK** in MusicBox status window.



**TEXT:** Call **Titles by ...**

The titles of the selected artist are displayed sorted alphabetically.

▲ ▼ Select title and play with

**OK** in MusicBox status window.



## Sorting according to titles



**Yellow button:** Show **All Titles**.

All available titles are sorted alphabetically by ID3 tags and displayed with the appropriate artist.

▲ ▼ Select title and play with

**OK** in MusicBox status window.



## Sorting according to albums



**Blue button:** Show **All Albums**.

All available albums are sorted alphabetically by ID3 tags and displayed with the appropriate artist.

▲ ▼ Mark album and select with **OK**.

▲ ▼ Select title in album and play with

**OK** in MusicBox status window.



## Sorting according to files



**Red button:** Show **file overview**.

## Exit sorting



Exit search/sorting. The new sorting is retained in the MusicBox list.

# Operating additional equipment

## MusicBox – Play lists

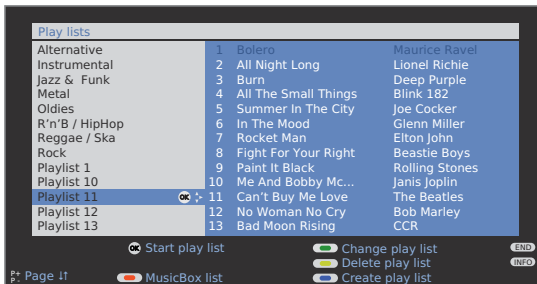
You can save and call your music titles in play lists. Change and create play lists as you like.

The play lists are created on the memory medium in the common M3U format for simple exchange with the PC.

### Call / play play list

→ The MusicBox list is displayed.

 **Red button:** Call **Play lists**.



In the play list overview you see the created play lists on the left hand side of the dialogue. On the right next to it you see the music files in the marked play list.



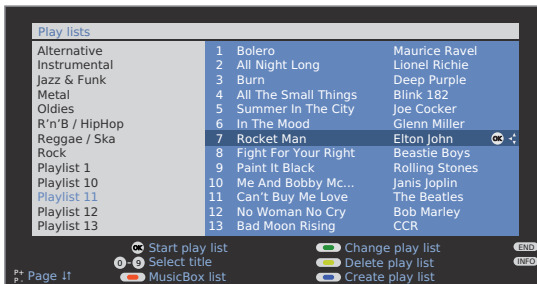
▲ ▼ Select play list, scroll with **P+/P-** if necessary.

**OK** The play list is played in the MusicBox status window starting with the first title. The name of the play list is displayed after the title.



**OK** The play list is displayed again.

▶ Change from list selection to title selection.



▲ ▼ Select title, scroll with **P+/P-** if necessary,

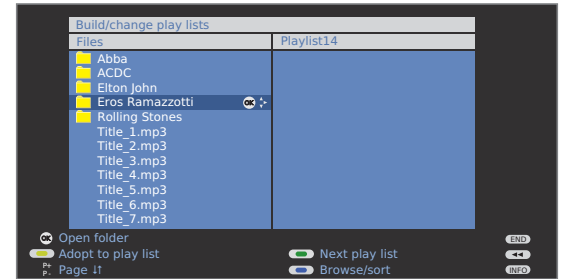
**OK** the play list is played in the MusicBox status window from the marked title.

### Create new play list / add title


- The play list overview is displayed.
- List selection (left column) must be selected. If not, change the column with ◀ .

 **Blue button:** Call **Create play list**.

A new empty play list is created. The file selection is visible on the left.



▲ ▼ Mark title/folder, scroll with **P+/P-** if necessary, **OK Adopt** marked title **to play list** or **open** marked folder.

 **Yellow button:** **Adopt** marked folder **to play list**.

### Change play lists

You can adapt the play lists as required. It is possible to move the titles in the play lists or remove them from the list. The play list can be renamed or deleted completely.

→ The play list overview is displayed.

 **Green button:** Call **Change play list**.



▶ Go to the page of the play list (right column).



 **Green button:** Select play list to be changed.

# Operating additional equipment

## Rename play lists

► Play list (right column) must be selected. If not, change column with ►.

 **Blue button:** Starts **Rename play list**.



**Numeric buttons:** Enter new name (same procedure as for rename station, see page 30).



**OK** Save new name.

## Move titles in the play lists / change order

► Play list (right column) must be selected.



▲ ▼ Mark title to be moved.



**Yellow button:** Starts **Move title**.



▲ ▼ Select insertion position at which the marked title is to be inserted.

**OK** Move title.

## Remove titles from play lists / clear play list

► Play list (right column) must be selected.



▲ ▼ Mark title to be deleted.

**OK** Remove marked title from play list.

Or:



**Red button:** Starts **Clear play list**.



**OK** Confirm clearing play list.

## Delete play list from memory medium

► The play list overview is displayed.



▲ ▼ Mark play list to be deleted.



**Yellow button:** Starts **Delete play list**.



**OK** Confirm delete play list.

## Exit play list overview

► The play list overview is displayed.



**Red button:** Call **MusicBox list**.

Or:



**END:** Call MusicBox status window.

## MusicBox – Menu

In the MusicBox menu you make sound settings, can select the memory medium and set the repeat mode.


► MusicBox must be activated.





Call **MusicBox menu**.



## Explanations of the setting options:

Select memory medium  Select memory medium from which the audio files are to be used. This menu item is only displayed if at least two memory media are available.

Picture settings  The settings correspond to the picture settings in TV mode (see page 24).

Sound settings  The settings correspond to the sound settings in TV mode (see page 22).

Repeat  Titles can be repeated in two ways:

### Title

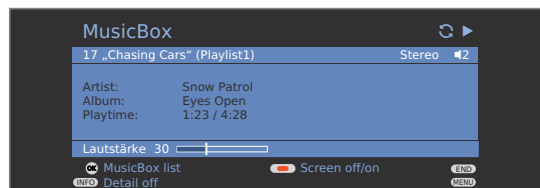
Only the played title is repeated.

### Folder or Play list

Only the titles from the currently selected folder or, if play list is activated, the current list are repeated.

Repeating is endless until the function is switched off in the MusicBox menu.

The appropriate symbols for the repetition are displayed in the top right of the info window.



# Remote control – Digital Recorder functions

english



(page 80) ..... Call timer overview

(page 75) .....in the DR archive: Call Digital Recorder menu

(page 75) ..... Call DR archive<sup>1)</sup>

(page 76, 77, 84) ..... Jump back / rewind / replay

(page 78) ..... Direct recording

(page 76, 85) ..... Freeze picture / pause  
(start time shift viewing)

on the menu: Show / hide info texts

Show / hide Digital Recorder status .....(page 79)  
/ on the menu: Hide menu

Playback /  
Set bookmarks / .....(page 83)  
View highlights .....(page 84)

Jump forward / Fast forward ..... (page 76, 77, 84)

Switch to live picture .....(page 76)  
Stop recording early .....(page 79)  
Stop playback

<sup>1)</sup> With MHEG-5 software:  
Call Assist+, select **DR archive** and call with **OK**.



# Digital Recorder+

Your Loewe TV set is equipped with an integrated hard disk recorder (Digital Recorder). You can use this to record and play TV broadcasts conveniently. The Digital Recorder can even process HDTV signals including the audio and auxiliary signals they contain.

This device supports UK FreeView+ (FreePlay) functionalities.

The wide range of application possibilities of the Digital Recorder are listed below.

## TV viewing with time shift

The Digital Recorder records the TV programme you are currently watching in the background if DR continuous mode is switched on in the Digital Recorder menu (factory setting).

➡ Time-shifted operation is perhaps not possible or only to a limited extent for programmes of stations working with CI Plus encoding (see page 92).

### • Time shift

You can stop a TV programme at any time and continue playing it later with a time shift. The maximum time shift is up to 3 hours. The recording starts again from the beginning and the old content is deleted every time you switch stations.

### • Fast navigation by jumping

Jump backwards and forwards in the movie at the press of a button. The jump distance is adjustable.

In addition, the special Loewe function "Smart Jump" ensures that for each change in jump direction the jump distance is cut in half. This way you can quickly find a specific spot in the time shift playback.

### • Fast forward and rewind

You can fast forward and rewind at three different speeds in the programme you are viewing with time shift (fast rewind not possible with HDTV).

### • Slow motion

You can play a programme which you are watching with a time offset at four different slow motion speeds.

### • Subsequent archive recording

You can also decide to copy the whole TV programme into the Digital Recorder's archive at the end of a TV programme you have been watching with a time shift.

### • Setting bookmarks

During a football match, for example, you can flag goals or exciting scenes. For this, the time shift recording is converted into an archive recording. For later playback you can play bookmarks as highlights. 30 seconds before and after the set bookmark are played.

### • Replay-function

For instance, if you are watching a football match as a live picture, you can jump back 40 seconds at the push of a button and watch the scene again. You see the live picture at the same time in a PIP picture.

## Digital Recorder archive

You can record movies you want to watch later in the Digital Recorder's archive.

➡ Recordings of CI Plus encoded programmes are perhaps not possible or only to a limited extent (see page 92).

If EPG or teletext data are available, the Digital Recorder stores the title and additional information about each programme in the archive.

If additional languages are transmitted in DVB, these are recorded too. Selection of language as in TV mode.

DVB subtitles or teletext subtitles are recorded if the recording of subtitles has been activated in the Digital Recorder settings. Display language selection and subtitles as in TV mode. Teletext subtitles are not possible in devices with activated MHEG-5 software.

Start playback of your recordings from the archive.

If bookmarks were set in a recording, these entries are marked accordingly (▶). You can start playback so that the bookmarks are played as highlights (see page 88).

Comfortably select your favourite programme for recording from the EPG or teletext and watch the programmes later from the Digital Recorder's archive.

An automatic Delete Manager always ensures there is sufficient recording space for new movies (see page 82).

### • Sort titles

You can have the programmes displayed chronologically or in alphabetical order. You can therefore quickly find the recording you want to watch.

### • Rename/edit titles

You can change the title of a programme in the archive, if necessary.

### • Parental lock

Protect archive recordings from unauthorised access by using the parental lock.

### • Delete protection

Set the delete protection for a movie to prevent it from being deleted automatically by the Delete Manager.

### • Copy

Copy movies from the archive of the Digital Recorder with an offset to an external VCR / DVD recorder.

## Archive recording

► Please also read the instructions on page 92 concerning handling of encoded programmes.

You can playback a recorded programme from the archive at the same time as recording a TV programme into the archive. You can also play the same programme you are currently recording with a time shift.

- **Immediate recording**

Record interesting programmes directly into the DR archive with the **RECORD button**. With programmes watched with a time offset (see page 73) the current programme can be transferred to the DR archive. The programme is recorded from the beginning to the end of the time offset recording or to the end of the set recording time.

- **Timer-controlled recording**

Comfortably select your favourite programme for recording, from the EPG or teletext (programming via teletext is not possible for MHEG-5 stations). The Digital Recorder records up to 50 timer recordings - even in your absence. Watch the programmes later from the Digital Recorder's archive.

- **Serial recording**

You can conveniently programme serials which run daily, weekly or from Monday to Friday.

For devices with activated MHEG-5 software you can even let the TV set record series and split events automatically depending on the information provided by the broadcaster. A conflict manager (see page 82) will also automatically try to find alternate instances of conflicting recordings if signalled by the broadcaster (e.g. UK FreePlay).

- **Time shift viewing with archive recording**

If you have programmed recording and come home before it is finished, you can watch the movie with a time shift while the rest is still being recorded.

## Archive playback

All the recorded programmes can be selected in the archive and played. During archive playback, another programme can be recorded into the archive.

- **Fast forward and rewind**

Fast forward and rewind the movie at three different speeds (fast rewind not possible with HDTV).

- **Slow motion**

Watch the playback at four different slow motion speeds.

- **Fast navigation by jumping**

Jump backwards and forwards in the movie at the press of a button. The jump distance is adjustable (see page 75).

In addition, the function "Smart Jump" ensures that for each change in jump direction the jump distance is cut in half. This way you can quickly find a certain spot of the recording.

- **Bookmarks**

To find interesting scenes in a movie later, you can manually set the bookmarks. In addition, there are also automatically set bookmarks every time a broadcast is changed. You can jump to each of the bookmarks in succession at the press of a button.

- **Playing highlights**

For recordings with manually set bookmarks you can limit the playback only to the highlights. You then see the scenes 30 seconds before and after each set bookmark. If there is more than one bookmark the highlights are played one after the other.

- **Cut/Hide functions**

Cut out superfluous sections before and after a recorded programme. Set hiding marks around uninteresting sections to watch a movie without interruptions or to archive it on VCR/DVD-R.

- **Copying your recordings**

You should burn recordings that you want to save permanently on DVD or copy them on an external Loewe USB hard disk **Loewe MovieVision DR+**. Afterwards, you can delete the recording from the archive.

► Copying recordings, which originate from a CI Plus encoded station, is perhaps not possible or only to a limited extent (see page 92).

# Digital Recorder+

## Digital Recorder menu

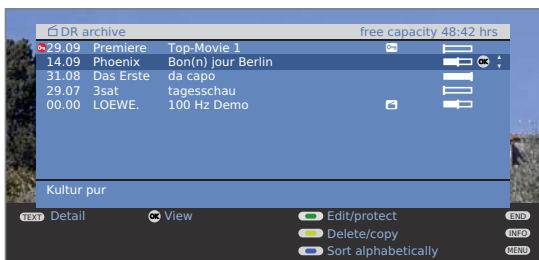
You can make a few settings in the **Digital Recorder menu** to adapt the Digital Recorder to your requirements.

### Call Digital Recorder menu

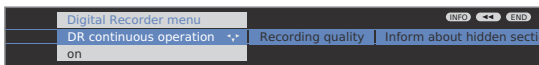


**Red button:** Call **DR archive**.

With MHEG-5 software: Press **ASSIST button** to call Assist+ menu, select **DR archive** and call with **OK**.



Call **Digital Recorder menu**.



- ◀ ▶ Choose a setting,  
▼ switch to the menu line below.
- ◀ ▶ Set or enter using the **numeric buttons** of the remote control.

### Explanation of the setting facilities:

- DR continuous operation** If DR continuous mode is switched on, the programme being watched is recorded permanently in the background. Factory setting: **on**.
- Recording quality** Adjust the recording quality for recording analogue programmes. This results in a change in the recording capacity. Factory setting: **high**.
- Inform about hidden sections** If hiding has taken place during an existing archive recording you can choose whether to be advised of this by a message or not. Factory setting: **yes**.
- Jump distance** For time shift viewing and for playing archive recordings you can set a jump distance (in minutes), so that you can jump forwards or backwards in the movie by pushing the buttons ◀◀ or ▶▶ briefly. Enter the time with the numeric buttons on the remote control (always enter two digits for 01 to 15 minutes). Factory setting: **04 min**.  
➡ The jump range can only be set between 1 and 4 minutes when Smart Jump is activated (menu setting **yes**).

**Smart jump** By using an intelligent jump function, you can quickly and easily find a certain point in the recording (with a time shift or in the archive). Every time the direction is reversed, when jumping, using the buttons ◀◀ or ▶▶, the jump distance is cut in half. See page 76 for more information on this application. Factory setting: **yes**.

**Serial recording tolerance** To avoid recording a serial episode more than once when it is shown several times a day, a tolerance time must be entered. The serial is then only recorded when it starts within the start time ± serial recording tolerance. Enter the time with the numeric buttons on the remote control (always enter two digits for 01 to 60 minutes).  
Factory setting: **+30 min**.

➡ Serial recording tolerance is ignored when recording a programme with auto time control (see page 82) in TV sets with activated MHEG-5 software.

**Record subtitles at DR continuous operation** Select here whether subtitles are to be recorded in continuous operation for DVB stations. Not possible in devices with activated MHEG-5 software. Factory setting: **no**<sup>(1)</sup>.

**Descrambling at DR continuous operation** (not with MHEG-5 software) The TV set can possibly already record decoded programmes in DR continuous operation that have been watched as time-shifted encoded programmes. Recording the programme directly into the DR archive saves you having to descramble it later. Factory setting: **no**.

### Setting the pre-record and post-record time

You can set a pre-record and post-record time for timer recordings made without VPS (analogue) or auto time control (DVB and MHEG-5). This reduces the risk of parts of the programme not being recorded because it starts earlier and/or finishes later.



Call **TV menu**.



- ◀ ▶ Choose **Recording**,  
▼ switch to the menu line below.
- ◀ ▶ Set **pre-record** or **post-record time**,  
▼ switch to the menu line below.



Enter the time with the **numeric buttons** (always enter two digits for 01 to 15 minutes for the pre-record time and 01 to 60 minutes for the post-record time). Factory setting: pre-record: **00 min**, post-record: **05 min**.

<sup>(1)</sup> for location of TV set DK, FIN, N or S: **yes**.

# Digital Recorder+

## TV viewing with time shift

The Digital Recorder continuous operation is switched on as the factory default setting. The TV programme you are watching is recorded automatically. The time shift is maximum approx. 3 hours.

The DR+ display lights up green. If the DR continuous operation is switched off, the DR+ display lights up white.

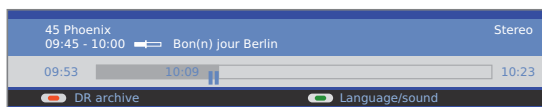
➡ Please also read the instructions on watching time-shifted television on page 73.

➡ Programmes with copy protection (e.g. Macrovision) cannot be watched with a time shift for legal reasons.

### Interrupt



Press **PAUSE button**.



The TV picture freezes and the drive display appears.

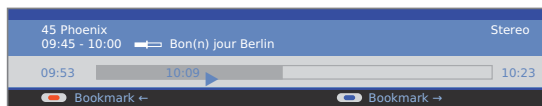
At the top you will see the number and name of the station if EPG or teletext data are available, in addition to the start and end of the current programme and the title of the programme.

On the left hand side of the bar you can see the start time for time shift recording. On the right hand side of the bar you can see the time at which the time shift recorder will be full (automatically extends by 30 minutes, up to a max. 3 hours). The grey bar indicates how much of the available recording time has been used up. The time displayed inside the bar is the time at which the Pause button was pressed.

### Continue (time shift viewing)



Press **PAUSE button** or **PLAY button**.



You can now watch the TV programme with a time shift from the time you first pressed the **PAUSE button**. The Playback symbol ▶ appears in place of the Pause symbol II .

### Jump to automatically set bookmarks

In time shift TV viewing, you can jump to automatically set bookmarks and to the beginning and end of the current recording. Grey bookmarks mark the beginning and end of broadcasts.

- Red button:** Jump back
- Blue button:** Jump forwards

### Switch to live picture



Press **STOP button**.

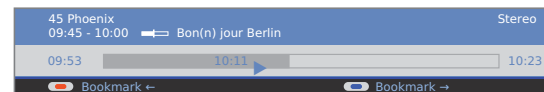
You see the station's live picture again.

### Jumping

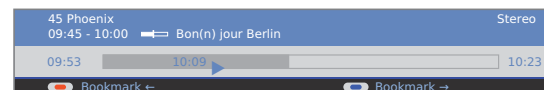
You can jump during time shift viewing by briefly pressing the buttons ◀◀ or ▶▶ in the jump distance set; this enables you to skip uninteresting sections quickly.



▶▶ Jump forwards

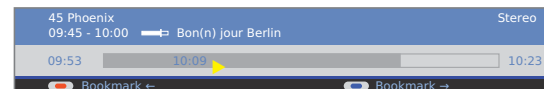


◀◀ Jump backwards



### Smart Jump

Smart Jump allows you to search quickly for certain scenes of a recording. The jump width is halved every time you change the jump direction. The jump width is doubled if you jump more than three times in the same direction (max. 8 min.).



- ▶ blue: Jump width corresponds to the jump width preset in the **Digital Recorder menu**.
- ▶ yellow: Jump width is less than preset in the **Digital Recorder menu** (e.g. after changing the jump direction).
- ▶ orange: Jump width is greater than preset in the **Digital Recorder menu** (e.g. after jumping three times in the same direction).

For instance, if you are looking for the beginning of a programme.



◀◀ Press repeatedly to jump back.

If you have jumped past the beginning of the programme, jump in the opposite direction:



▶▶ This jump in the opposite direction is only carried out for half the jump distance. Now jump forward using ▶▶ until you see the beginning of the programme.

If you have jumped past the start of the programme:



◀◀ Jump back again. In the process, the jump distance is cut in half again.

By halving the jump distance when changing direction again you can find your way to a specific place.

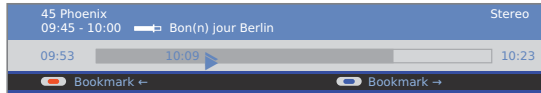
# Digital Recorder+

## Fast forward and rewind

During time shift viewing you can fast forward and rewind at three different speeds (when viewing HDTV rewind is not possible). Sound is not audible during winding.

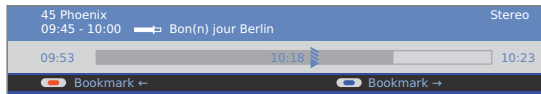


Press **▶▶** or **◀◀** for a little longer.



Increase speed: Press **◀◀** or **▶▶** several times briefly.

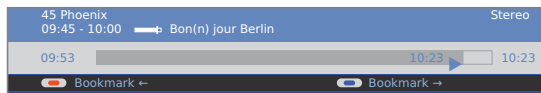
The speed increases every time you press the button until eventually switching back to the initial speed.



Playback begins automatically upon reaching the end of the recording. You are then about 10 seconds behind the live picture or when rewinding at the beginning of the time shift recording.



Press the **PLAY** button when you reach the point during rewinding from which you want to continue watching.

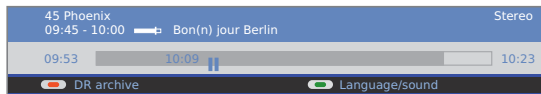


## Slow motion

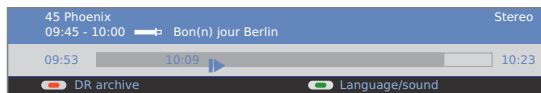
If Pause is active (freeze picture) you can play at four slow-motion speeds. Sound is not audible during slow motion. (When viewing HDTV slow motion backwards is not possible)



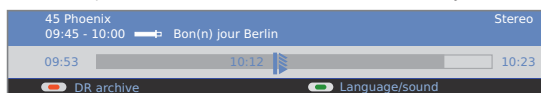
Press **PAUSE** button.



Press **▶▶** or **◀◀** briefly.



Increase speed: Press **◀◀** or **▶▶** several times briefly.



The speed increases every time you press the button until eventually switching back to the initial speed.

## Highlight function

You can mark interesting scenes in sports reports for example to watch these again specially at a later viewing.

You can set bookmarks while you are watching the live picture or viewing with a time shift.



To set the bookmark press the **PLAY** button for a little longer. The time shift recording that is already active in the background is converted into an archive recording. You see a message on the screen: **DR archive recording has been started**. Every time the **PLAY** button is pressed down again a little longer, a new bookmark is set.

Note: If no programme info is available from teletext or EPG the **Recording duration** menu appears after pressing the Play button for the first time. Select the desired recording duration and confirm using **OK** (see page 78).

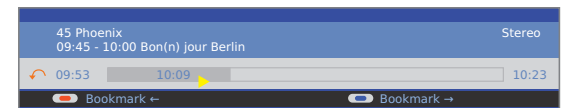
Recordings which contain manual bookmarks can be replayed as highlights. The chapter "Archive playback" describes how this works on page 84 and 88.

## Replay function

You can watch interesting scenes of sports reports again for example (only in live picture).



Briefly press the **button ◀◀** to repeat the scenes.



The set jumps back 40 seconds into time shift mode. The playback flag is yellow (Smart Jump active). If the Smart jump took you back too far, you can jump forward 20 seconds with the **button ▶▶**.

The live picture is displayed at the same time as a small PIP (not for HD stations). This PIP picture can be closed by pressing the **PIP** button without having to leave the time shift playback. Terminate the Replay function with the **STOP** button. Now you see the live picture again.

## Switch to a different station

The time offset recording is restarted when you change stations. The previous time offset recording is deleted.

# Digital Recorder+

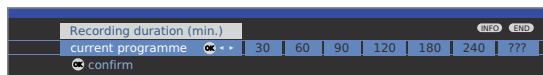
## Archive recording – Direct recording

- Please also read the instructions on page 92 concerning handling of encoded programmes.

You can convert the programme you are currently recording with a time shift into an archive recording.



Press **RECORD button** shortly.

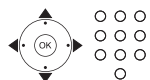
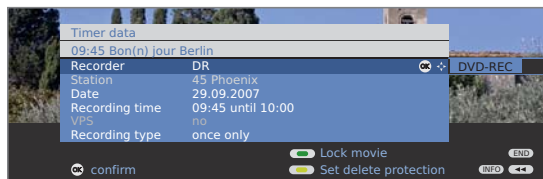


If you want to transfer the current programme to the archive, mark **current programme** (only if EPG or teletext data are available) or mark one of the given times or mark **???** and enter the recording duration with the numeric buttons on the remote control. Confirm with **OK**.

If the programme has been on for the beginning, it is adopted from the beginning, otherwise from the point in time you switched over to this station.

You can also transfer a programme which has already finished to the archive. Just rewind to the programme you want to archive and start recording with **current programme**.

After pushing the **OK button**, the menu **Timer data** is displayed.



Check the timer data, change if necessary and confirm with **OK**.

At the beginning of an archive recording the DR+ display will change from green to red.

See page 82 for explanations of the setting options in the **Timer data** menu.

During the archive recording, the bar showing the recording progress is red and the **REC** message is shown for a current archive recording.

- Scrambled programmes are recorded according to the presetting in the **Digital Recorder menu** → **Descrambling at DR continuous operation**. If **yes** is set, no other programme can be viewed during direct recording of a scrambled programme.
- If the presetting in **Descrambling at DR continuous operation** is changed while you are watching a scrambled programme, the time offset recording is restarted. The previous recording is deleted.

## One Touch Recording

(with MHEG-5 software only)

You can quickly record programmes into the archive.



Press **RECORD button** long: Archive recording starts.

Select recording duration as described on the left and confirm with **OK**.

The programme is recorded into the archive.

## Setting bookmarks during archive recording

During immediate recording or a running timer recording, you can set bookmarks at interesting sections (press the **PLAY button** for a little longer). You will see the message **A bookmark was set!**. This enables you to find this part of the recording quickly during playback. You can set up to 15 bookmarks per recording.

## Time shift viewing during archive recording

As described in the chapter "TV viewing with time shift," you can interrupt the programme with the **PAUSE button**. The recording process is continued. You can end the interruption by pressing the **PAUSE button** or the **PLAY button**. You are now viewing the archive recording with a time shift.

Jumping, fast forwarding and rewinding and slow motion all work as described for time shift TV viewing.

You return to the live picture with the **STOP button**.

## Watching other stations during archive recording

After you have started the recording, you can switch to another station. The recording process is continued in the background.

To switch back to the station you are currently recording, press the **PLAY button**.

- If an encrypted programme is recorded with the option **Descrambled recording** → **yes**, the CA module required for decoding is used for the recording. In this case you cannot watch any other encrypted programme.

## Viewing another movie from the archive during archive recording

After you have started the recording, you can also watch a programme you have already recorded.

To do this, call **DR archive** with the **red button**.

With MHEG-5 software: Call **Assist+**, select **DR archive** and call with **OK**.

Select the programme and start the playback with the **OK button**.

The recording process is continued in the background.

- If an encrypted programme is recorded with the option **Descrambled recording** → **yes**, the CA module required for decoding is used for the recording. In this case you cannot watch any other encrypted programme from the archive.

## Switching off the TV set during recording

You can switch off the TV to standby whilst recording. The recording is continued in the standby mode. The display on the set shows orange.

- Never switch the TV set off at the mains and do not pull out the plug of the TV set out of the socket. Otherwise the recording will be lost!

# Digital Recorder+

## Subtitles

► The recording of subtitles in DR continuous mode must be switched on in the Digital Recorder menu (see page 75).

If subtitles are transmitted, these are recorded.

Call subtitles in later playback:



**END:** Show status display (see right column)



**TEXT:** Call subtitle selection.



▲ ▼ Select desired subtitles.

**OK** Call subtitles.

## Stop recording early

You can end a current archive recording prematurely.



Press **STOP button**.



**OK** Stop recording.

The recording process is ended. The material recorded up to this point is saved on the hard disk and can be played back via the DR archive.

You can also end a running recording by deleting the entry in the timer overview or in the DR archive. See page 82 for further information.

## Status display during time shift and archive recording

By calling up the status display, the drive display of the Digital Recorder is faded in.

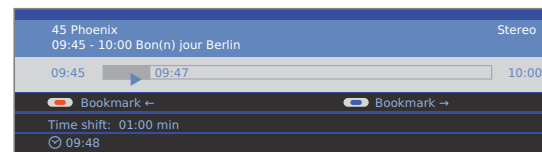


**END:** Show status display.

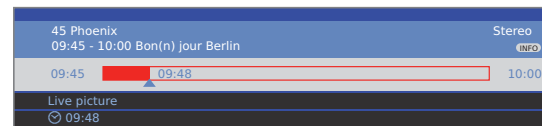


Use **INFO button** in case of MHEG-5.

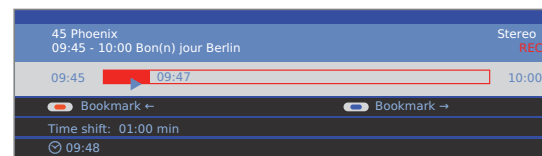
Display with time shift:



Display with live picture during an archive recording:



Display with time shift during an archive recording:





# Digital Recorder+

## Archive recording – Timer recording

► Please also read the instructions on page 92 concerning handling of encoded programmes.

You can programme timer recordings for the Digital Recorder conveniently using the EPG, teletext or manually. Up to 50 simultaneous timer entries are possible.

When you have programmed timer recordings, the TV set can only be switched off to the standby mode.

Never switch the TV set off at the mains and do not pull out the plug of the TV set out of the socket. Otherwise no timer recordings can be made!

If a timer recording is being carried out in the standby mode, then the display on the set shows orange and the DR+ display also shows red.

Programmed timers for the Digital Recorder are displayed in the timer overview. A red dot with a key symbol appears in front of the entry for scrambled recordings still to be descrambled. Moreover, instead of the programme name there is the code **DR→DR**.

**TIMER**

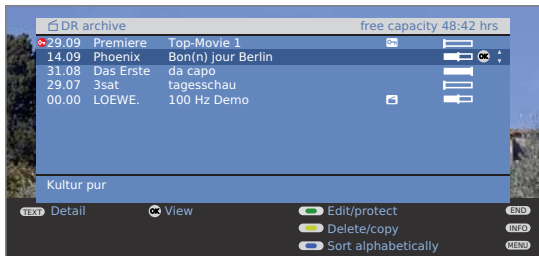
Call **Timer list**.



Completed timer recordings of the Digital Recorder are shown in the DR archive.

A red dot with a key symbol appears in front of the entry for scrambled recordings still to be descrambled.

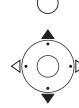
**Red button:** Call **DR-archive**.



► The specified **free capacity** refers to recordings of analogue and DVB programmes. A lot more memory space is required on the hard disk for HDTV programmes.

## Programming a timer recording with the EPG

EPG



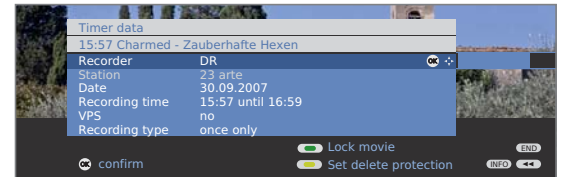
Call **EPG**.

▲ ▼ Flag the broadcast to be recorded.



**RECORD**

Press the **RECORD** button to programme the broadcast as a timer recording. The record dialogue box opens.



Check the timer data, change if necessary and confirm with **OK**.

See page 82 for explanations of the setting options in the **Timer data** menu.

In the EPG a red dot is set in front of the title of the programme. If a programme has been flagged with a red dot you can use the **RECORD** button to delete the programmed timer again. The red dot disappears.



# Digital Recorder+

## Programming a timer recording via teletext

(not for MHEG-5 stations)

Call the station on which you want to make a timer recording.



Call **teletext**.



Press the **RECORD** button. The first page of the programme preview is displayed. If not, define the preview page in the **Teletext menu** → **Settings** → **Preview page**.



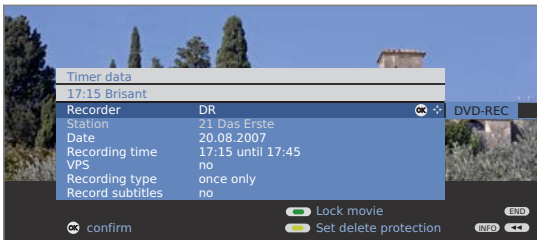
**Green button:** Select the programme preview page which contains the programme which you want to record.



▼ ▲ Flag the time at which the broadcast starts.



Press the **OK** button to programme the broadcast as a timer recording.



Check the timer data, change them if necessary and then confirm with **OK**.



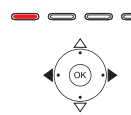
Check the recording time and date for broadcasts which last past midnight or begin the following day. The data from the teletext may not be complete.

See page 82 for explanations of the setting options in the **Timer data** menu.

## Programming a timer recording manually



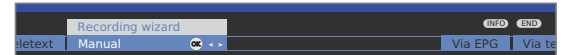
Call **Timer list**.



**Red button:** Call **New entry**.

◀ ▶ Select **Recording**.  
**OK** Call **Recording wizard**.

◀ ▶ Select **Manual**.

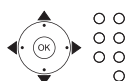
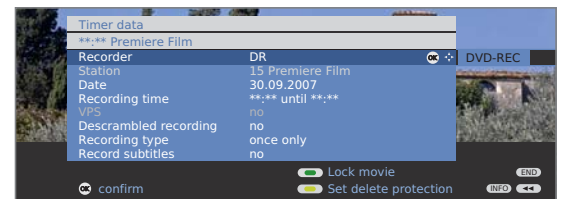


**OK** Start programming.



▲ ▼ ◀ ▶ Select the station or connection socket to be recorded.

**OK** Accept.  
The **Timer Data** menu is displayed.



◊ ◊ ◊ ◊ Check the timer data, enter the date and recording time in any case.  
**OK** Confirm.

# Digital Recorder+

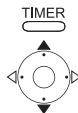
➔ If a DVD or video recorder was selected as a recording source, start playing the connected device manually from the beginning of the entered recording time.

## Explanations of the setting options in the Timer data menu

- Recorder Selection of the connected/built in recorder.  
Select **DR** for Digital Recorder in this case.
- Date Date of recording.
- Recording time Time of the recording.
- VPS Use VPS data for analogue stations, **yes / no**.  
(only available for some analogue stations)
- Auto time control Use automatic time control, **yes / no**.  
(only available for some DVB stations and when recording via EPG)
  - ➔ Auto time control must be set to **yes** to use UK FreePlay functionality.
- Descrambled recording You can specify here whether a programme from an encoded station should already be decoded during recording, if possible. If you select **yes**, you cannot watch another coded station during recording because the CA module is used for the recording.  
Hint: Select yes if you do not want to watch another coded station during recording. This saves the overnight decoding process.
  - ➔ For a **direct recording** (page 78) the presetting is taken from the **Digital Recorder menu** → **Descrambling at DR continuous operation** (page 75).
- Recording type Select **once only, Mon-Fri, daily** or **weekly**.  
In timer recordings via EPG, **Serial** can also be selected.
- Record subtitles Select whether broadcast subtitles are to be recorded.
  - ➔ For a **direct recording** (page 78) the presetting is taken from the **Digital Recorder menu** → **Record subtitles at DR continuous operation** (page 75).
- Lock movie Allow later playback of this recording with the parental lock by entering the access code only. Press **green button**.
  - ➔ If no access code has been defined in the **TV menu** under **Settings** → **Parental lock**, the text **Parental lock** appears in this position.
- Set delete protection Protect against automatic deletion by the Delete Manager.  
Press **yellow button**.

## Deleting programmed timer entries

Use this function in the timer overview if you want to delete recordings already programmed or end a running timer recording.

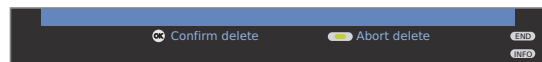


Call **Timer overview**.

▲ ▼ Mark the timer to be deleted.



 **Yellow button:** Delete recording.



**OK** Confirm.

➔ The letters of a timer currently active are red. If you delete this timer, the recording is stopped.

## The Delete Manager

The Delete Manager always makes sure there is enough memory space on the hard disk for new recordings.

When the capacity of the hard disk is almost exhausted the old recordings are deleted.

Recordings which have been protected with a delete protection (see page 90) are not deleted by the Delete Manager. You can delete these recordings manually.

In order to prevent the loss of data we recommend that important recordings are copied to a video cassette or to a writable DVD.


Delete the recordings from the Digital Recorder after copying.

Loewe is not liable for data loss from the Digital Recorder's hard disk.

## Record conflict

If you want to programme a new recording which overlaps with a saved timer, the **Record conflict** dialog box opens. Here you define whether only one or both recordings are to be made. If you decide for both, you have to state which of the two programmes is to be recorded fully.

Other ways of solving this recording conflict:

 **Green button:** Change the timer data of the individual programmes.




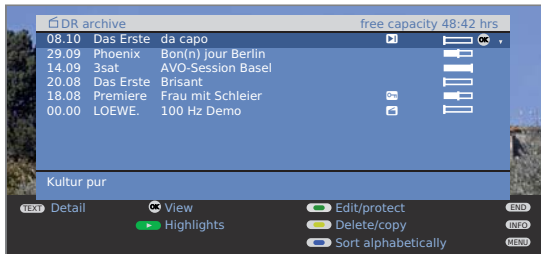
**END button:** Reject new timer. The older timer entry is retained.

# Digital Recorder+

## Archive playback

You can find a directory of your recordings in the **DR archive**. You can start playback, delete, copy or decode recordings from this list. Using **Edit/protect** you can change the name of an archive and set or remove a delete protection.








 **Red button:** Call **DR archive**.  
(for MHEG-5 **ASSIST** button).



 **Blue button:** Switch between alphabetical and time sorting.

The progress bar shows you how much of the recording has been watched. If other programme data is available from the EPG or teletext these are shown below the archive list for the entry just flagged. Other information about the recording can be called with the **TEXT** button, if this is offered.

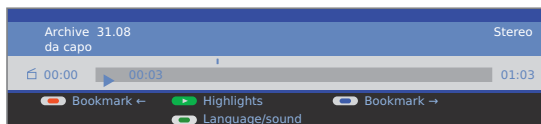
### Explanations of the symbols in the DR archive

-  Recording with manually set bookmarks.
-  Recording with set delete protection.
-  Recording with set parental lock.
-  Coded recording.
-  CI+ coded recording.
-  Red dot at the beginning of the line: Recording is played over/copied (see page 87, "Copying recordings").
-  Red dot with key symbol at the beginning of the line: Descramble recording (see page 88, "Descramble scrambled recording").

### Playing from the DR archive



- ▲ ▼ Select the recording.
- OK Start playback.



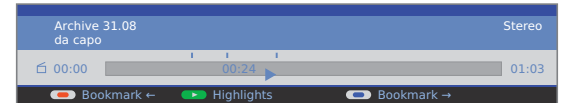
► The CA module with Smart Card must be plugged in when playing recordings which are still coded.

## Setting bookmarks

While playing an archive recording, you can set bookmarks by pressing the **PLAY** button for a little longer. You will see the **bookmark set** message. The drive display is then faded in and you will see the set bookmark above the bar for the playback. You can set up to 15 bookmarks per recording. This makes these places easy to find later.



**PLAY** button (press for a little longer): Set bookmark.



► Automatically set bookmarks are grey. Manually set bookmarks are blue.

## Jumping to bookmarks



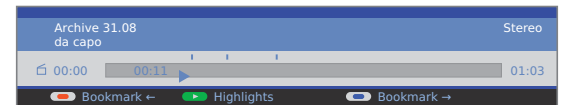
**END:** Show the drive display during archive playback.



**Blue button:** Bookmark forwards.



**Red button:** Bookmark backwards.



## Delete individual bookmarks

   Jump with the **red** or **blue** button to the manually set bookmark to be deleted.



Press **PLAY** button for a little longer, the bookmark is deleted.

# Digital Recorder+

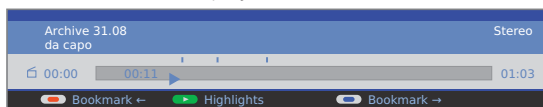
When playing coded recordings, some of the following functions are restricted.

## Playing highlights

If there are manually set bookmarks in the current playback, they can be played as highlights. 30 seconds before and after the set bookmark are played. The highlights are numbered consecutively and shown continuously. The playing of highlights can be terminated by pressing the **STOP button**.

**END**

**END:** Show status display.



Press the **PLAY button** for **Highlights**.



Start playing highlights. As long as this drive display is shown, you jump to the next highlight with the blue button and the red button jumps to the previous highlight. You can also jump to the next highlight by pressing the **PLAY button** again. This function is also available if no drive display is shown. The playing of highlights can be terminated by pressing the **STOP button**.

Further information concerning highlight playback can be found on page 88.

## Jumping

You can jump by briefly pressing the **buttons** **◀** or **▶**.



**▶▶** Jump forwards.



**◀◀** Jump backwards.



Setting the jump distance: see page 75.

## Smart Jump

Smart Jump allows you to search quickly for certain scenes of a recording. The jump width is halved every time you change the jump direction. The jump width is doubled if you jump more than three times in the same direction. You will find more about this on page 76.

## Fast forward and rewind

During time shift viewing you can fast forward and rewind at three different speeds (when viewing HDTV rewind is not possible). Sound is not audible during winding.

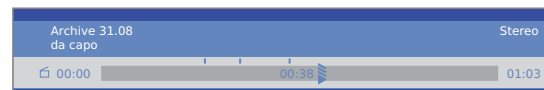


Press the **button** **▶▶** or **◀◀** a little longer.



Increase speed: Briefly press button repeatedly.

The speed increases every time you press the button until eventually switching back to the initial speed.



Press the **PLAY button**, when you have reached the position where you want to continue viewing.



You will see a freeze frame when the start or end of the recording is reached during winding.

# Digital Recorder+

## Pause (freeze picture)



**PAUSE button:** Switch to freeze picture.



Continue playback: Press



**PLAY button** or



**PAUSE button.**

## Slow motion

If Pause (freeze picture) is active, you can play at four slow-motion speeds. Sound is not audible during slow motion.



Press **PAUSE button.**



Press **▶▶** or **◀◀** briefly.



Increase speed:

Press button several times briefly.



The speed increases every time you press the button until eventually switching back to the initial speed.

## Deleting parts of the recording

You can delete parts of an archive recording up to the beginning and up to the end.



**PAUSE button:** During archive playback press at the point from which, to the start or to the end, the archive recording is to be deleted.

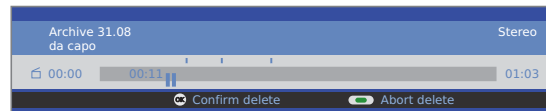


Press the **yellow button** for **Delete/hide**.



**Red button:** Delete from here to start.

**Green button:** Delete from here to end.



**OK** confirms the deletion.

**Red or green button** cancels the deletion.



In our case, 11 minutes were deleted so that the remaining length of the recording is only 52 minutes.

# Digital Recorder+

## Hiding sections of the recording

You can hide sections of an archive recording. For future playback and when copying to a DVD or video recorder, the hidden sections are skipped.



Press the **PAUSE button** at the point in the archive playback from where the hiding should start.



**Yellow button:** Call **Delete/hide**.



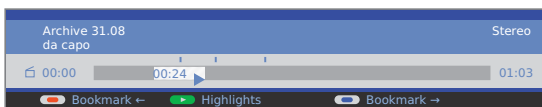
**Yellow button:** Set the start of the section to be hidden.



Press **PLAY button** or **PAUSE button** to continue playback.



**Yellow button:** Press the **yellow button** when you want to end hiding.



The hidden section of the recording is shaded in the bar. If you start playback again before the beginning of the hidden section, the hidden section is skipped. If the setting in the **Digital Recorder menu** → **Inform about hidden sections** is set to **yes**, you will see the message **A faded area was skipped**. With the blue button you can show the hidden section again continuously.

## Deleting bookmarks

You can delete all manually set bookmarks.

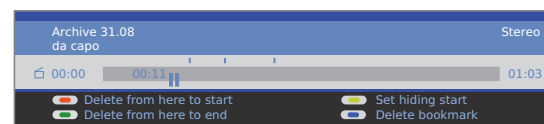
Manually set bookmarks are blue, automatically set bookmarks are displayed in grey.



Press **PAUSE button** during archive playback.



**Yellow button:** Call **Delete/hide**.



**Blue button:** Delete manually set bookmarks.



Press **PLAY button** or **PAUSE button** to continue playback.




Automatically set bookmarks are not deleted. In addition, you have the option of deleting the bookmarks via **DR archive** → **Delete/copy** (see page 89).

# Digital Recorder+


## Copying recordings to a connected recorder

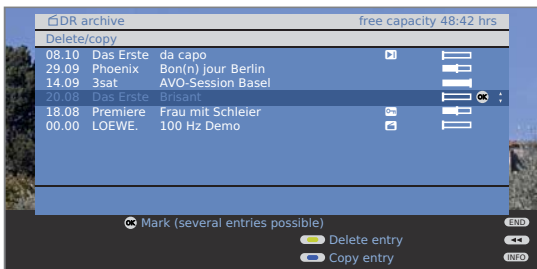
This is simple with a Loewe VCR or DVD recorder equipped with Digital Link or Digital Link Plus and with units from other manufacturers equipped with a similar system (according to protocol 50).

 **Red button:** Call **DR archive**.  
(for MHEG-5 **ASSIST** button)



▼ ▲ Flag the recording to be copied.

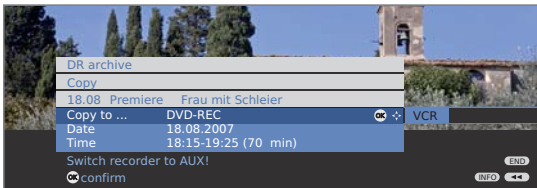
 **Yellow button:** Call **Delete/copy**.



▼ ▲ Select others if necessary.  
**OK** Confirm.

▣ Titles to be copied are displayed in blue.

 **Blue button:** Call **Copy entry**.




◀ ▶ Select recorder in Copy menu.  
Should be copied over later, change date and time.  
**OK** Confirm.

The DR archive is displayed again. You will see a red dot for the programmed copying in front of the date.


▣ You cannot watch a DVB station whilst copying. The TV set can, however, be switched off to the standby mode. It is best to copy at night when the TV is not in use.

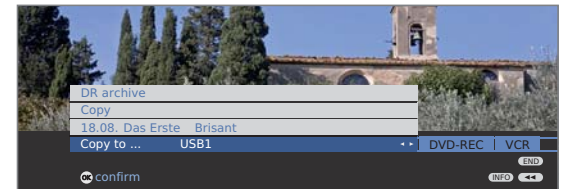
## Copying recordings to Loewe MovieVision DR+

You can also copy programmes to a Loewe USB hard disk and archive these programmes or play back recordings on another Loewe LCD TV set, even if they are not equipped with an integrated digital recorder.

 **Red button:** Call **DR archive**.  
(for MHEG-5 **ASSIST** button).

Select titles that you want to transfer as described in the left column.

 **Blue button:** Call **Copy entry**.



◀ ▶ Select **USBx** in the Copy menu.  
**OK** Start copying.

- ▣ The transfer to Loewe MovieVision DR+ disk runs in the background at a substantially higher speed. Contrary to **Copying recordings to a connected recorder** (see left column), there are no selection restrictions here regarding the stations. You see a screen message, when copying has finished.
- ▣ **Do not switch** the TV set **off** when transferring to the external hard disk!

# Digital Recorder+

## Delete programmed descrambling

You can delete the programmed descrambling of scrambled recordings at any time.



DR archive is displayed.

▼ ▲ Mark the desired programme (red dot with key symbol).



**Yellow button:** Call **Delete/descramble**.



**Blue button:** **Cancel descrambling**.

The red dot with key symbol and the entry in the timer list are deleted.

## Descramble scrambled recording

You can start descrambling scrambled recordings manually at any time<sup>(1)</sup>. The module with Smart Card must be inserted for this. Descrambling should be done as soon as possible because the probability that the code may become invalid increases with the time between recording and descrambling.

Proceed similarly to copying from the archive:



DR archive is displayed.

▼ ▲ Mark recording to be descrambled.

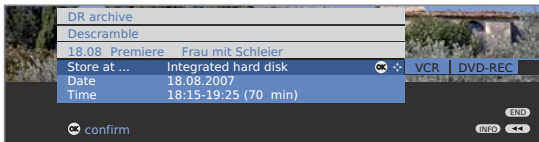
Scrambled recordings are marked by in front of the bar.



**Yellow button:** Call **Delete/copy**.



**Blue button:** Call **Descramble entry**.



◀ ▶ Select **Integrated hard disk** in Descramble menu. Determine date and time of the descrambling.

**OK** Confirm.

You see the DR archive again. You will see a red dot with key symbol for the programmed descrambling in front of the date.

➤ No other DVB station can be watched during descrambling. But the TV set can be switched off to standby mode. It is best to descramble at night when the TV is not in use.

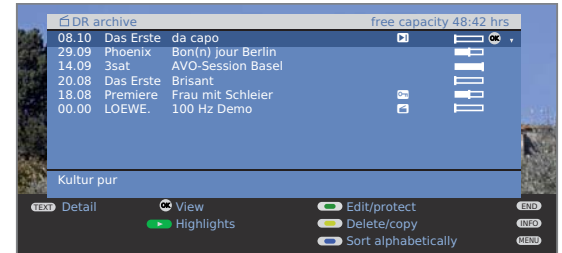
➤ You will find the recording descrambled in the DR archive after descrambling (without a before the bar).

➤ The time and date of the descrambling can be changed in the timer list (see page 80).

## Viewing highlights from the archive



**Red button:** Call **DR archive**.  
(for MHEG-5 **ASSIST** button)



▼ ▲ Flag a recording with a bookmark.

Recordings with bookmarks are flagged with .



Press **PLAY** button for viewing **Highlights**.

## Deleting recordings from the archive

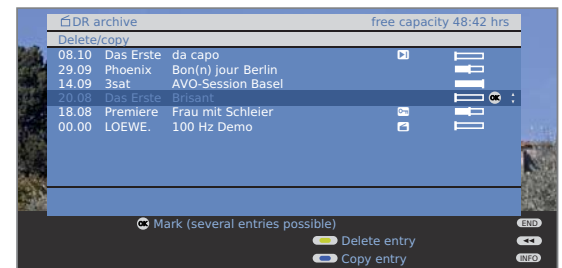


DR archive is displayed.

▼ ▲ Flag the recording to be deleted.



**Yellow button:** Call **Delete/copy**.



▼ ▲ Select others if necessary.  
**OK** Confirm.

Titles to be deleted are displayed in blue.



**Yellow button:** Call **Delete entry**.



**OK** Confirm delete.  
The recording is deleted.

The DR archive is displayed again.

<sup>(1)</sup> Please also read the instructions on page 92 concerning handling of encoded programmes.




# Digital Recorder+


## Deleting bookmarks

DR archive is displayed.



▼ ▲ Select the recording for which you want to delete the bookmarks.

Recordings with manually set bookmarks are flagged with  in front of the bar.

 **Yellow button: Call delete/copy.**



▼ ▲ Select others if necessary and confirm with **OK**.

The selected titles are displayed in blue.

 **Green button: Delete bookmark.**


All of the manually set bookmarks are deleted. Automatically set bookmarks are not deleted.

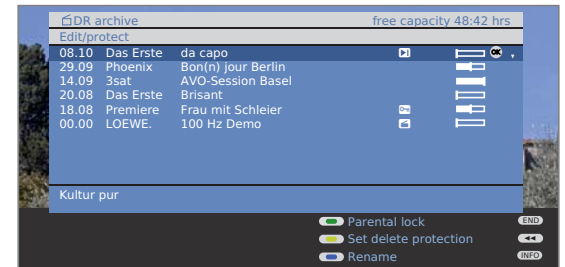
## Changing the title of an archive

DR archive is displayed.



▼ ▲ Select the title to be changed.

 **Green button: Call Edit/protect.**




 Press the **blue button** for **Rename**.

Underneath the first letter of the title, you will see a line which indicates the current input position for the letter.

- ▶ Move input position right.
- ◀ Move input position left.



Enter the letters in sequence using the **numeric buttons** on the remote control (like on a mobile phone keypad).

 **Green button: Switch between capital letters and small letters.**



**OK** Conclude the entry.  
This saves the change permanently.

# Digital Recorder+

## Locking/unlocking a movie (Parental lock)

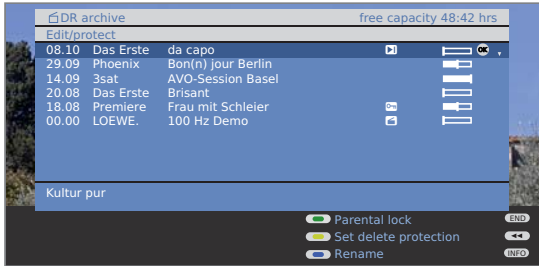
You can lock movies that your children are not permitted to view, for instance. Viewing is only possible if the access code is entered.

⇒ DR archive is displayed.

⇒ ⇒ ⇒ ⇒ **Green button:** Call **Edit/protect**.



▼ ▲ Mark the title that is to be locked.



⇒ ⇒ ⇒ ⇒ Press the **green button** for **Parental lock**. The system requests you to enter your access code (PIN).



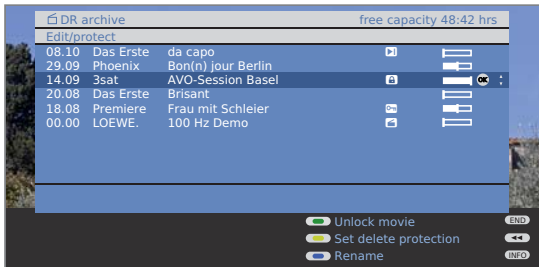
1 2 abc 7 pqrs 8 tuv Enter your access code with the numeric buttons of the remote control.




⇒ The first time you define an access code remember it well. Confirm the new access code with **OK**.

The DR archive opens again.

⇒ ⇒ ⇒ ⇒ **Green button:** **Lock movie**.




You can mark additional titles and lock or unlock them respectively using the green button. A lock symbol  appears in front of the bar when the lock is activated.

## Viewing a locked movie

⇒ ⇒ ⇒ ⇒ **Red button:** Call **DR archive**.  
(for MHEG-5 **ASSIST** button).



▼ ▲ Flag a locked movie and press **OK button** for viewing.

⇒ The titles of the locked movies are not seen and are marked with the symbol .

The system requests you to enter your access code (PIN). After entering the access code the playback of the movie starts.

## Setting/cancelling delete protection

To prevent important recordings from being deleted automatically by the Delete Manager, you should set a delete protection. Cancel the delete protection again after copying to a video cassette or DVD.

⇒ DR archive is displayed.

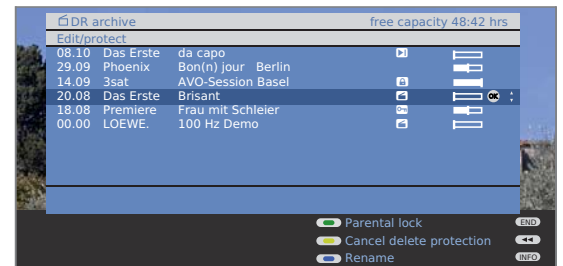
⇒ ⇒ ⇒ ⇒ **Green button:** Call **Edit/protect**.



▼ ▲ Select the title for which you want to set/cancel a delete protection.

⇒ ⇒ ⇒ ⇒ **Yellow button:** **Set/Cancel delete protection**.

You can select other titles and **set** or **cancel delete protection** with the **yellow button**.



The symbol  appears in front of the bar when the delete protection is activated.

# Digital Recorder+

## Formatting the hard disk

You can format the integrated hard disk of the TV set, e.g. if hard disk problems occur or if you want to delete the hard disk data quickly and without complications.

### Attention!

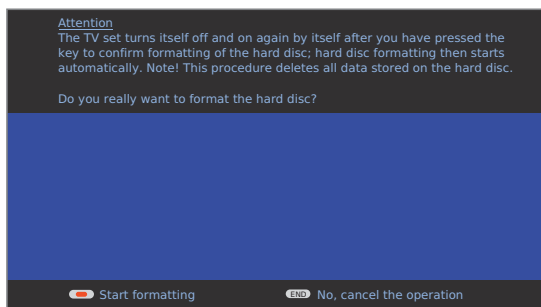
Formatting of the hard disk deletes **all** the data saved on it!

MENU

Call **TV menu**.



- ◀ ▶ Select **Settings**,  
▼ switch to the menu line below.
- ◀ ▶ Select **Miscellaneous**,  
▼ switch to the menu line below.
- ◀ ▶ Select **Format integrated hard disk**,  
**OK** activate.



    **Red button: Start formatting.**

⇒ First, the TV set is restarted. Then, formatting is carried out.

END

**END:** Cancel the operation.

# Digital Recorder+

## Encrypted stations – DVB Common Interface standard (CI)

- ➡ Handling of the CA-module see page 42.
- ➡ In TV sets with activated MHEG-5 software, programmes from scrambled stations are always descrambled automatically during recording.

If a programme has been recorded coded, the decoding process is carried out automatically the next night in the standby mode. Please note that the TV set may not be switched off at the mains overnight and that the CA module with SmartCard must be inserted in the CI slot of the TV set. If the recording is not decoded fairly soon after decoding, it may not be possible to decode it at all. The longer the time between recording and decoding, the greater the probability that the code is no longer valid.

- ➡ Scrambled hard disk recordings appear in the timer list until they are descrambled (page 80).
- ➡ You can also start decoding manually (see page 88).

You can have programmes from scrambled stations descrambled already in DR continuous mode. This saves you having to decode directly recorded scrambled programmes later. An appropriate CA module with SmartCard must be inserted in the TV set's CI slot for this.

- ➡ Your programme provider may not support later (time offset) descrambling. Please contact your provider if you have any questions.
- ➡ The playback of encrypted programmes is strongly dependent on which CA module is used. The playback of encrypted recordings may sometimes not be possible, or only to a limited extent.  
Hint: When possible, record unencrypted programmes or unencrypt them as soon as possible.
- ➡ Selection possibilities in the CA module menu (see page 42) and performance capability of your CA module depend on the type of module used and the installed software. Consult the manufacturer of the module if you have any questions.

## Encrypted stations – DVB Common Interface Plus standard (CI Plus)

- ➡ Handling of the CA-module see page 42.

CI Plus is an advanced development of the DVB Common Interface Standard. CI Plus slots are in principle downward compatible to the previous CI standard, i.e. CA modules and Smart Cards according to the past CI standard can continue to be used in CI Plus slots, as far as the programme provider permits this.

The regulations of the past standards (see left column) likewise apply to CI Plus. There are however further additional regulations.

Programme providers, who use the CI Plus standard, can assign different rights for their broadcast programmes. For instance, the programme provider can restrict or completely prevent recording or later watching of an encoded programme. If there are such regulations, these also apply to time-shifted watching of television programmes.

A screen message informs you of this fact, if you would like to record such a programme. Recording is carried out in such a case (an appropriate entry is displayed in the DR archive), later watching of the programme is however not possible at all or only for a limited period (e.g. 10 days). The provider can also prohibit later decoding of a recorded encoded programme.

Furthermore, the programme provider can prevent external copying of protected programmes, e.g. on a DVD recorder (also after possible decoding).

It could be necessary to enter the parental protection PIN of the CA module when programming the data, if you want to record a CI Plus protected programme, which has been protected against viewing by minors. The secret number of the TV set is required for watching the programme later.

The appearance of the CA module menu of CI Plus (see page 42) can deviate from the normal appearance of the TV menu.

# Remote control – MediaNetwork functions

Musik  
 Finja  
 Avenue  
 Peace  
 0:44/05:03  
 12:34 Raum 1

TV STB DVD RADIO  
 TIMER HOME AUDIO ROOM

1 2 abc 3 def  
 4 ghi 5 jkl 6 mno  
 7 pqrs 8 tuv 9 wxyz

EPG 0 AV PIP  
 ASSIST  
 TEXT MENU END INFO  
 +V P+  
 OK  
 -V P-

LOEWE.

Enter a static IP address/Subnet Mask.....(page 97)  
 With alphabetical sorting: search by initial letter.....(page 98)

Media overview: Back to media selection.....(page 94)  
 Media selection: Exit MediaNetwork.....(page 98)  
 PHOTO: Show/hide screen information.....(page 101)  
 VIDEO: Show status bar.....(page 103)

Show Device Information.....(page 107)  
 Information on multimedia file.....(page 101, 103, 105)

**P+/P-** Change page up/down.....(page 100, 102, 104)

Adopt selection.....(page 94)  
 In the picture overview: Full screen mode on/off.....(page 101)

Delete last digit of IP address/Subnet Mask.....(page 97)  
 Change view.....(page 98)  
 MUSIC: Random on/off.....(page 105)  
 PHOTO: Zoom picture.....(page 101)

Go to page.....(page 98)  
 VIDEO: Repeat.....(page 103)

PHOTO / MUSIC: Next file.....(page 101, 105)  
 VIDEO: Fast forwards.....(page 103)

Stop playback/slide show.....(page 101, 103, 105)

Pause playback/slide show.....(page 101, 103, 105)

(page 97) .Enter separation points for IP address/Subnet Mask (page 98) ..... Select source / media server

(page 94) ..... Go to Assist+ menu

(page 99) ..... Go to MediaNetwork-Menu

(page 101) ..... Select object/go to menu item  
 ..... PHOTO: Rotate picture

(page 98) ..... Order by ...  
 (page 105) ..... MUSIC: Repeat

(page 105, 106) ..... Screen off/on  
 (page 96, 97) ..... Search for server/router  
 (page 96, 97) ..... Delete WLAN key/IP address/Subnet Mask

(page 94) ..... In the media overview: One level back  
 (page 101) ..... PHOTO: Previous file  
 (page 103) ..... VIDEO: Rewind  
 (page 105) ..... MUSIC: Previous title  
 (page 101, 103, 105) ..... Start/continue playback/slide show

# MediaNetwork

## About MediaNetwork

Your Loewe TV set is equipped with the Network Mediaplayer. This enables you to play multimedia contents (photos, music files, videos), which are provided by a media server in your home network (see also page 107). The Network Mediaplayer can play data from different types of memory media (e.g. PCs, Network Attached Storages (NAS), internet radio), depending on the type of media server used.

When the internet connection is correctly set up, it is also possible to receive internet radio directly via the TV set (without media server) (see from page 106).

You can connect your TV set either **wired** (Ethernet, PowerLine) or also via a **wireless radio connection** (WLAN) to your home network. The TV set has wireless connections via an internal WLAN antenna. You will find connection examples on page 95 on the right.

The Network Mediaplayer supports UPnP AV standard. You will find more detailed information in the technical data on page 113 and in the glossary from page 117.

All photos, albums and album graphics shown in these operating instructions are just examples.

## Help for problems with home network

Because of the wide variety of configurations of home networks, Loewe cannot provide support for PC hardware and software or network components.

For support with configuration of and maintaining network connections, storage media and network devices, such as routers (positions ③, ④ and ⑥ in the connection examples on page 95) please contact the administrator of your network and/ or the specialist retailer.

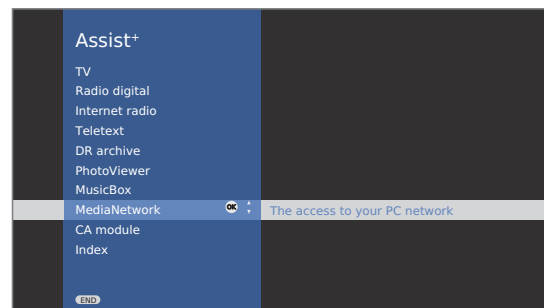
## Access to the MediaNetwork

Start the MediaNetwork using the Assist+ menu.



Go to Assist+ menu.

▲ ▼ Mark **MediaNetwork** or **Internet radio** (see page 106), **OK** call.



## Selection of menu items



Use the **arrow buttons** ▲ ▼ ◀ ▶ to move the marker on the user interface.

Use the **OK button** to select or adopt the object you have currently marked.



Use the **◀ button** to go back up a level respectively.



With the **END button** you return from any item in the menu overview to the media selection (page 98).



This screen symbol shows you that the required operating function is currently not available.

## Exit MediaNetwork



Go to Assist+ menu and select another function (see above).



Or:  
Press **TV button** to change to the corresponding type of operation.



Or:  
Press **END button** in the media selection (page 98) to change to the last previously active type of operation (TV, radio).

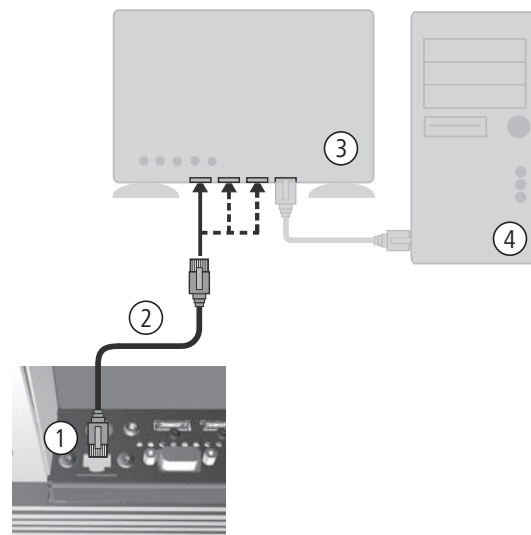
# MediaNetwork

## Connecting TV set and home network

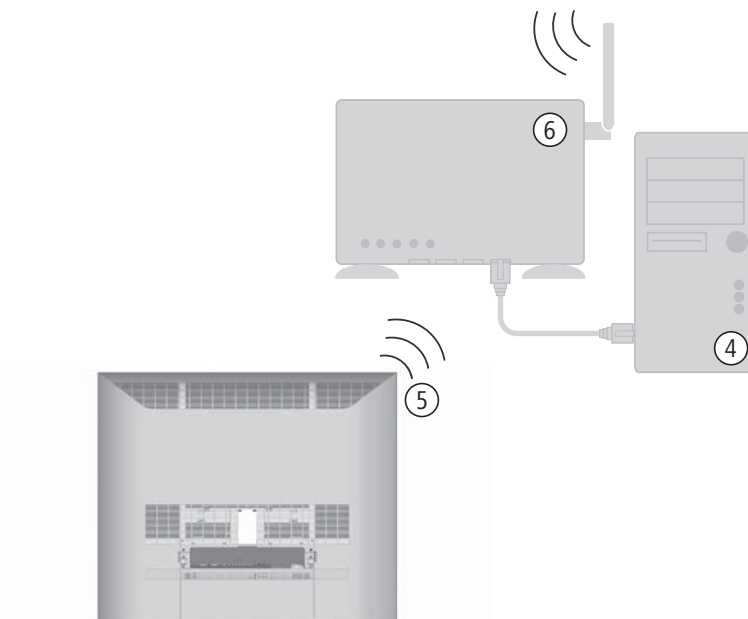


- ① Network socket on Loewe TV set
- ② Wired connection between TV set and home network with a network cable (available from specialist retailers)
- ③ LAN switch/router
- ④ Home server, e.g. PC
- ⑤ WLAN antenna inside device
- ⑥ WLAN router

## Example of wired connection



## Example of wireless connection



# MediaNetwork

## Initial installation

The first time MediaNetwork is called up, initial installation is started.

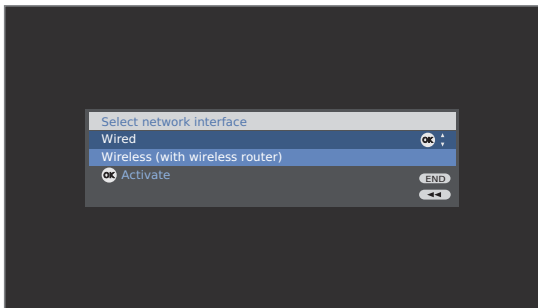
### Select network interface

Here you enter whether you want to connect your TV set **Wired** via cable or **Wireless (with wireless router)** to your home network.

You will find connection examples on page 95.



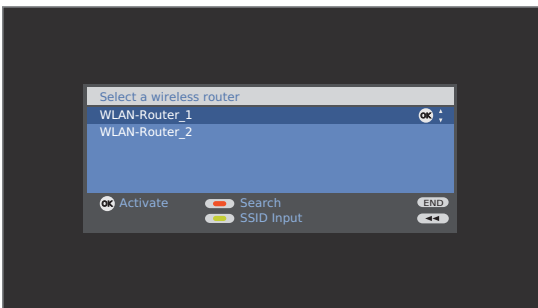
- ▲ ▼ Select network interface.
- OK Activate.



- ➔ If you select **Wired** then initial installation is continued with the menu item **Select IP Address Assignment Method** (page 97).

### Select wireless router

If you have selected **Wireless (with wireless router)**, then the TV set starts to search for wireless routers.

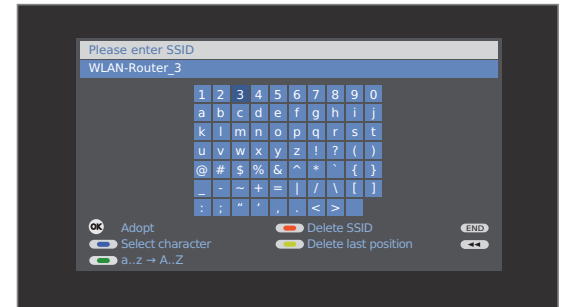


- ▲ ▼ Select required WLAN router.
- OK Activate.



As soon as ◀◀ is displayed, you can go back one installation step by pressing this button.

- ▶▶▶▶ If your router is not found the first time, then you can press the **red button** to **Rescan** for routers. If there are any problems making a wireless connection, it can help to install the additional antenna on the TV set (see page 95, illustration above left). Please also refer to the information on wireless connections on page 111.
- ▶▶▶▶ If your router is not recognised or the SSID of your home network is concealed, you can enter the SSID manually after pressing the **yellow button**. A screen keyboard appears to enter the SSID.



- ◀ ▶ ▲ ▼ Mark characters.

### Function of coloured buttons:

- Blue:** Select character.
- Yellow:** Delete last position.
- Red:** Delete complete SSID from the input line.
- Green:** Switch from small to capital letters and vice versa.

### Enter WLAN password

If your network has an encryption then it is necessary to enter the password that allows access to the network. A screen keyboard will appear to enter the password (see above).



#### OK Adopt Password.

- ➔ Umlauts (German characters ä, ö, ü) are generally not supported.
- ➔ If you do not know the WLAN key, contact your network administrator.
- ➔ Supported encryption types: page 113.

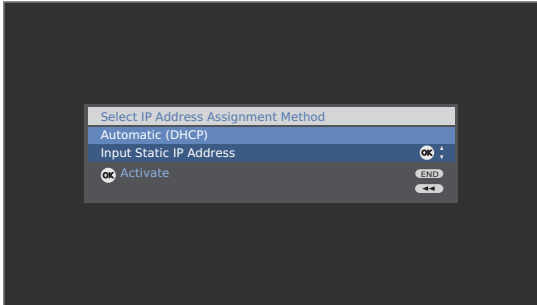


# MediaNetwork

## Select IP Address Assignment Method



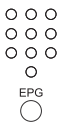
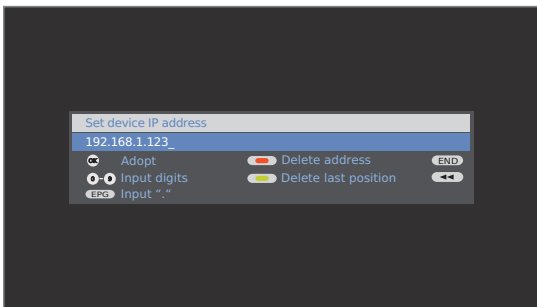
▲ ▼ Select IP Address Assignment Method.  
OK Activate.



**Automatic (DHCP):** IP addresses are automatically issued by a DHCP server on your home network.

➡ A DHCP server has to be set up on a device on the network (e.g. WLAN router).

**Input Static IP Address:** IP addresses are entered manually.



**Digit buttons:** Input digits of IP address.

**EPG:** Enter dots.

   **Function of coloured buttons:**

**Yellow:** Delete last position.

**Red:** Delete address.

**OK:** Adopt IP address.



Proceed similarly with the subsequent entry of the further IP addresses of Subnet Mask, Gateway and DNS server.

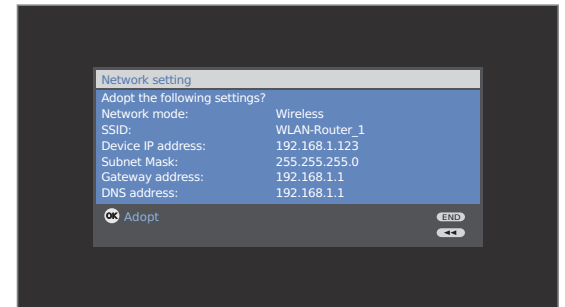
## Network setting



Afterwards you will see a summary of the settings.

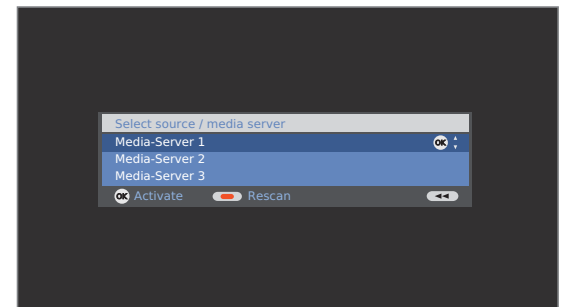
**OK** Adopt settings.

Backwards step by step for changes.



## Select Server

Lastly, select the media server from which you want to draw the data.



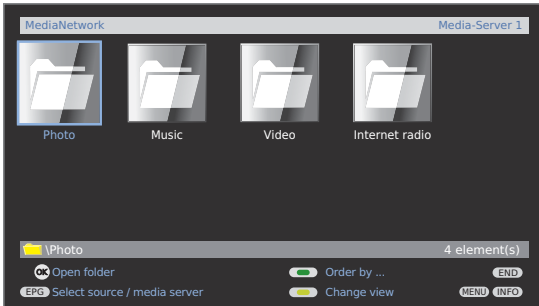
▲ ▼ Select media server.  
**OK** Activate.



If your required media server should not be found the first time, then you can press the **red** button to **Rescan** for media servers.

# MediaNetwork

## Media selection



MediaNetwork starts with the media selection. Select the media type you want.

### Select media type



- ◀ ▶ Select required media folder,
- OK confirm and go to the respective overview.

**Photo operation:** see page 100.  
**Video operation:** see page 102.  
**Music operation:** see page 104.  
**Internet radio:** see page 106.

### MediaNetwork-Menu



**MENU:** Open **MediaNetwork-Menu** (see page 99).

### Exit MediaNetwork



**END:** Exit MediaNetwork for last previously active mode (TV, Radio).

## Function of buttons in the media selection



### Green button: Order by ...

Change order objects displayed (folders or files).

➔ The sorting options available depend on the media server that you are using.

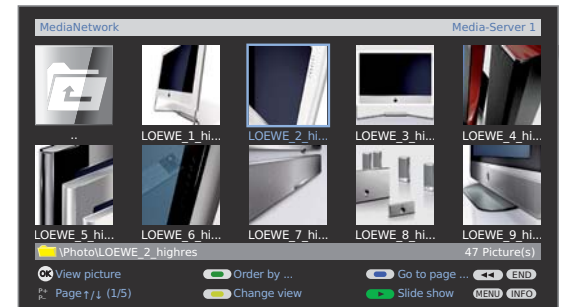


➔ With alphabetical sorting, the search can be carried out with the number buttons of the remote control by initial letter (depending on the media server).



### Yellow button: Change view

Switches between preview and list view:



Example: Photo operation, preview



Example: Photo operation, list view



### Blue button: Go to page ...

Alternatively to going through pages you can also go directly to the individual pages on the overview. On the **Go to page ...** overview the first title on each page respectively is shown.

➔ Only available when there are more items than can be displayed on one screen page.

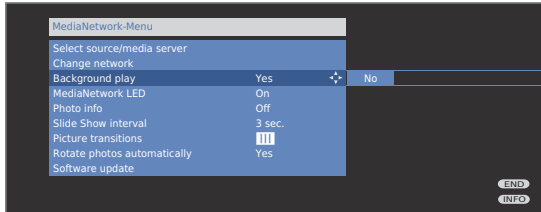
➔ The number of pages depends on the view selected (preview or list). You can see the number at the bottom on the left.



**EPG:** Select another media server/source.

## MediaNetwork-Menu

You can make a few settings in the **MediaNetwork-Menu** to adapt MediaNetwork to your requirements.



▲ ▼ Select menu item.

◀ ▶ or

**OK** Adopt settings.

INFO

Call **Device Information** (see page 107).

END

Leave MediaNetwork-Menu and adopt settings.

### Explanation of setting options in the MediaNetwork-Menu

Select source/ media server	You can select your desired media server in the current network, e.g. if several servers are active in the network, or change to internet radio.
Change network	Here you can designate a new network, e.g. change from <b>wired</b> to <b>wireless</b> .
Background play	Select <b>Yes</b> to continue to play back music files that were being played back even if you are no longer in the music view (e.g. as background music for a slide show in photo operation).
MediaNetwork LED	Select whether the <b>Connectivity display</b> on the left of the TV set is to light up when there is a connection.
Photo info	Select <b>On</b> , to always have the photo information (file name and number of files in folder) shown with <b>Full screen display</b> or <b>Slide show</b> (photo operation see page 100).
Slide Show interval	Select how long each picture is to be shown for during a slide show. The display time can be 2, 3, 5, 10, 30 and 60 seconds.
Picture transitions	There is a choice of three different photo transitions for changing slides. You can also have the photo transitions run in sequence.
Rotate photos automatically	Vertical photos (with corresponding Exif entry) can be displayed automatically rotated.
Software update	See right hand column.

### Software update

It is possible to update the MediaNetwork software on your TV set. A software update can be installed on your set over the internet.

► The TV set must have a working internet connection with designated gateway and DNS server (see page 97 and glossary page 117).

The web address for the software update over the internet is preset in the set.

### Start software update



▲ ▼ Select **Software update**,  
**OK** start update.

If a new software version is available:



**OK** Load software.

► The TV set must not be switched off while the software is loading!

END

End update dialogue.

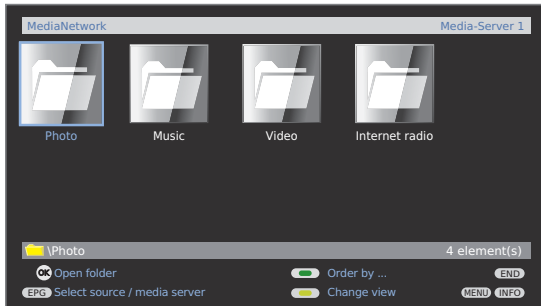
# MediaNetwork

## Media overview – photo operation



Media selection is shown (page 98).

- ◀ ▶ Select folder with photos,  
**OK** open folder.



The name of the folder depends on your media server setting (in example picture: **Photo**).



- ▲ ▼ ◀ ▶ Select required sub-folder,  
**OK** open folder. If required, repeat.

**P+ / P-** Page up/down.

- Only available when there are more items in the current folder than can be displayed on one screen page.

**OK** View marked picture in full screen mode (see next page).



**MENU:** Open **MediaNetwork-Menu** (see page 99).



**Green button: Order by ...**

Change order of objects displayed (folders or files).

- The sorting options available depend on the media server that you are using.



- With alphabetical sorting, the search can be carried out with the number buttons of the remote control by initial letter (depending on the media server).



**Yellow button: Change view**

Switches between preview and list view.



**Blue button: Go to page ...**

Alternatively to going through pages you can also go directly to the individual pages on the overview. On the **Go to page ...** overview, the first title on each page respectively is shown.

- Only available when there are more items than can be displayed on one screen page.

- The number of pages depends on the view selected (preview or list). You can see the number at the bottom on the left.

# MediaNetwork

## Full screen mode



➡ A picture has been selected in the photo overview.

**OK** Go to/close full screen mode.



Show previous/next picture.



◀ ▶ Rotate picture by 90 degrees to the left/right.

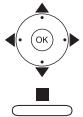
➡ Photos shown in a slide show (see right hand column) can only be turned to view in the pause mode.



**Yellow button:** Zoom picture.

Enlargement factors x2, x4, and x8 are possible. Press the key several times.

At the 4th press return to original size.



Select photo section in zoom mode with ▲ ▼ ◀ ▶ .

Exit the zoom mode to the photo overview with **OK** or the **STOP button**.



**INFO:** Show/hide context information (e.g. recording date, camera model used, picture format etc.).



**END:** Temporarily show/hide file names and number of files in the folder.

➡ Permanent display of this information can be set in the MediaNetwork-Menu (page 99).

## Slide show



**PLAY button:** Start slide show.

➡ from photo overview: Start slide show with marked picture.

➡ in full screen mode: Start slide show with displayed picture.



**PAUSE button:** Pause slide show.



**PLAY button:** Continue slide show.



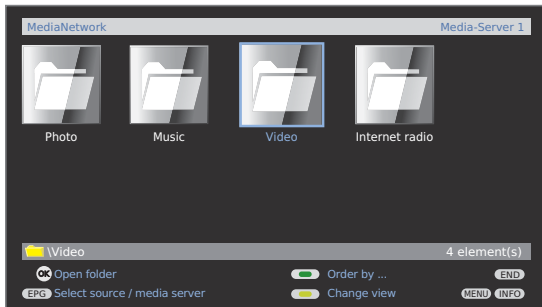
**STOP button:** Stop slide show and return to overview.

## Media overview – video operation



Media selection is shown (page 98).

◀ ▶ Select folder with videos,  
**OK** open folder.



The name of the folder depends on your media server setting (in example picture: **Video**).



▲ ▼ ◀ ▶ Select required sub-folder,  
**OK** open folder. If required, repeat.

**P+ / P-** Page up/down.

Only available when there are more items in the current folder than can be displayed on one screen page.

**OK** Play marked video (see next page).



**MENU:** Open **MediaNetwork-Menu** (see page 99).



**Green button: Order by ...**

Change order objects displayed (folders or files).

The sorting options available depend on the media server that you are using.



With alphabetical sorting, the search can be carried out with the number buttons of the remote control by initial letter (depending on the media server).



**Yellow button: Change view**

Switches between preview and list view.



**Blue button: Go to page ...**

Alternatively to going through pages you can also go directly to the individual pages on the overview. On the **Go to page ...** overview the first title on each page respectively is shown.

Only available when there are more items than can be displayed on one screen page.

The number of pages depends on the view selected (preview or list). You can see the number at the bottom on the left.

### Notes on high definition films

High definition film material (HD films) from format 720p upwards (resolution 1280 x 720 or higher) should be played back via a **wired** connection. If there is a **wireless** connection, then technical limitations (e.g. fault liability, bandwidth limitations) can cause disruptions in the playback right up to a complete breakdown of the playback.

# MediaNetwork

## Play back video files



**PLAY button** or



**OK** Play marked file.



**Blue button:** Set playback mode:

### Repeat title/Repeat all/Repeat off.

A message on the corresponding playback mode is shown briefly at the bottom edge of the picture.



**INFO:** Display information on video played.



**PAUSE button:** Pause current playback.



**PLAY button:** Continue playback.



**STOP button:** Stop current playback and return to overview.

## Wind

You can fast-forward/rewind videos to search for desired scenes.



Rewind at double speed.  
Press again for four times speed.



Fast-forward at double speed.  
Press again for four times speed.



**OK** Continue playing at the marked position.



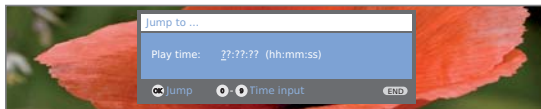
**END:** Abort search and continue playing at the starting point of the winding process.

## Jumping

You can jump to any point in the video via time input.



**Yellow button:** Open **Jump to...** dialogue.



Enter the desired time with the **numeric buttons**.



**OK** Jump.



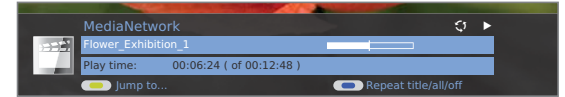
**END:** Cancel jump.

## Video status bar

The video status bar provides you with further information about the current playback.



**END:** Show video status bar.



## Explanation of status bar symbols

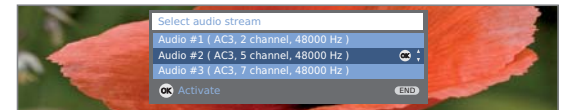
The symbols (in the status bar top right) show you information about the current playback.

- ▶ Playback active
- || Stop playback (pause)
- ◀◀ Rewind (double or four times speed)
- ▶▶ Fast-forward (double or four times speed)
- ↺ Repeat title
- ↻ Repeat all

The bar behind the **play time** shows you how far the video has been played.

## Select language/sound

VOB video files can contain several audio tracks. Select your desired audio stream at the beginning of the video.



▲ ▼ Highlight the desired sound or language and **OK** activate audio stream.

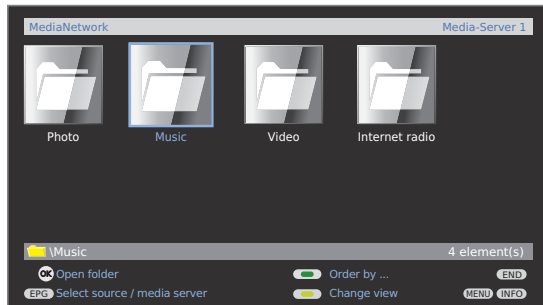
If no selection has been made after a few seconds, the first available audio track will be selected automatically and the video played.

## Media overview – music operation



Media selection is shown (page 98).

- ◀ ▶ Select folder with music files, **OK** open folder.



The name of the folder depends on your media server setting (in example picture: **Music**).



- ▲ ▼ ◀ ▶ Select required sub-folder, **OK** open folder. If required, repeat.

**P+ / P-** Page up / down.

- Only available when there are more items in the current folder than can be displayed on one screen page.

**OK** Play marked music file (see next page).



**MENU**: Open **MediaNetwork-Menu** (see page 99).



**Green button: Order by ...**

Change order objects displayed (folders or files).

- The sorting options available depend on the media server that you are using.



- With alphabetical sorting, the search can be carried out with the number buttons of the remote control by initial letter (depending on the media server).



**Yellow button: Change view**

Switches between preview and list view.



**Blue button: Go to page ...**

Alternatively to going through pages you can also go directly to the individual pages on the overview. On the **Go to page ...** overview the first title on each page respectively is shown.

- Only available when there are more items than can be displayed on one screen page.
- The number of pages depends on the view selected (preview or list). You can see the number at the bottom on the left.



# MediaNetwork

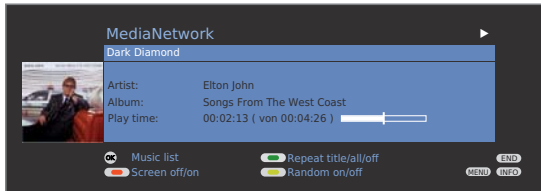
## Playback of music files



OK or



**PLAY button:** Play marked file.



Music playback with album cover



**PAUSE button:** Pause current playback.



**PLAY button:** Continue paused playback.



short: Playback previous/next title.  
long: Rewind/fast forward.



**STOP button:** End playback and return to overview.



**INFO button:** Show information on marked/played music file (metadata).

In the additional information (metadata) of a music file, graphics can be stored as an album cover. If there are such graphics available for the piece currently being played, then this connection is shown in the picture.

## Function of coloured buttons during music playback



**Red:** Switch **Screen off/on**.

**Green:** **Repeat** individual **title/all** titles/  
Repeat **off**.

**Yellow:** **Random** play of files in currently selected folder  
**on/off**.

► **Random** and **title** repeat cannot be activated at the same time.

## Explanation of the symbols in the playback window

The symbols at the top right show you information about the current playback.

- ▶ Playback
- || Pause
- ↺ Repeat title
- ↻ Repeat all
- Random play activated

The bar behind the **play time** shows you how far the music file has been played.

## Internet radio via media server software

Several media servers give you the option of making internet radio programmes available apart from multimedia contents (e.g. TwonkyMedia, see section **Media server software** on page 107).

Internet radio programmes that are available are also shown in the **Music** folder of the media overview. The precise name of the folder or file depends on the setting of the media server and on the internet radio station.

# MediaNetwork

## Media overview – internet radio operation

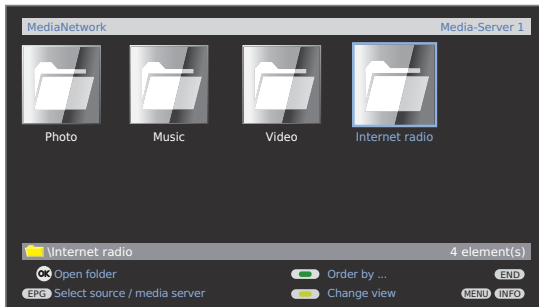
Your TV set can also receive internet radio via the vTuner, even without a media server. In order to do this, the TV set must have a correctly installed internet connection.



Media selection is shown (page 98).

◀ ▶ Select folder Internet radio,  
**OK** open folder.

Internet radio can also be accessed via the Assist+ menu (see page 94).



▲ ▼ ◀ ▶ Select required sub-folder,  
**OK** open folder. If required, repeat.

For favourites see right column.

**P+/P-** Page up/down.

Only available when there are more items in the current folder than can be displayed on one screen page.

**OK** Play marked internet radio station (see right column).



**MENU:** Open **MediaNetwork-Menu** (see page 99).



**Yellow button: Change view**

Switches between preview and list view.



**Blue button: Go to page ...**

Alternatively to going through pages you can also go directly to the individual pages on the overview. On the **Go to page ...** overview the first title on each page respectively is shown.

Only available when there are more items than can be displayed on one screen page.

The number of pages depends on the view selected (preview or list). You can see the number at the bottom on the left.

## Playing internet radio stations



**OK** Access marked internet radio station.



**Red button:** Switch **Screen off/on**.

**Green button:** Add internet radio station to **favourites**.

**Yellow button:** Switch to last accessed internet radio station.



**INFO button:** Display information on current programme.



**P+/P-** Select next/previous internet radio station.



**OK** Return to station list.

## Internet radio stations as favourites

Favourites subfolder is selected (for folder selection, see left column).

Your favourite internet radio stations, which you have specified with the **green button**, will be saved in this folder. The playing of these stations works as described on the left.

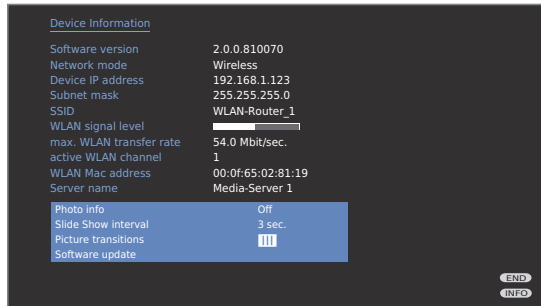
Favourite internet radio stations can be removed from the favourites list again with the **green button**.

## Device Information

MediaNetwork menu is open (page 99).



Open **Device Information**.



This window provides you all information about your network connection that is currently active.

### Explanation of display items

Software version	The currently installed software version of your Network Mediaplayer.
Network mode	Shows the type of connection ( <b>wired</b> or <b>wireless</b> ).
Device IP address	Your current IP address.
Subnet mask	Your current subnet mask.
SSID	(only appears with wireless connection) The name of your network.
WLAN signal level	(only appears with wireless connection) Display of current reception strength: The more solid the bar, the better the reception.
max. WLAN transfer rate	(only appears with wireless connection) Shows you the maximum amount of data can be transmitted wirelessly per second.
active WLAN channel	(only appears with wireless connection) Shows you which of the total of 13 WLAN channels is being used for radio transmission between TV set and router.
WLAN Mac address	(only appears with wireless connection) Provides the MAC address of the WLAN component of your TV set that is secured in the hardware.
Server name	The name of the currently selected media server.

## Media server software

To play multimedia contents from devices in your home network, you require media server software which makes the relevant files available to you. Handling of individual files depends on the technical properties and also on the media server software used.

On our homepage at [www.loewe-int.de](http://www.loewe-int.de) you can download a test version of the **TwonkyMedia Media server**. With your TV set you have simultaneously acquired the option if obtaining a free license for this media server. Alternatively to that, you can also use other media software such as the **Windows Media Player (WMP) as of version 11**.

For communication with your PC, certain **port addresses** of the network connection are required. They may not be blocked by a firewall if there is one, otherwise this could cause serious connection errors.

Windows Media Player 11 requires the port addresses 1900 and the block of 10280 up to and including 10284 (all for UDP) as well as 2869 and 10243 (both for TCP). For TwonkyMedia the port addresses 1030, 1900 and 9080 (all for UDP) and 9000 (for TCP) must be available.

Other ports to be kept free depend on the operating system you are using.

Contact your network administrator about configuring the firewall.

# Troubleshooting

Problem	Possible cause	Remedy
All menus are displayed in the <b>wrong language</b> .	The menu language was set incorrectly.	<b>Set the menu language:</b> Press the <b>INFO button</b> in TV mode ( <b>Index</b> ). Mark the first key word and call it with <b>OK</b> . Then select the language and confirm it with <b>OK</b> .
In the <b>TV menu</b> , <b>Connections</b> cannot be called (displayed in grey).	A timer recording is in progress.	Wait until the timer recording ends or delete the timer recording (page 64).
The control functions of the Loewe Recorder and the <b>Timer</b> are not working or are not working properly	a) The Digital Link function is not activated or not possible in the recorder. b) EURO-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the recorder). b) Connect EURO-AV cable (page 51). c) Register recorder (page 48).
General problems when connecting <b>external devices</b> via an <b>AV input</b> .	a) The device is not logged in to the <b>connection wizard</b> or is connected differently from shown in the <b>connection diagram</b> . b) The <b>AV standard</b> is set incorrectly. c) The <b>signal type</b> is set incorrectly.	a) In the <b>connection wizard (TV menu → Connections → New devices/modifications)</b> compare the <b>connection diagram</b> with the actual installation and connect as shown if necessary (page 48). b) Set the correct standard (page 18). c) Set the correct signal type (page 49).  If <b>AV standard</b> or <b>AV signal</b> is set to " <b>Automatic</b> " then this can cause errors to be detected with signals that do not comply with standards. In this case standard and signal must be set according to the information in the operating manual of the external device.
The <b>connection</b> of a <b>decoder</b> does not function or does not function properly.	a) The signal is not decoded because the correct decoder stations have not been selected in the <b>connection wizard</b> . b) In decoder mode the sound is missing because the wrong decoder sound has been assigned in the <b>connection wizard</b> .	a) Follow the instructions in the <b>connection wizard (TV menu → Connections → New devices/modifications)</b> and select the appropriate decoder station (page 48). b) Follow the instructions in the <b>connection wizard</b> and select the right audio source (Decoder, TV oder Autom.) (page 48), see also the decoder manual.
<b>Digital Link Plus</b> does not work.	a) EURO-AV cable is not fully wired (pin 10 not wired). b) Some recorders can only adopt stations during the initial installation of the TV set.	a) Replace the EURO-AV cable. b) Restore the recorder to the as-delivered state (see recorder's operating manual).

# Troubleshooting

Problem	Possible cause	Remedy
With <b>Teletext</b> various <b>character sets</b> are displayed incorrectly.	The wrong character set has been set in the Teletext menu.	Set the right character set: Select <b>Teletext menu</b> → <b>Settings</b> → <b>Character set</b> → <b>Standard</b> or the appropriate character set.
<b>No sound</b> via the external digital <b>audio amplifier</b> .	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG). b) TV set and external digital audio amplifier are not connected with each other.	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations on the TV set switch to stereo in the <b>Status display (END) – Language/sound (green button)</b> . b) Connect <b>AUDIO DIGITAL OUT</b> from the TV set to a <b>digital</b> input of the external digital audio amplifier and select the appropriate input to this.
The <b>picture</b> of a connected external recorder is visible but the <b>timer</b> cannot be called.	The device is not registered in the <b>connection wizard</b> or is connected differently from shown in the <b>connection diagram</b> .	In the <b>connection wizard (TV menu → Connections → New devices/modifications)</b> compare the <b>connection diagram</b> with the actual installation and connect as illustrated (page 48).
The <b>picture</b> of a connected external recorder is visible but the error message <b>no recorder available</b> is still output.	The device is not registered in the <b>connection wizard</b> or is connected differently from shown in the <b>connection diagram</b> .	In the <b>connection wizard (TV menu → Connections → New devices/ modifications)</b> compare the <b>connection diagram</b> with the actual installation and connect as illustrated (page 48).
Photos on the USB stick are not displayed correctly in the PhotoViewer or a "?" appears.	The photo is not available in a displayable format.	Convert photo file into a standard JPG format on the PC.
A programmed <b>recording</b> was not made.	Recording of <b>analogue</b> stations with <b>VPS</b> data: The programme to be recorded was not (no longer) in the programmes offered by the station via VPS. Recording of <b>DVB</b> stations with <b>automatic time control</b> : The provider deleted the programme from the EPG data, for example due to a programme change.	The stations are exclusively responsible for the transmission of <b>VPS</b> data (for analogue stations) or for the use of the <b>automatic time control</b> (for DVB or MHEG-5 stations). The availability of the appropriate data cannot be guaranteed.
Errors occurred when running a CA module.		Switch the TV set off. Remove the CA-module from the TV set. Wait a few seconds. Reinsert the CA-module. Switch the TV set on again.

# Troubleshooting – MediaNetwork

Problem	Possible cause	Remedy
<p>The TV set is not getting any connection to the server. On the main screen <b>Connect</b> is shown and the Connectivity display does not light up.</p>	<p>a) No connection to the media server.</p> <p>b) On your PC with Windows XP several media servers run <b>at the same time</b>, e.g. <b>Windows Media Player (WMP) 11</b> and <b>TwonkyMedia</b> (also see page 107).</p>	<p>a1) Check whether the media server is switched on.</p> <p>a2) Press <b>OK</b> to make a new attempt at connecting.</p> <p>a3) Check the connection using the PING command. To do this, in the entry request on your PC, enter the command ping.exe, followed by the IP address of your TV set. You will find the current IP address in the <b>Device Information</b> (see page 107). Example: <b>ping.exe 192.168.1.123</b> If the data packages are not transferred, then there is a problem with the network:</p> <p>a4) With a <b>wired</b> connection: Check the arrangement of the cables.</p> <p>a5) With a <b>wireless</b> connection: Check your wireless router.</p> <p>a6) Select another media server with the <b>EPG button</b>.</p> <p>b) If there are several media servers, they can impede each other. For example, when working with <b>TwonkyMedia</b> close file release by <b>WMP11</b>.</p>
<p>Your TV set does not have an IP assigned to it despite required type of IP assignment <b>Automatic (DHCP)</b>.</p>	<p>a) No DHCP server is working on your network.</p> <p>b) With an <b>encrypted wireless</b> connection, you have entered the key incorrectly.</p>	<p>a) Set up a DHCP server. Assign a fixed IP address for the TV set.</p> <p>b) Select <b>Change network</b> in the <b>MediaNetwork-Menu</b>. Rescan for routers using the red coloured buttons. Then correctly enter the WLAN key for your router.</p>
<p>Despite video or music file being played back, no sound can be heard.</p>	<p>a) The TV set is set to mute or the volume has been turned down too far.</p> <p>b) An audio device that does not exist or that is not connected is registered in the <b>TV menu</b> under <b>Connections</b> → <b>Sound components</b> (e.g. <b>HiFi/AV amplifier</b>).</p>	<p>a) Increase the volume by pressing the <b>V+ button</b> on the remote control for longer. This will also cancel any mute setting.</p> <p>b) Connect up the audio device and switch it on. In the <b>Sound components wizard</b> change back to <b>TV speakers</b>.</p>

# Troubleshooting – MediaNetwork


Problem	Possible cause	Remedy
Although the file is visible on the media server, it is not shown in MediaNetwork.	The file is not being made available by your media server.	Change your media server. Read up about this in the section <b>Media server software</b> on page 107.
A media file that is displayed can not be played back.	The format of the file is not supported (see also limitations in section <b>File formats supported</b> on page 107).	No remedy.
Characters contained in the WLAN key are not shown on the input screen (page 96).	The device only supports the characters shown (ASCII standard).	Change the WLAN key of the router.
When searching for wireless routers, no device is found.	The router is not ready for wireless communication.	Check your wireless router. Try to make the connection again a few minutes later.
A <b>Windows DRM</b> -protected music file (see page 107) cannot be played.	a) The licence to play purchased with the music file is missing.  b) You are using the wrong media server.	a) Try to play the music file on the PC using the Windows Media Player 11. If this does not work either, there is a problem with the licence. b) Use the Windows Media Player 11 as a media server.

If with **wireless** operation there should be any **interference** such as **disruptions** during playback or **slow reactions** by devices to commands, you could try the following:

- Keep at least three metres **distance** from microwave ovens, bluetooth devices, mobile telephones and Wi-Fi compatible devices such as printers and PDAs.
- Change the active channel on the WLAN router.

# Technical data

## General data

Type	Reference 52	
Article number	68426xxx	
Device dimensions without stand (W x H x D) in cm	129,5 x 107,2 x 6,7	
Device dimensions with stand (Floor Panel Reference) (W x H x D) in cm	129,5 x 120,1 x 40,0	
Weight for device without stand (approx.) in kg	58,6	
Weight for device with stand (Floor Panel Reference) (approx.) in kg	83,9	
Display technology	Full-HD 200Hz LCD technology	
Picture diagonal (in cm) / picture format	132 / 16:9	
Resolution (in pixels) / Frame rate	1920 x 1080 / 200Hz	
Contrast ratio (static / dynamic)	5.000:1 / 30.000:1	
Viewing angle (horizontal/vertical)	178° / 178°	
Power consumption (EN 62087:2009)		
Power consumption "On" (W)	250	
Power consumption in standby mode (W)	0,7	
Power consumption when the set is turned off (W)	0	
Ambient temperature (Celsius)	5° – 35°	
Relative humidity (non-condensing)	20 – 80%	
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)	

## Electrical data

Chassis designation:..... L 2715  
 Power supply: .....220 V – 240 V/50–60 Hz  
 Tuner:..... VHF/UHF/cable/hyperband  
 Range:..... 45 MHz to 860 MHz  
 Station storage locations incl. AV and radio:..... 4000  
 TV standards:..... B/G, I, L, D/K, M, N  
 Colour standard:..... SECAM, PAL, NTSC, NTSC-V, PAL-V (60 Hz)  
 Sound standard ..... Mono/Stereo/2-Ton/Nicam B/G, I, L  
 .....Dolby Digital, Dolby Virtual Speaker, DTS  
 Audio output power (music/sine): ..... 4 x 40 W / 4 x 20 W  
 Teletext: ..... TOP/FLOF Level 2.5  
 Page memory..... 2000  
 Digital teletext (only in UK / IRL with active MHEG-5 software) ..... MHEG-5

## Connections

Mains socket: ..... Supply voltage  
 EURO-AV 1 Video IN:..... Y/C (S-VHS/Hi 8)  
 ..... CVBS (VHS/8 mm)  
 Video OUT: ..... CVBS (VHS/8 mm)  
 ..... Y/C (S-VHS/Hi 8)  
 Audio IN: ..... L/R  
 Audio OUT:..... L/R  
 EURO-AV 2 Video IN:..... Y/C (S-VHS/Hi 8)  
 ..... CVBS (VHS/8 mm)  
 ..... RGB  
 Video OUT: ..... CVBS (VHS/8 mm)  
 ..... Y/C, (only with SVHS Link Plus)  
 Audio IN: ..... L/R  
 Audio OUT: ..... L/R

Jack 3.5 mm: ..... Headphones 32- 2000 ohm  
 Mini-DIN (AVS) Video IN:..... Y/C (S-VHS/Hi 8)  
 ..... CVBS (VHS/8 mm)  
 Cinch (yellow) Video IN:..... CVBS (VHS/8 mm)  
 Cinch (white/red) Audio IN: ..... L (white) / R (red)  
 2x IEC socket 75 Ohm/5 V/80 mA:..... Antenna/cable/DVB-T/C  
 2x F socket 75 Ohm 13/18 V/350 mA: ..... ANT-SAT DVB-S/S2  
 Jack 3.5 mm AUDIO IN2: ..... L/R  
 Cinch AUDIO IN max. 2Vrms:..... Centre  
 2 x Cinch AUDIO IN1: ..... L (white) / R (red)  
 2 x Cinch AUDIO OUT (level depends on configuration):... L (white) / R (red)  
 Cinch COMPONENT IN:..... Cb/Pb signal  
 Cinch COMPONENT IN:..... Cr/Pr signal  
 Cinch COMPONENT IN:..... Y signal  
 Cinch AUDIO DIGITAL IN (SPDIF): ..... Digital audio  
 Cinch AUDIO DIGITAL OUT (SPDIF): ..... Digital audio  
 SUB-D AUDIO LINK:..... Multi-sound  
 SUB-D PC IN:..... PC/STB video signal  
 SUB-D RS-232C: ..... serial interface  
 Mini-DIN SERVICE: ..... Service/L-Link  
 Mini-DIN CONTROL: ..... Rotating stand control (Positioning accuracy 1.5°)  
 Jack 3.5 mm IR-Link:..... Output for infrared transmitter  
 2 x USB USB 2.0:..... MP3/WMA/Standard JPEG files  
 2 x HDMI Digital Video/Audio IN  
 Type A 19pole Standard 1.3: ..... Digital video and audio  
 2 x CI-Slot Common Interface ..... Slot for CA module  
 Ethernet (8P8C) LAN:..... Network interface



# Technical data

## MediaNetwork

### File formats supported

**Pictures:** **JPG, PNG, BMP, GIF**

- ➡ Picture files may not exceed a size of **10 MB**.
- ➡ Photos in Bitmap format (**BMP**) are supported if not compressed in 8 bit and 24 bit (not RLE) and only in Windows format.

**Music:** **MP3, WAV** (without ADPCM), **WMA 9/10** (compressed), **LPCM, flac**

**Video:** **AVI** (DivX, Xvid, MPEG4), **MPEG 1/2/4, WMV 9/HD, DivX® Video, Xvid, VOB, AVCHD, H.264** (with AAC-LC sound)

➡ **This device can play Windows DRM (WDRM)-protected contents under the following conditions:**

The Windows Media Player 11 is used as a media server. The WDRM-protected music file and a valid licence must be on the same PC as the Windows Media Player 11.

Alternative formats such as Apple FairPlay are not supported.

➡ **In individual cases it is possible that media files can not be played back due to the numerous available technical design and editing options.**

### Ethernet (wired network)

Standards supported: 10 Mbit/sec Ethernet (10Base-T), 100 Mbit/sec Fast Ethernet (100Base-T)

### WLAN (wireless network)

**Standards supported:**

IEEE 802.11b and 802.11g

**Frequency range used:**

2400-2483.5 MHz

**Types of encoding that are supported:**

WEP 64 and 128 Bit (ASCII and HEX), WPA PSK and TKIP, WPA2 AES

### Supported home network standard

Universal Plug and Play Audio / Video (UPnP AV)

This equipment is in compliance with the essential requirements and other relevant provisions of Directive **1999/5/EU**. 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**.

**CE 0682** 

# Accessories

## Accessories and upgrade kits

The following accessories are obtainable from your Loewe dealer.

### Loewe sound systems:

Your Loewe TV set can be complemented perfectly with the loudspeaker systems Reference Sound and Individual Sound. Numerous options for loudspeaker combinations can be realised with floor-standing loudspeakers, satellite loudspeakers and a subwoofer.

### Adapter and cables:

AUDIO LINK adapter	1.5 m	Loewe order no. 89954.001
AUDIO LINK	1.5 m	Loewe order no. 89952.001
AUDIO LINK	6 m	Loewe order no. 89952.002
AUDIO LINK	10 m	Loewe order no. 89952.003
Cubic plug cable	1.5 m	Loewe order no. 90418.930

### Loewe Reference Mediacenter:

The Loewe Reference Mediacenter is the central interface for home entertainment. This comes with reception options for radio via antenna, cable, satellite or Internet, a drive for CDs and DVDs as well as a docking station for iPhone and iPod. The Loewe Reference Mediacenter also serves as an Audioserver for your home network.

### Loewe Individual Sound Multiroom Receiver:

The Loewe Individual Sound Multiroom Receiver allows wireless reception of music in all rooms. The most diverse locations can be connected to one another via a house-internal network. That means you can listen to music anywhere you like.

### Loewe DVD recorder:

The DVD recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. Combined these devices form a system that offers many advantages.

### Loewe Blu-ray Player:

With the Loewe Blu-ray Player "BluTech Vision" you are ideally equipped for the successor format to DVD. With the Loewe system integration you control BluTech Vision and your Loewe TV set simultaneously with the Assist remote control.

### Loewe MovieVision DR+:

The external USB hard disk Loewe MovieVision DR+ makes it very easy to archive programs recorded on the integrated hard disk of the Digital Recorder. In addition, you can connect the Loewe MovieVision DR+ to all Loewe TV sets from Chassis L 2700 onward and watch your recorded movies.

### Upgrade kit USB extension (Art.No. 70167.080):

To ensure easy accessibility of the USB connection or enable USB sticks to be inserted with a large casing, the TV set can be connected to a USB extension.

This upgrade kit is available from your Technical Customer Service (see service addresses on page 127).

# Accessories

## Setup possibilities



Floor Panel Reference



Floor Panel Reference Medium

### Reference 52

- Floor Panel Reference
- Floor Panel Reference Medium

# Other

## Trademarks

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Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved.



The screen font "Loewel2700" is based on the "Tavmjong Bah Arev (tavmjong.free.fr)" font, which in turn is based on "Bitstream Vera". Bitstream Vera is a trademark of Bitstream Inc.

This set contains a software which is based partly on the work of the Independent JPEG Group.

DivX and the corresponding DivX logos are registered trademarks of DivX, Inc.

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>).

This software is provided by the OpenSSL project "as is" and any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the OpenSSL project or its contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

## Acknowledgements

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# Glossary

## 0-9

**24p movie display:** Films released on Blu-ray Disc support presentation of 24p cinema films. The Blu-Ray player transfers the original film format to the television with 24 frames per second. The DMM (DigitalMovieMode) set in the factory calculates and inserts additional intermediate pictures, which suppress film jerking typical for the cinema, thereby providing for a smooth motion sequence.

## A

**Active antenna:** An antenna with its own power supply or amplification that can improve reception in areas with poor reception.

**Administrator:** Person who administers the network, i.e. takes care of setting up and maintaining all components belonging to the network.

**Automatic time control:** Similar to **VPS** for analogue stations the automatic time control monitors the start and end times of programmes from DVB stations. If these times deviate from the data programmed in the timer data the running time of the recording is adapted automatically. The automatic time control is not supported by all DVB stations.

**AVI:** Abbreviation for Audio Video Interleave, a video container file format developed by Microsoft. A single AVI video file can contain several audio, video and text data streams (thus the name container format).

**AV socket:** Socket for audio and video signals.

**AV sources:** Audio/video source.

**AVI:** Abbreviation for Audio Video Interleave, a video container file format developed by Microsoft. A single AVI video file can contain several audio, video and text data streams (thus the name container format).

**AVS:** Audio/video sockets on the TV set (cinch and Mini-DIN).

## B

**Band:** Designation for a frequency range.

**Blu-ray Disc:** The follow-up format of **DVD**. The contents of about five DVDs fit onto one Blu-ray Disc (abbreviated BD). Therefore, the Blu-ray disc provides enough space for high-resolution images and multi-channel sound formats.

**BMP:** Abbreviation for Bitmap, a grid graphics format designed for Microsoft Windows and OS/2 that is wide spread and therefore supported by almost every popular graphics software package without any problems.

## C

**CA module:** The **Conditional Access module** contains the coding system and compares the transmitted code with the one on the **Smart Card**. If they match, the appropriate stations or programmes are decoded.

**CEC:** Abbreviation for Consumer Electronics Control. CEC provides universal component control functions for entertainment electronics devices (e.g. System standby, One Touch Play). CEC is also known as **Digital Link HD** at Loewe.

**Channel (WLAN):** The channel is a certain part of the WLAN frequency band. Devices that want to communicate with each other have to use the same WLAN channel. In Europe the WLAN frequency band is currently divided into 13 channels.

**Cinch cable:** Cable for transmitting audio or video.

**CI slot:** See **Common Interface**.

**Client:** Also referred to as network client; describes an end device such as your TV set that is connected to the network and gets data from a (media) server to make it accessible to the user.

**Common Interface:** The Common Interface (CI slot) is a standardised interface. By inserting suitable decoding modules (**CA modules**) and a **Smart Card** coded digital programmes can be used.

**Common Interface Plus:** CI Plus is an advanced development of the **Common Interface** standard. CI Plus slots are in principle downward compatible to the previous CI standard, i.e. CA modules and Smart Cards according to the past CI standard can continue to be used in CI Plus slots, as far as the programme provider permits this. Additionally, extended regulations apply however to CI Plus.

**Component IN:** Connection by which the video signal is transmitted via three separate cinch connections. It is made up of the brightness signal "Y" and the colour difference signals "Pb" and "Pr". **YPbPr** is the original analogue version of the digital **YCbCr** with which, among other things, video data stored on the DVD and transmitted by satellite, cable or antenna in DVB are colour coded.

**Conditional Access module:** See **CA module**.

## D

**Decoder:** Analogue, coded TV signals are passed through a decoder and made visible again.

**DHCP:** Abbreviation for Dynamic Host Configuration Protocol. DHCP allows automatic assignment of IP addresses with the aid of a DHCP server.

**DHCP server:** Network service which takes care of automatic assignment of IP addresses to clients.

**Digital Link:** System for controlling recorders (for video and DVD recorders from Loewe) via the Euro AV sockets of the Loewe TV set with concealed setup. Controlling the recorder for timer recordings.

**Digital Link HD:** System for controlling devices via the HDMI connection of the Loewe TV set in the case of concealed installation.

**Digital Link Plus:** System for controlling recorders according to protocol 50. For analogue stations the station and timer data are transmitted via the EURO-AV socket to the recorder. The timer recording is executed exclusively by the recorder. There is a different designation with different manufacturers.

**DivX:** Video Codec which allows even large files to be relatively highly compressed in their file size without having to tolerate important quality losses.

# Glossary

**DNS:** Abbreviation of Domain Name System. Readable names (e.g. www.loewe-int.de) are assigned to numerical **IP addresses**. DNS servers are responsible for the resolution of readable addresses into the corresponding IP addresses.

**Dolby Digital:** Digital multi-channel audio. The digital standard for high quality home movie systems. The individual channels are broadcast separately in this standard. The three front channels right, left and centre, the two surround channels right and left and the external subwoofer channels are called a 5.1 signal. Another term for Dolby Digital is AC3.

**Dolby Pro Logic:** Analogue multi-channel audio. Converts a Dolby-coded stereo signal into a surround sound. This usually contains four channels (front left, centre, front right, surround channel). A special subwoofer channel is not generated in this method.

**Dolby Pro Logic II:** Analog multi-channel audio. Dolby Pro Logic II is a further development of **Dolby Pro Logic**. This method generates a 6-channel spatial sound from a stereo or Pro-Logic signal (front left, centre, front right, surround left, surround right, subwoofer).

**Dolby Surround:** Analogue multi-channel audio system that brings four audio channels down to two audio tracks with the aid of a matrix coding.

**Dolby Virtual Speaker:** The Dolby Virtual Speaker technology simulates the surround playback of a real 5.1-channel playback with only two speakers.

**DRM:** Digital Rights Management. Processes to control copyright protected data. To be used correctly, DRM protected contents require not only a DRM capable device but also the possession of a license issued by the provider (to be paid for).

**DTS:** Digital Theater Systems; Digital multi-channel audio.

**DVB-C/-S/-T:** Digital Video Broadcasting stands for digital television. Technical DVB is the standardised process for transmitting digital content (television, radio, multi-channel audio, room sound, **EPG**, Teletext, and other supplemental services) through digital technology. **C** stands for transmission via cable, **S** for distribution via satellite and **T** for terrestrial or antenna distribution.

**DVD:** Abbreviation of Digital Video Disk and later Digital Versatile Disk.

**DVD preceiver:** Combi-device of DVD player and radio without integrated amplifier.

**DVI:** Digital Visual Interface, is an interface for transmitting digital video and graphic data (without audio).

**Dynamic contrast ratio:** Here the light intensity of the display is adapted in case of a high black portion in the picture. The so-called backlights are dimmed automatically and the contrast ratio increases temporarily, i.e. dynamically.

## E

**Electronic Programme Guide:** See **EPG**.

**EPG:** Electronic Programme Guide is the electronic variant of a printed television programme guide. Using the EPG you can watch the TV programme of the TV stations which transfer the appropriate data. The overview of the programmes contains the title, beginning and end and the duration of the programme. In addition also a brief description of respective content of the programme is displayed.

**Ethernet:** Cable linked data net technology for local networks (LANs). Also covers standards for e.g. plug connectors and transfer speeds.

**Euro AV socket:** Interface for connecting video devices to a TV set. This socket is also referred to as Scart socket.

## F

**FLOF:** Full Level One Facilities. Teletext system in which designations and numbers of the jump destinations are transmitted separately for every page on the bottom line. This guides the reader to related topics for example. An information about which pages exist and which pages have sub-pages is not available in FLOF.

## G

**Gateway:** Transfer into another network; in this case connection from home network to internet. The network device is usually used as the standard gateway which produces this connection. The DSL router generally also represents the internet gateway.

## H

**HDCP:** High-bandwidth Digital Content Protection. Coding system provided for the interfaces **DVI** and **HDMI** for protected transmission of audio and video data.

**HDMI:** High Definition Multimedia Interface is a newly developed interface for full digital transmission of audio and video data.

**HDTV:** High Definition Television is an umbrella term that covers a number of high resolution television standards.

**HD-Ready:** A quality seal that is awarded to products which are capable of displaying high-definition television (**HDTV**).

**High band and Low band:** Transmission ranges for satellites.

**Host:** Computer that the server services are provided from, i.e. that makes data available. Refer also to media server.

## I

**ID3 tags:** Additional information for MP3 and WMA audio files. Information about the singer, title, album and album cover can be saved here among other things. These data are edited on the PC by an ID3 tag editor.

**IP address:** IP addresses (Internet Protocol Addresses) are used to identify devices in an Internet Protocol (IP) network. IP addresses are made up of four groups of numbers of three digits each.

# Glossary

## J

**JPEG/JPG:** Joint Photographic Experts Group is a committee that has developed a standard method of compression for digital images. This JPEG method (**JPG** for short) named after the committee is a widely used graphic format for photos.

## L

**LAN:** Abbreviation for Local Area Network. Mainly used as a designation for networks with wiring (Ethernet).

**LCD:** Liquid Crystal Display.

**LCN:** Logical Channel Numbers. In stations with LCN, the channel location number belonging to the station is also transmitted by the provider. The stations are sorted according to these channel location numbers.

**L-Link:** Intelligent system connection between Loewe devices for the automatic exchange of information. Makes the operation of TV and Loewe system components even more convenient.

**LNB/LNC:** The crucial electronic component of a satellite antenna is referred to as an LNB (Low Noise Block Converter). It is mounted in the focal point of a parabolic antenna. The designation **LNC** (Low Noise Converter) indicates that conversion to lower intermediate frequency takes place. The supplemental block in the LNB refers to the fact that a whole frequency range (a block) is converted in each case.

## M

**MAC address:** Hardware address of a network adapter, e.g. the network card in the PC. It is permanently assigned by the manufacturer and is used to uniquely identify devices in networks.

**Mbit/sec:** Information about the transfer rate in networks in megabits, i.e. millions of characters per second. With WLAN, the maximum speed is 11 (IEEE 802.11b) or respectively 54 (IEEE 802.11g) Mbit/sec, in wired nets 10 Mbit/sec or 100 Mbit/sec (Fast Ethernet).

**Media server:** Stands for the device which multimedia contents are stored on, but is also the name for the service provided by the device that makes this data available to the network.

**MHEG-5:** Digital teletext standard of the Multimedia and Hypermedia Expert Group. At the moment only available in United Kingdom and Ireland.

**Modulator:** Transmitter in the video or DVD recorder so that the devices can receive signals via the tuner of the TV device.

**Mono:** Single-channel audio.

**MPEG:** Digital compression process for video.

**MP3:** Data format for compressed audio files.

**Multimedia contents:** Videos, music files and photos are grouped together under this term.

## N

**NAS:** Abbreviation for Network Attached Storage. The term describes a hard disk which is independently linked to the network (i.e. without a PC).

**Network ID:** NID refers to the so-called programme ID number also known as network ID – a number between 0 and 8191. This specification is necessary in specific cable networks of some countries. Then only DVB signals of this station network are searched for.

**Network Mediaplayer:** The technology in your Loewe TV set which presents multimedia contents on the screen for you.

**NICAM:** Audio standard. Is used in Denmark, England, France, Sweden, and Spain.

**NTSC:** American picture standard.

## P

**Page Catching:** For Teletext, refers to going to and calling a page number.

**PAL:** European picture standard.

**PCM:** Pulse Code Modulation for digital audio.

**Picture in Picture:** See **PIP**.

**PIP:** Picture in Picture; a function which displays two pictures on the screen.

**Pixel:** Refers to the smallest unit of a digital grid graphic and its representation on a screen with grid control.

**Pixel error:** A pixel error is a defective pixel, usually on an LCD. Pixel errors may be caused by production faults. They are expressed for example by a constantly lit pixel or a constantly black pixel. Single defective pixels however are excluded from a guarantee.

**PNG:** Abbreviation for Portable Network Graphics, a freely available grid graphics format for loss-free compression.

**Port:** A port is part of a network address (or also IP address). It allows assignment of data packages to various services which are running on one device under the same network address.

**Progressive JPEG:** Progressive **JPEGs** are built up gradually. The picture quality improves continuously during loading.

**ProScan/Progressive Scan:** Progressive Scan (abbr. PS) or full picture method is a technique in the picture build-up of monitors, TV sets, beamers, and other display devices in which the output device is not sent line interlaced half pictures – unlike in the interlace technique – but real full pictures.

**PSK:** Stands in connection with WLAN encoding for Pre-Shared Key. Clients, who want to connect up to a wireless network secured with PSK have to know this key.

# Glossary

## R

**RGB:** Colour signals red, green and blue.

**Router:** Device for connecting up several networks, e.g. home network and internet.

## S

**Satellite tuner:** Receiver for satellite programmes.

**SDTV:** Standard Definition TeleVision.

**SECAM:** French colour standard.

**Set-Top-Box:** Set-Top-Box (STB for short) refers to a device in entertainment electronics which is connected to another device, usually a TV set, and offers the user additional functional options.

**Signal input groups:** Depending on the applied signal, the signal sources are divided into different groups. All signal input groups with their corresponding signal types and the possible inputs are listed below.

### TV analogue:

Signal type: FBAS, YC, RGB-SD (480i/576i), Component-SD (480i/576i)  
Input: Tuner analogue, AV1, AV2, AVS, COMP. In

### TV digital:

Signal type: DVB-SD, HDMI-SD (480i/576i)  
Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

### HD analogue:

Signal type: RGB-HD (video mode: e.g. 1920x1080, 1280x720),  
Component-HD (video modes: e.g. 1920x1080, 1280x720)  
Input: COMP. IN, PC IN

### HD digital:

Signal type: DVB-HD, HDMI-HD  
Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

### PC:

Signal type: RGB  
(PC modes: e.g. 800x600, 1024x768, 1280x1024, 1360x768)  
Input: PC IN

### PhotoViewer:

Input: USB

**Signal strength:** strength of the received antenna signal.

**Signal quality:** quality of the incoming antenna signal.

**Smart Card:** The Smart Card is an electronic chip card issued by the respective programme provider or by the certification-free Pay TV operators. It contains the code which is decoded by the **CA module**.

**Static contrast ratio:** Describes the difference between the brightest and darkest picture display.

**Stereo:** Dual-channel audio.

**Switch:** Device for connecting several computers to a network.

**Switching voltage:** Video devices specify this voltage to switch the TV device to playback.

**Symbol rate:** describes the transmission speed for data transmission.

## T

**Terrestrial:** In data transmission a wireless transmission that does not use satellites as intermediate station is referred to as terrestrial.

**TFT:** Thin-Film-Transistor. One widely distributed application is control of liquid crystal flat screens, for which a signal transistor is used for each pixel. This design of display is also referred to as active matrix, however it is frequently also referred to as TFT display.

**TOP:** Table of Pages. Teletext system in which the individual pages are divided into topics. The blocks stand for a higher hierarchy level (e.g. News, Sport, Programmes) and the groups for the level below (e.g. Home/Abroad, Football/Tennis). Abbreviations can be assigned to the pages which are displayed in colour on the bottom line and can be selected with the four coloured buttons on the remote control. Information is also transmitted which pages exist and which have sub-pages.

**Tuner:** Another term for receiver.

## U

**UPnP AV:** Abbreviation for Universal Plug and Play Audio / Video. Is used to control network devices from all manufacturers. Has become a wide spread standard for home networking.

**USB:** Universal Serial Bus. Serial bus system for connecting external devices (USB card reader, USB stick).

## V

**VGA:** PC interface for connecting a monitor.

**Virtual Dolby Surround:** A technology certified by Dolby. It creates a virtual sound from two speakers. Prerequisite is **Dolby Surround** or **Dolby ProLogic** as a source. The used virtualizer processes all multi-channel signals and gives the impression of additional speakers.

**VPS:** The Video Programming System (VPS) is a signal which some (but not all) analogue TV stations transmit in the blanking gap. The signal is used by video and DVD recorders when recording programmes to react to delays in start time, programme changes and excesses of the planned program time.

## W

**WEP:** Abbreviation for Wired Equivalent Privacy. Former standard process in the WLAN encryption, now outdated.

**Wired network:** see LAN.



# Glossary

**Wireless network:** see WLAN.

**WLAN:** Abbreviation for Wireless Local Area Network. Also abbreviated as wireless network.

**WMA:** Abbreviation for Windows Media Audio, Microsoft own audio data format. As with MP3 files, the content is compressed here as well.

**WMV:** Abbreviation for Windows Media Video, Microsoft own video data format.



**WPA:** Abbreviation for Wi-Fi Protected Access. Replaced WEP as standard encryption for wireless networks.

## Y

**Ycc/Ypp:** Colour standards for **Set-Top-Boxes**.

**YCbCr:** Digital colour model, see **COMPONENT IN**.

**YPbPr:** Analogue colour model, see **COMPONENT IN**.

 The code number  Cancels an access code and thus the parental lock. Please keep in a safe place.

# EC Declaration of Conformity

## EG-Konformitätserklärung Declaration of Conformity

Dokument-Nr./ Monat . Jahr **68426 / 05.2009**  
Document No./Month. Year

Hersteller: **Loewe Opta GmbH**  
Manufacturer:

Anschrift: **Industriestraße 11**  
Address: **96317 Kronach**  
**Germany**

Produkt: **Farbfernsehgerät mit LCD Flachbildschirm**  
Product : *Colour Television Receiver with LCD Flat Panel Display*

Produktbezeichnung: **Reference 52**  
Product designation:

Handelsname: **LOEWE.**  
Trade mark

Das Produkt stimmt mit den Vorschriften folgender Europäischer Richtlinien überein:

- 2006/95/EG** Text: Richtlinie des Rates vom 12. Dezember 2006 zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen - Niederspannungsrichtlinie
- 2004/108/EG** Text: Richtlinie des Rates vom 15. Dezember 2004 zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten über die elektromagnetische Verträglichkeit.
- 1999/5/EG** Text: Richtlinie des Parlamentes und des Europäischen Rates vom 9. März 1999 über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität

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

**2006/95/EC** Text: *Electrical equipment designed for use within certain voltages limits – LV-Directive*

**2004/108/EC** Text: *Electromagnetic compatibility*

**1999/5/EC** Text: *Radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity*

Die Übereinstimmung des bezeichneten Produkts mit den Vorschriften der Richtlinien Nr. 2006/95/EG wird nachgewiesen durch die vollständige Einhaltung folgender Normen:  
*The conformity of the designated product with the provisions of Directive No. 2006/95/EC is proved by full compliance with the following standards:*

Harmonisierte Europäische Normen:  
*Harmonized European standards:*

Referenznummer Reference number	Ausgabedatum Date of issue
<b>EN 60065</b>	<b>2002 + A1 2006</b>

Die Übereinstimmung des bezeichneten Produkts mit den Vorschriften der Richtlinie Nr. 2004/108/EG wird nachgewiesen durch die vollständige Einhaltung der folgenden Normen:  
*The Conformity of the designated product with the provisions of Directive No. 2004/108/EC is proved by full compliance with the following standards:*

Harmonisierte Europäische Normen:  
*Harmonized European standards:*

Referenznummer Reference number	Ausgabedatum Date of issue	Referenznummer Reference number	Ausgabedatum Date of issue
<b>EN 55013</b>	<b>2001 + A1 2003 + A2 2006</b>	<b>EN 55024</b>	<b>1998 + A1 2001 + A2 2003</b>
<b>EN 55020</b>	<b>2002 + A1 2003 + A2 2005</b>	<b>EN 61000-3-2</b>	<b>2006</b>
<b>EN 55022</b>	<b>1998</b>	<b>EN 61000-3-3</b>	<b>1995 + A1 2001 + A2 2005</b>

Die Übereinstimmung des bezeichneten Produkts mit den Vorschriften der Richtlinie Nr. 1999/5/EG wird nachgewiesen durch die vollständige Einhaltung der folgenden Normen:  
*The Conformity of the designated product with the provisions of Directive No. 1999/5/EC is proved by full compliance with the following standards:*

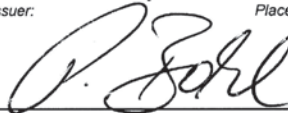
Harmonisierte Europäische Normen:  
*Harmonized European standards:*


Referenznummer Reference number	Ausgabedatum Date of issue
<b>EN 62311</b>	<b>2008</b>
<b>EN 301489-1</b>	<b>V 1.6.1</b>
<b>EN 301489-17</b>	<b>V 1.2.1</b>
<b>EN 300328</b>	<b>V 1.7.1</b>

Anbringung der CE-Kennzeichnung : **09**  
Date of the CE marking

Aussteller: **Loewe Opta GmbH** Ort, Datum: **Kronach, den 14.05.2009**  
Issuer: Place, Date:

Rechtsverbindliche Unterschrift:  
Legally binding signature:

  
ppa. Roland Bohl  
Director R&D Product Development

  
i.V. Wolfgang Vetter  
Manager Technical Department

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

*This declaration certifies compliance with the indicated directives but implies no warranty of properties.  
The safety instructions of the accompanying product documentation shall be observed.*

# EC Declaration of Conformity

- BG** Този уред отговаря на основните изисквания и разширените съответни предпоставки **Директива 1999/5/ЕС**. Разрешено е използването му във всички държави от **ЕС**, и освен това в **Исландия, Норвегия и Швейцария**. Във **Франция и Италия** използването му е разрешено **само в затворени помещения**.
- CZ** Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními **Směrnice 1999/5/EG**. Může být používán ve všech zemích **EU** dodatečně také na **Islandu, v Norsku a ve Švýcarsku**. Ve **Francii a v Itálii** je použití přístroje dovolené **jenom v interiéru**.
- D** Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der **Richtlinie 1999/5/EG**. Es darf in allen Ländern der **EU** sowie zusätzlich in **Island, Norwegen** und der **Schweiz** betrieben werden. In **Frankreich** und **Italien** ist die Nutzung **nur in Innenräumen** zulässig.
- DK** Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i **Direktiv 1999/5/EF**. Det må kun anvendes i **EU-landene** samt i **Island, Norge** og **Schweiz**. I **Frankrig** og **Italien** er det kun tilladt at anvende det **indendørs**.
- E** Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la **Directiva 1999/5/CE**. Puede operar en todos los países de la **UE** y adicionalmente en **Islandia, Noruega y Suiza**. En **Francia e Italia**, su uso está permitido **únicamente en espacios interiores**.
- FIN** Tämä laite täyttää **direktiivin 1999/5/EY**olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen. Laitetta saa käyttää kaikissa **EU-maissa** sekä **Islannissa, Norjassa ja Sveitsissä**. **Ranskassa ja Italiassa** laitetta saa käyttää **vain sisätiloissa**.
- F** Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la **Directive 1999/5/EC**. L'utilisation est possible dans tous les pays de l'**UE**, en **Islande**, en **Norvège** et en **Suisse**. En **France** et en **Italie** l'utilisation est autorisée **uniquement dans des espaces fermés**.
- GB** 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**.
- GR** Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιαστικές απαιτήσεις και άλλες σχετικές διατάξεις της **Οδηγίας 1999/5/ΕΚ**. Επιτρέπεται η λειτουργία της σε όλες τις χώρες της **ΕΕ**, καθώς και στην **Ισλανδία**, στην **Νορβηγία** και στην **Ελβετία**. Στην **Γαλλία** και στην **Ιταλία** επιτρέπεται η χρήση **μόνο σε εσωτερικούς χώρους**.
- I** Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla **Direttiva 1999/5/CE**. Può essere messo in funzione in tutti i paesi dell'**UE** e inoltre in **Islanda, Norvegia** e in **Svizzera**. In **Francia** e in **Italia** è consentito l'uso **solo in ambienti chiusi**.
- N** Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i **EU-direktiv 1999/5/EF**. Det kan brukes i alle **EU-land** og dessuten i **Island, Norge** og **Sveits**. I **Frankrike** og **Italia** er **kun innendørs bruk** tillatt.
- NL** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van de **Richtlijn 1999/5/EG**. Het gebruik is toegestaan in alle landen van de **EU** en ook in **Island, Noorwegen** en **Zweden**. In **Frankrijk** en **Italië** is het gebruik **slechts binnenshuis** toegestaan.
- S** Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i **Direktiv 1999/5/EC**. Apparaten får användas i alla länder inom **EU** liksom på **Island, i Norge** och i **Schweiz**. I **Frankrike** och **Italien** får apparaten användas **endast inomhus**.

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