

# Connect

TV

Connect 26 LED



Operating instructions, Instrucciones de manejo

**LOEWE.**

233-34659.020



# Quick guide

## Set operating mode



TV operation



Radio operation (standard assignment)  
The assignment of the AUDIO button can be changed (see page 85).

## On/Off of the television set



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

## Selecting stations



**OK** Call station overview and with  
◀ ▶ ▲ ▼ Select station



or

**P+ / P-** Programme +/-

or



Select station with numeric buttons

## Sound



**V+ / V-** Volume up/down



Sound on/off

## Colour key function during TV operation



**Red button:** Freeze on/off.

**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



Call timer list

Press button twice in quick succession:  
Show / hide time permanently



Adjust picture format



Call MediaPortal,  
select operating mode or function.



On/Off PIP (picture in picture)



On/Off EPG (Electronic Programme Guide)



On/Off teletext,  
select teletext page



Call status display,  
call programme information (if available) with status  
display open and repeated pressing.

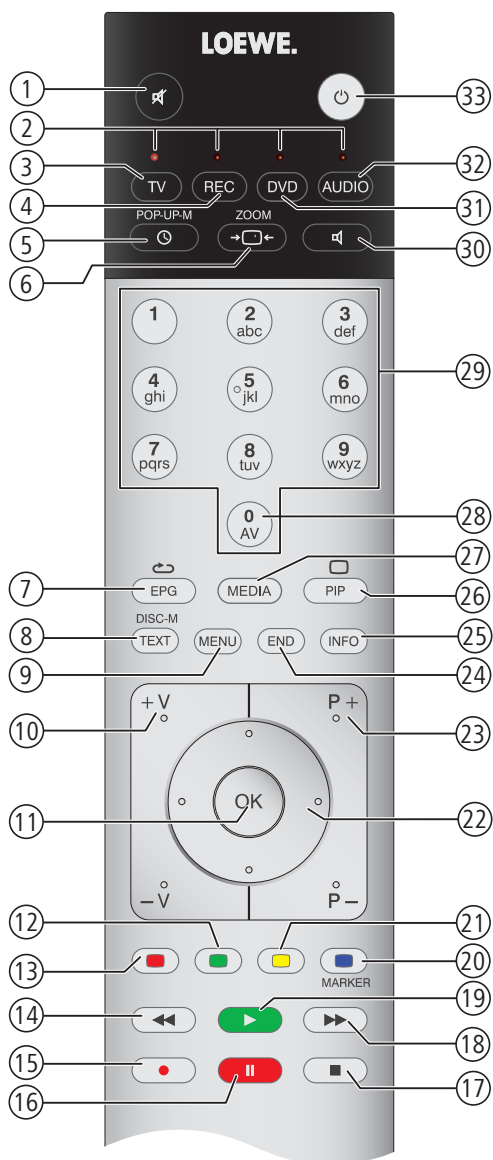


Call TV menu,  
carry out settings



With opened menu: Exit menu;  
Terminate inserts

# Remote control – TV functions



## Functions of Loewe TV set

- ① Sound off/on ..... (page 32)
- ② LED display for current operating mode ..... (page 85)
- ③ Switch over to TV mode ..... (page 20; 85)
- ④ Switch over to operate recorder<sup>12</sup> ..... (page 85)
- ⑤ Timer overview on/off ..... (page 83)
- ⑥ Set picture format ..... (page 35)
- ⑦ Electronic Programme Guide on/off ..... (page 46)
- ⑧ Teletext on/off ..... (page 48)
- ⑨ Menu on/off ..... (page 12)
- ⑩ **V+/V-** Volume louder/quieter ..... (page 32)
- ⑪ Station list on ..... (page 30)  
in the menu: Confirm/call ..... (page 12)
- ⑫ Green button: Teletext functions ..... (page 36)
- ⑬ Red button: Freeze on/off ..... (page 36)
- ⑭ Select station down; in the menu/wizard (if available): Back ..... (page 28)
- ⑮ Direct recording
- ⑯ Still frame on/off
- ⑰ Still frame on
- ⑱ Select station up
- ⑲ Still frame off
- ⑳ Blue button: Programme info on/off ..... (page 36)
- ㉑ Yellow button: Previous station ..... (page 36)
- ㉒ In the menu / Lists: Select/Set ..... (page 12)
- ㉓ **P+/P-** Select Station up/down ..... (page 30)
- ㉔ Close all displays ..... (page 12)
- ㉕ Status display on/off; in the menu: context-relevant Info on/off ..... (page 38; 15)
- ㉖ PIP on/off (picture in picture) ..... (page 44)
- ㉗ MediaPortal on/off ..... (page 14; 56)
- ㉘ AV selection ..... (page 31)
- ㉙ Select station directly; in the menu: Enter numbers or letters ..... (page 30)
- ㉚ Set sound adjustment ..... (page 32)
- ㉛ Switch over to operate DVD player<sup>12</sup> ..... (page 85)
- ㉜ Switch over to radio mode<sup>12</sup> ..... (page 21; 50; 85)
- ㉝ Switch on/off – to standby mode ..... (page 21)

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

<sup>2</sup> The assignment of these keys can be changed (see page 85). The description refers to the standard setting.

## Acknowledgements

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# Welcome

## Thank you!

Loewe stands for the highest demands in technology, design and user friendliness. This applies equally for TV, video and accessories.

In addition to the elegant design and the many different possible colour combinations and installation possibilities, your Loewe TV set also offers many technological options.

## Loewe Image+

State-of-the-art Full-HD-LCD-displays with LED-Backlight Technology. The advantage of the LED-Backlight is in the reduced energy consumption and high contrast values.

24p films played by a connected HDMI unit can be displayed optimally.

## Loewe Media+

You can reach the MediaPortal via the MEDIA button on your remote control, giving you access to all multimedia functions of your TV set.

## Loewe Connectivity+

Diverse connection options for your TV set allow you to set up system solutions that are easy and convenient to operate.

## Loewe Digital+

The TV set is equipped for digital reception. You can use the anywhere TV (DVB-T) already being broadcast widely as well as cable digital (DVB-C) and digital satellite reception<sup>1)</sup> (DVB-S / DVB-S2).

The TV set is equipped for Standard CI Plus for the reception of coded stations. Coded digital programmes can be used by buying the decoder modules (CA module) obtainable from dealers.

## Loewe Assist+

The TV set is designed so that it is easy to use with the help of wizards and menus. Information on settings in the menus will be shown automatically. All functions are arranged clearly and logically.

## Scope of delivery

- LCD TV set
- Antenna cable
- Remote control Assist with two batteries
- 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 8) 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 101 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.

In some countries, the stations also transmit interactive data services with their programmes (see page 50, Digital Teletext/MHEG-5), whereby the functions of individual keys are not available or only so to a limited extent.



The symbol indicates which functions can differ for a loaded application.

<sup>1)</sup> Equipment and upgrade options, see page 97.

# 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 **liquids** on top of the appliance. Protect the appliance against dripping and splashing water.

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

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

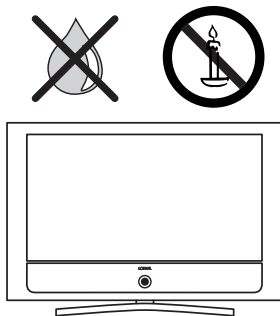
## Transporting

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

If the set has to be put down during packing/unpacking, place the TV set with the entire front surface lying flat on a soft underlay such as a blanket or the felt from the packing material.

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

Always wear rubber gloves to carry the TV set if the LCD screen is damaged and **liquid crystal** might be leaking out. 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. 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.

Ensure that there is at least 10 cm free space on the sides and above the set for air circulation, if the set is placed in a **cabinet** or on a **shelf**.

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

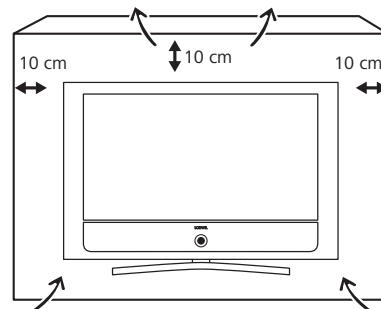
The set is suitable for different installation solutions. See the instructions for assembly for the different installation solutions.

Stand the TV set with the table or 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 95 and 98).

## 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.

## 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.

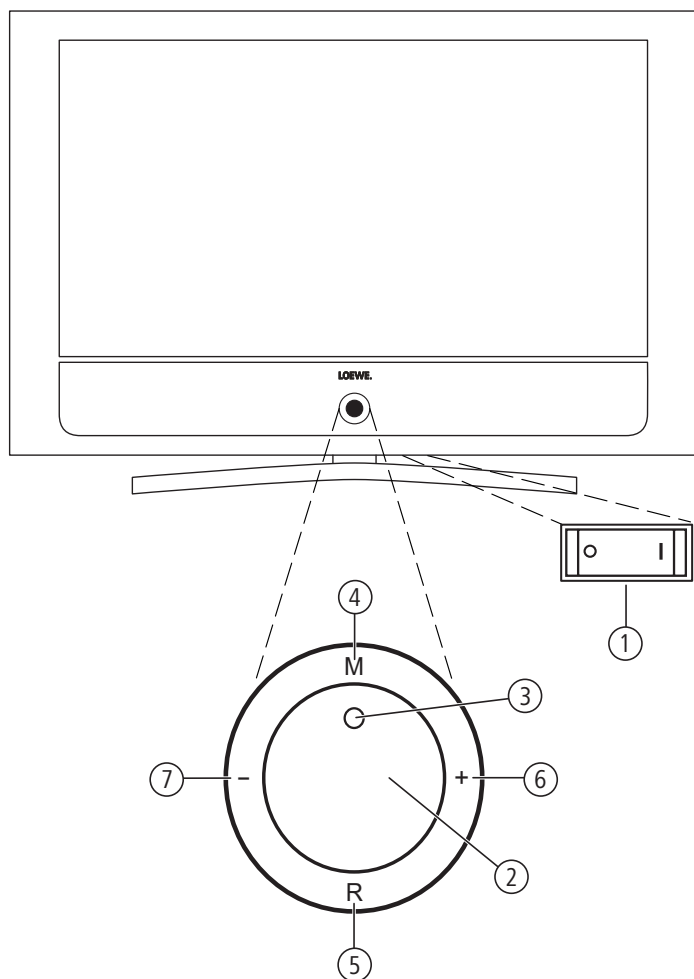
Avoid displaying **still images** for long periods of time. It is possible that a copy of the image may remain.

## Cleaning and care

☛ Switch off the TV set at the main switch before 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**.

# Control unit front side of the device

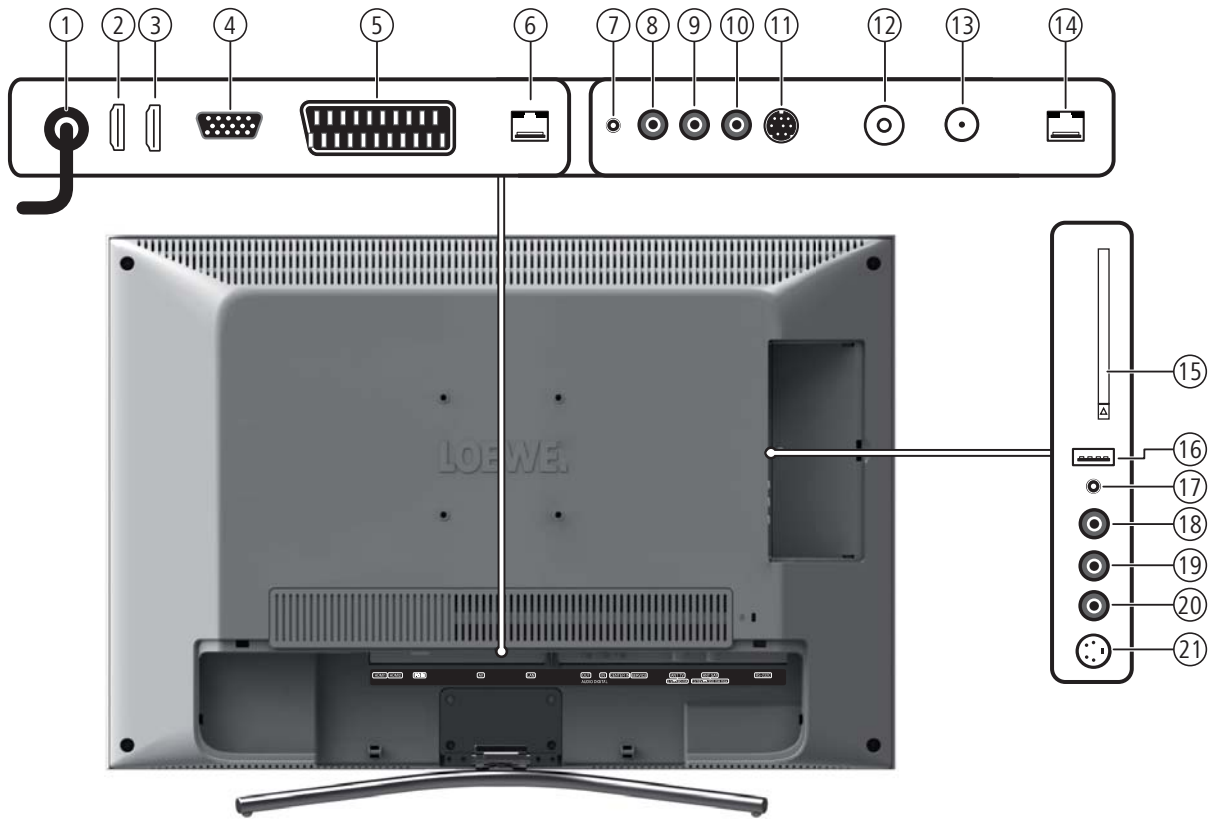


## Functions of the operating elements

- ① **Mains switch:**  
The mains switch is located on the bottom of the set.
- ② **On/Off button:**  
Switch on from the standby mode  
Switch off to the standby mode
- ③ **Display:**
  - red = Standby
  - green = Operation
  - orange = Operation without on-screen display  
(Radio, EPG data capture or timer recording)
- ④ **Button M:**  
Call the menu  
in the menu: up/down ▲ ▼
- ⑤ **Button R:**  
Radio on/off<sup>(1)</sup> (back to TV mode)  
Switch on the radio from the standby mode  
in the menu: down ▼
- ⑥ **Button +:**  
Station up  
in the menu: to the right ►
- ⑦ **Button -:**  
Station down  
in the menu: to the left ◀

<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



- ① Mains cable
- ② **HDMI 1** - HDMI input 1
- ③ **HDMI 2** - HDMI input 2
- ④ **PC IN** - VGA/XGA input
- ⑤ **AV** - Euro-AV socket
- ⑥ **LAN** - Network connection
- ⑦ **AUDIO IN** - Audio input (analogue)
- ⑧ **AUDIO DIGITAL OUT** - Digital audio output
- ⑨ **AUDIO DIGITAL IN** - Digital audio input
- ⑩ **CENTER IN** - Centre audio input (analogue)
- ⑪ **SERVICE** - Service socket

- ⑫ **ANT-TV** - Antenna/cable analogue/digital
- ⑬ **ANT SAT** - Satellite antenna (Sat tuner) <sup>†</sup>
- ⑭ **RS-232C** - Serial interface <sup>†</sup>
- ⑮ **CI-COMMON INTERFACE** - Common Interface (CI slot)
- ⑯ **USB** - USB connection
- ⑰ **🎧** - Headphones connection
- ⑱ **AUDIO IN L** - Audio in left (AVS)
- ⑲ **AUDIO IN R** - Audio in right (AVS)
- ⑳ **VIDEO IN** - Video in (AVS)
- ㉑ **AVS** - S-Video connection (AVS)

<sup>†</sup> Equipment and upgrade options, see page 97.

# Operating convenience

## General information on menu operation

The operation can be divided basically into two areas: The operation of dropdown lists (e.g. station list, favourites list, EPG etc.) and the menu operation (TV menu etc.) for configuring your TV set.

How to use the appropriate buttons is explained by example of a dropdown list (station list). Navigation through the menus is described by the example of the TV menu which is used for many explanations.

### Explanation of the buttons for a dropdown list (e.g. station list):



▲ ▼ ◀ ▶ You move the cursor by pressing the ring (up, down, left, right).



**P+/P-** If more selection options are available than will fit on one screen **page ↓↑** is displayed. You can scroll the pages with **P+/P-**.



**OK** The **OK** button calls the selection or confirms the setting.



With the coloured buttons you can select different options depending on the application. The assignment of the coloured keys is shown at the bottom of the screen.



**INFO:** Additional information about the screen page.



**END:** Close/exit dropdown list.

### Inputs with the numeric buttons



Letters have to be entered for specific functions. Like using a mobile phone keypad (0 to 9), press a numeric button until the desired character appears.

The available letters are printed on the individual numeric buttons.

### Example: Select and perform functions in the TV menu

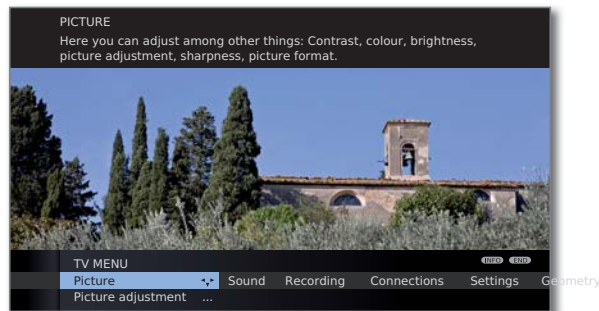
Menus for the individual modes (TV, Radio, PIP, EPG, Teletext and MediaPortal) are called with the **MENU** button.

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 page 15).

► In normal TV mode, without other displays.



**MENU:** Call TV menu.



◀ ▶ 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**.



**END:** Conclude the settings.

# Operating convenience

## Operating convenience with wizards

For many settings your TV set has user guidance with wizards which guide you through the settings step by step.

## Overview of wizards

### Initial installation

The initial installation wizard helps you with the initial installation and connection of any existing equipment (see page 22).

### 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 22). You can also call the antenna wizard in the **TV menu** under **Connections** → **Antenna DVB** → **Antenna DVB-S**<sup>(1)</sup> 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 40). You will find the search wizard in the **TV menu** under **Settings** → **Stations** → **Search wizard**.

### 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 79). You will find the sound components wizard in the **TV menu** under **Connections** → **Sound components**.

### Programming and managing recordings

The recording wizard helps you to programme a recording with a VCR or DVD recorder (see page 82).

### Software update

You can download the latest software for your TV set from the Loewe Service site and update using a USB stick (see page 86).

<sup>(1)</sup> Equipment and upgrade options, see page 97.

# Operating convenience

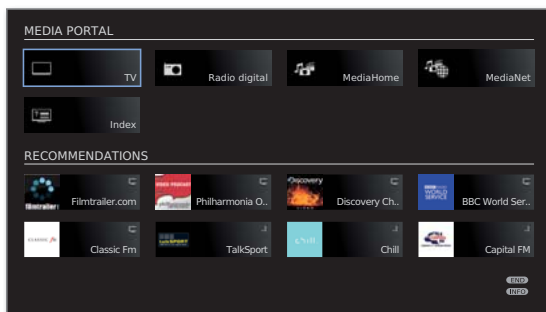
## MediaPortal

This portal offers you accesses to central media, functions and contents of your TV set. From all these you can save your own personal favourites on this page to help you to call them simply and directly again later.

### Call MediaPortal

MEDIA

**MEDIA:** Call **MediaPortal**.



The individual media and the various functions are displayed at the top of the MediaPortal.

The number of selectable items varies depending on the TV equipment, network connection, available media/media servers and connected appliances.

The lower part of the MediaPortal contains the selectable recommendations.



◀ ▶ ▲ ▼ Select menu item,  
OK call.

### Description of the individual functions:

- TV: Here you call the TV mode of your TV set. See page 30 for further information.
- Radio digital: Here you call the DVB radio mode of your TV set. See page 50 for further information.
- MediaHome: Here you have access to your personal memory media, e.g. to all memory media connected via USB or to networks with which your TV set is connected. See page 56 onwards for further information.
- MediaNet: Here you have access to music and video sources from the Internet. The menu item only appears if a network link is available. See page 56 onwards for further information.
- Index: Here you have access to the index integrated in the TV set. See page 15 for further information.

# 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

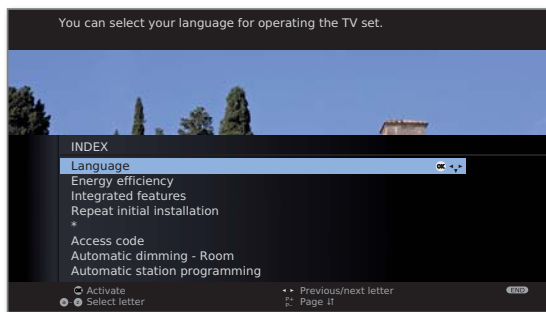
MEDIA

**MEDIA:** Call **MediaPortal**.



◀ ▶ ▲ ▼ Select **Index**,  
**OK** call.

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 12).

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 info display

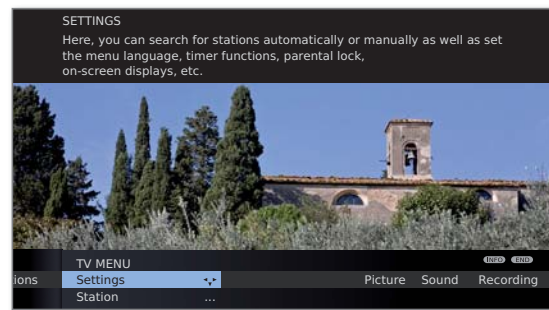
The info display shows a content-based info text for each menu item at the top edge of the screen to aid you in making the settings. In conjunction with the index it makes a convenient control system.

⇒ A menu is displayed.

INFO

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 11** 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.

MENU

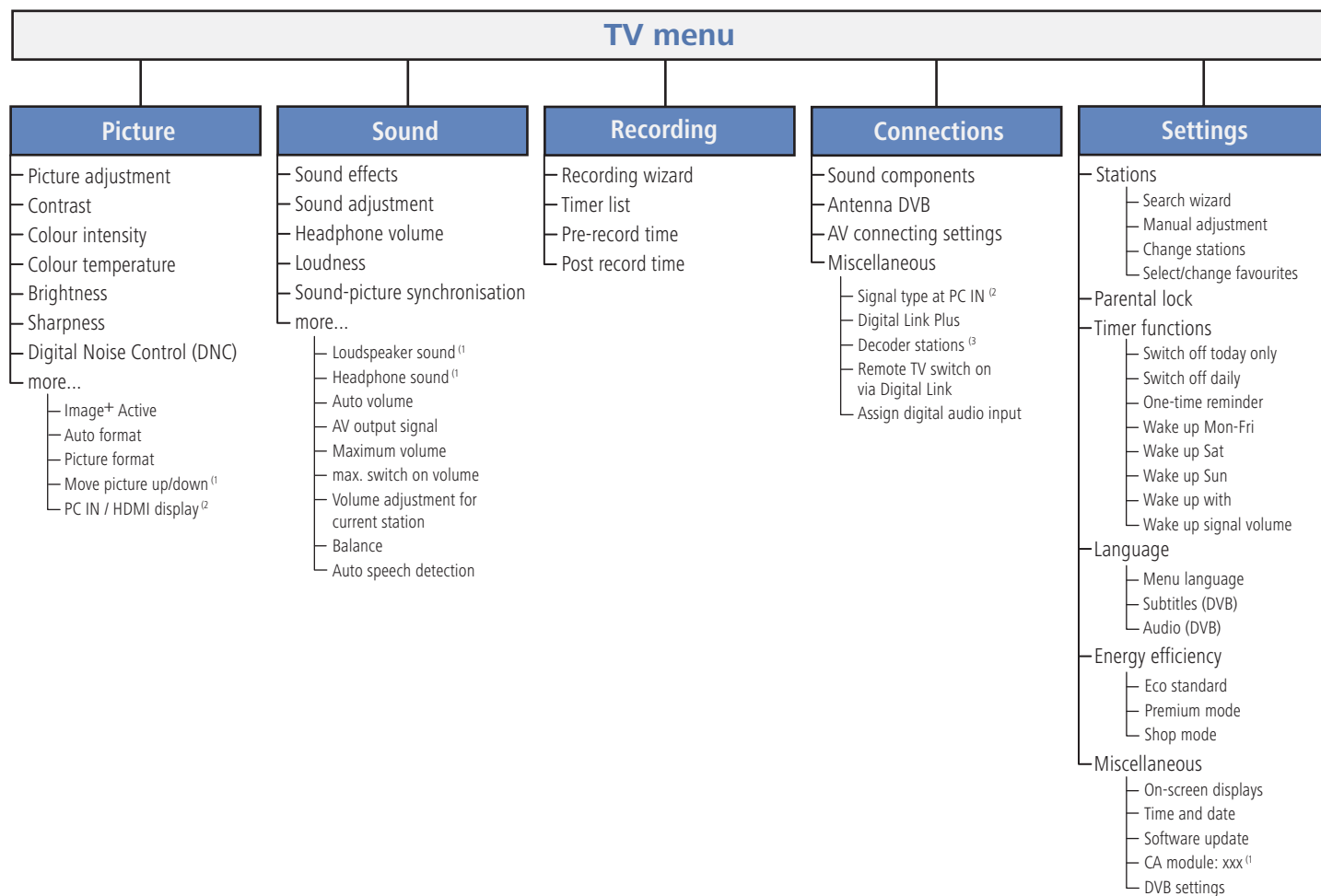


**MENU:** Call **TV menu**.

- ◀ ▶ 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 **Automatic info**,  
▼ go to the menu line below: **yes / no**.

# Operating convenience

## TV menu – Overview diagram



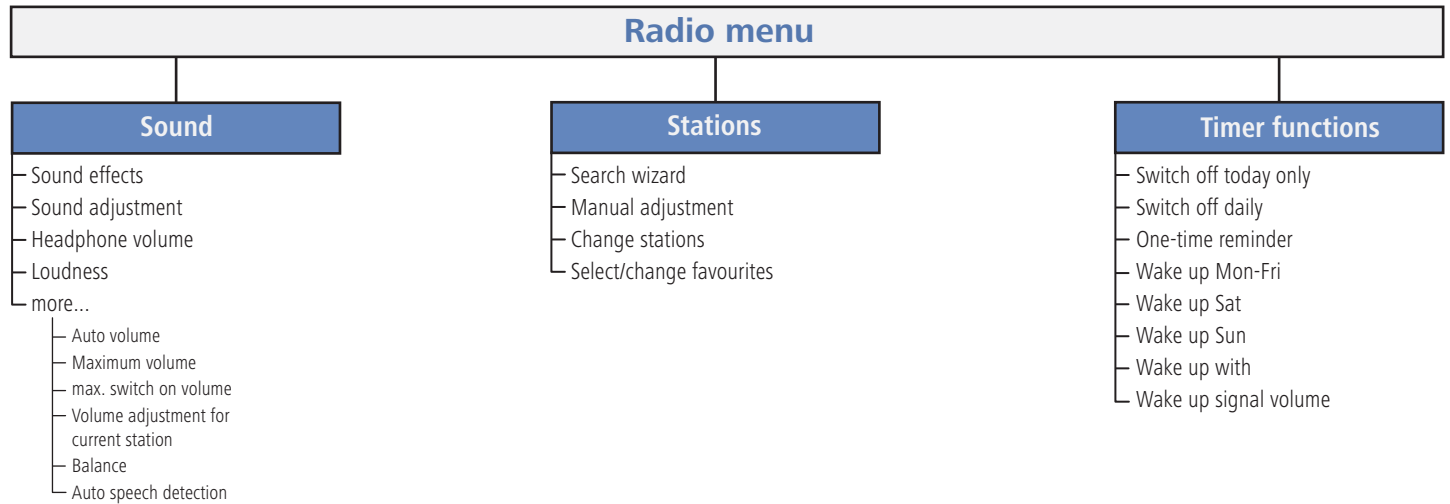
<sup>1</sup> Menu items appear depending on the signal source currently selected (DVB or analogue) and/or at definite presets in the relevant menus. For individual details, see the corresponding chapter of the operating instructions.

<sup>2</sup> Menu item can only be selected if a valid signal is present at the PC IN/HDMI input.

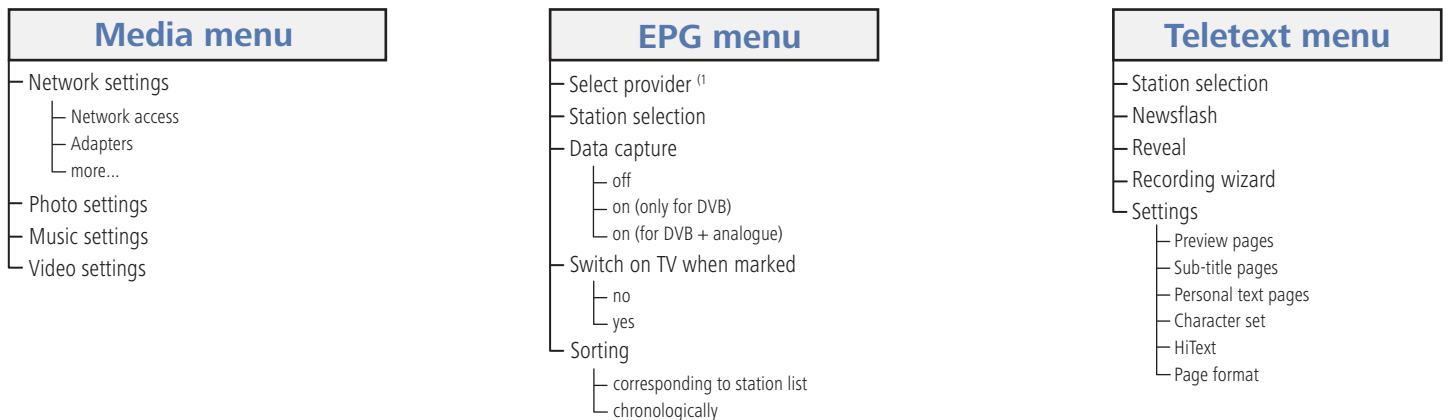
<sup>3</sup> Menu item only available if a Decoder has been selected as Device at connection AV (see page 72).

# Operating convenience

## Radio menu – Overview diagram



## Other menus – Overview diagram



# Initial installation

## Installing the TV set

### Installation notes

Choose a place for installing your TV where no bright light or sunlight shines directly onto the screen. This could cause reflections which impair the picture.

3 times the screen diagonal can be taken as a guide value or the viewing distance (for 26-inch set approx. 2m for SD signal). The viewing distance can be reduced with an HD signal.

## Set covers

### Covers for rear and side connections

To remove the rear cable cover, pull the two recessed handles at the bottom and drop down the cover.

To fit the cover, insert the lugs at the top edge of the cover into the corresponding cut-outs in the rear panel and push up the cover until it snaps in.

The side cover of the TV set can also be completely removed. For this, open it as far as it will go and gently pull on the open cover.

The cover detaches from the holder and gives free access to the connection area. To replace the cover, simply push it until it latches back into place.



# Initial installation

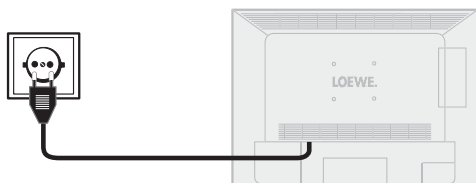
## Connecting the TV Set

### Connecting to the mains

Remove the cover for the connections.

Connect the TV set to a 220-240V mains socket:

Plug the mains plug into a mains socket.



### Connecting antennas

Cable (analogue) / DVB-C / DVB-T antenna:

Plug the antenna cable of antenna, cable system or room antenna into the **ANT TV** socket.

If you want to use analogue cables / DVB-C connection and a DVB-T antenna together, use an external antenna switch (available from your dealer).

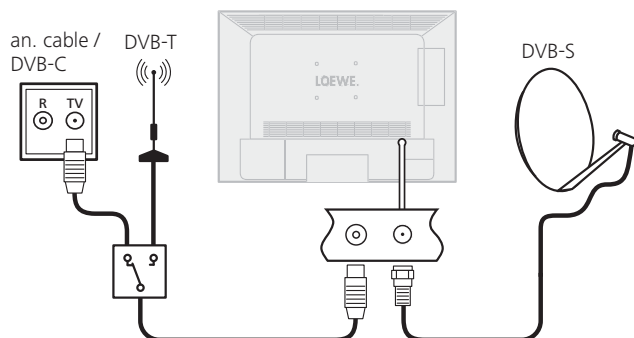
Satellite antenna DVB-S:

If the TV set is equipped with a satellite tuner (retrofit kit), the **ANT-SAT** socket is available.

Depending on the used satellite system, connect a connecting cable from the multi-switch or directly from the LNC to the **ANT-SAT** socket of the TV.

When connecting the TV set to a single cable community antenna, connect the **ANT-SAT** socket directly to the appropriate SAT antenna socket.

Ask your dealer if required.

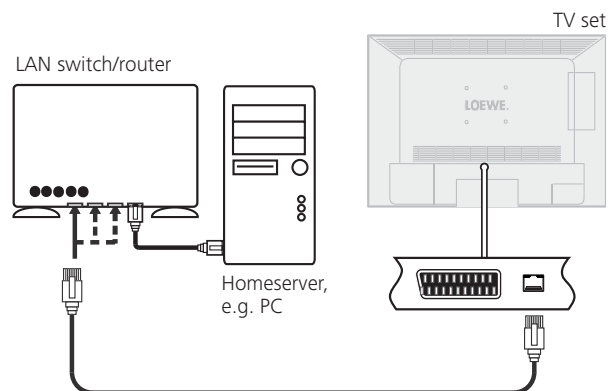


### Connecting the TV set to the Home network

You can connect your TV set to the home network by a **wired connection** (Ethernet, Powerline). Please contact your specialist dealer for more information on Powerline.

### Example for a wired connection

Connect the LAN socket of your TV set to the LAN switch/router of your home network with a network cable (available from your dealer).



# Initial installation

## Preparing the remote control unit

### Inserting or replacing batteries

Press on the embossed arrow whilst pushing the battery cover down.

Only use leak-proof micro-cells of the LR 03 (AAA) Alkali-Manganese type. Do not use different types of batteries and old and new batteries together.

Pay attention to the correct polarity of + and – when inserting the batteries.

If the batteries are too weak after longer use, the TV set prompts you to change the batteries.

Dispose of used batteries in an environmentally friendly way (see page 99).

Push the cover back on from below after inserting the batteries.



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

TV

Press the **TV button**.

See page 85 for how to operate other Loewe appliances and how to reprogramme the remote control buttons.

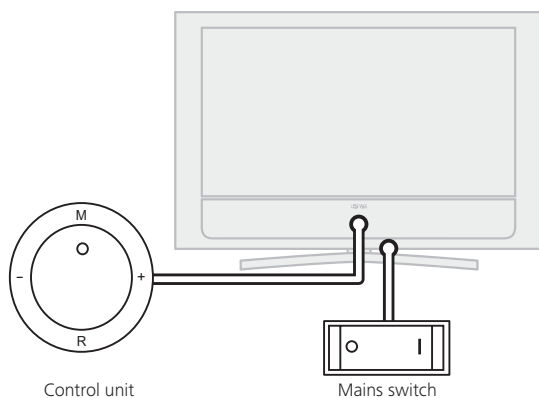
# Initial installation

## Turning the set on/off

### Switching the TV set to standby mode

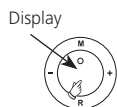
Press the mains switch on the bottom right of the set.

The display in the control panel on the front lights up first orange and then red. The set is now in standby mode.



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

To switch the TV set into Operating mode or switch it off into Standby mode, press the middle of the On/Off button for about 2 seconds.



Meaning of the display colour of the LEDs in the On/Off button:

**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  
**MEDIA button** – MediaPortal 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 **AUDIO button** on the remote control (radio mode, see page 50).

# Initial installation

## First installation wizard

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

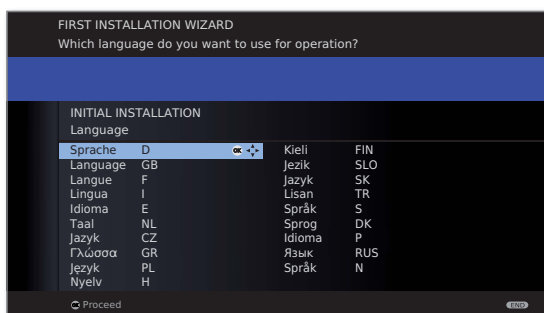
This wizard starts automatically after the set is switched on for the first time, however it can also be called later manually in the TV index, see **Repeat initial installation** on page 15.

- ▶ If at least one station is locked the access code must be entered before repeating initial installation (see Parental lock on page 52).

### First installation wizard routine

The routine of the first installation wizard depend on the selected settings.

#### Language

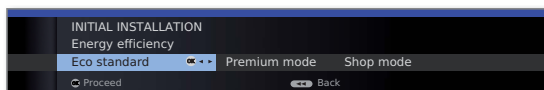


▲ ▼ ◀ ▶ Select **language**.

Selecting the language of the user guidance is the wizard's first step. Then you simply follow the instructions on your TV screen.

**OK Proceed.**

#### Energy efficiency



◀ ▶ Select **Energy efficiency**.

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.

**Energy efficiency (continued)**  
**Eco standard:**  
The emphasis for home use is on low energy consumption.

**Premium mode:**  
This mode optimises the settings to a brighter environment at a higher energy consumption.

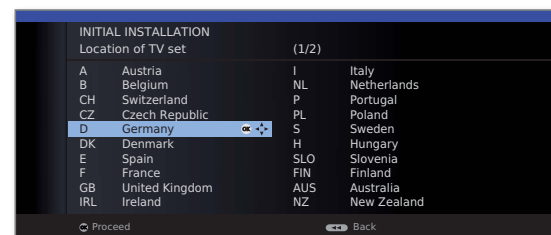
**Shop mode:**  
The picture settings are aligned to operation in the presentation room.

The presetting can be changed later in the **TV menu** under **Picture** → **Picture adjustment** → **Presettings** (see page 34) or under **Settings** → **Energy efficiency**.

**OK proceed.**



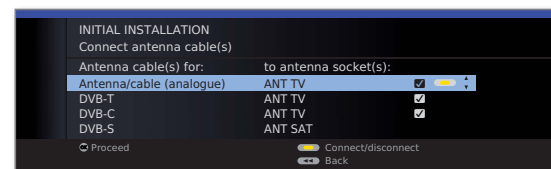
#### Location of TV set



▲ ▼ ◀ ▶ Select **Location of TV set** (national defaults are adopted).

**OK Proceed.**

#### Selecting antennas



▲ ▼ Select antenna cable.

**Yellow button: Connect/disconnect** antenna cable.

**Antenna/cable (analogue):** analogue stations via cable/antenna  
**DVB-T:** digital terrestrial stations  
**DVB-C:** digital stations via cable  
**DVB-S:** digital stations via satellite

continued on next page →

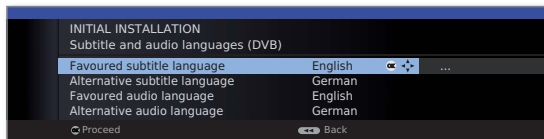
# Initial installation

Selecting antennas (continued) DVB-S can only be selected if the set is equipped with a satellite tuner. Depending on which antenna(s) was (were) selected, the appropriate settings are called later during the routine.



**OK proceed.**

Subtitle and audio languages (DVB)

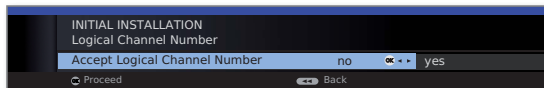


▲ ▼ ◀ ▶ Select desired languages and alternative languages for subtitles and audio for DVB programmes (see page 53).



**OK Proceed.**

Logical Channel Number



◀ ▶ Accept Logical Channel Number **no / yes.**

In various countries, digital stations (DVB-T, DVB-C, DVB-S) are transmitted with a preset channel number per station, known as "Logical Channel Numbers" – "LCN".

If you indicate **yes** here, the specified programme numbers will be adopted as station memory locations and the stations of the preferred signal sources sorted by LCN. There may be gaps in the numbering of the station list depending on the LCN.

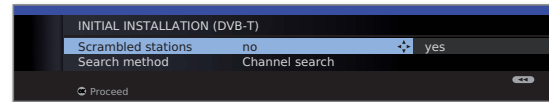
**OK Proceed.**

Depending on which antennas (DVB-T, DVB-C, DVB-S) were selected, the appropriate settings appear below.

## Setting options for DVB-T reception:

If you have not selected a DVB-T antenna in the antenna selection: Continue with **setting options for DVB-C reception** on page 24.

Settings



▲ ▼ ◀ ▶ Select and adapt settings for DVB-T reception.



Encrypted stations

You can state whether coded stations are to be searched for in the search/update. Select **yes** 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 55.

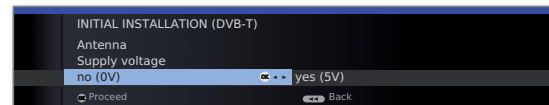
If a CA module with a SmartCard is already plugged in for the station search, all the stations which this module can descramble are also saved when **no** is preset.

Search method

If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

**OK Proceed.**

Supply voltage



◀ ▶ Select supply voltage **no / yes.**

Use a DVB-T antenna that requires a supply voltage (active antenna) and which is not already supplied via a power adapter, then select **yes (5V)** for the antenna's power supply.

How to align your DVB-T antenna is described on page 29.

**OK Proceed.**



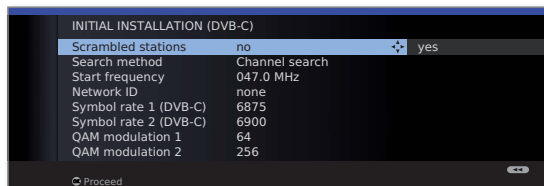
# Initial installation

## Setting options for DVB-C reception:

If you have not selected a DVB-C antenna in the antenna selection: Continue with **Setting options for DVB-S reception** (see right hand column).

The normal DVB-C settings are derived from the selection of the location and do not need to be changed.

Settings



▲ ▼ ◀ ▶ Select and adapt settings for DVB-C reception.

Encrypted stations

You can state whether coded stations are to be searched for in the search/update. Select **yes** 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 55.

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 **no** is preset.

Search method

If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

Start frequency

The DVB stations are only searched for in the frequency range above the start frequency.

Network ID

Only change these defaults if you are familiar with other symbol rates and types of modulation 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.

Symbol rate

QAM modulation

Your cable provider has the information you need.



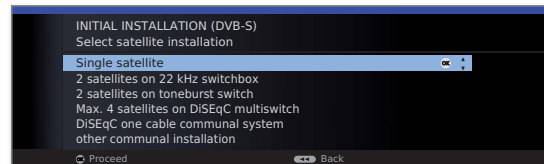
**OK Proceed.**

## Setting options for DVB-S reception:

If you have not selected a DVB-S antenna in the antenna selection: Continue with **Setting options for all types of reception** on page 28.

The normal DVB-S settings are derived from the selection of the location and do not need to be changed in most cases.

Select satellite installation



▲ ▼ Selecting the satellite system.

Specify how you receive which satellite(s) (single satellite or type of satellite system). Ask your dealer if required.

Single satellite

Reception of a single satellite via a connected LNC (LNB). See page 25 for settings.

2 satellites on 22 kHz switchbox

Reception of two different satellites with two LNCs (LNBS) which are connected to the TV set by a 22 kHz switchbox. See page 25 for settings.

2 satellites on toneburst switch

Reception of two different satellites with two LNCs (LNBS) which are connected to the TV set by a toneburst switch. See page 25 for settings.

Max. 4 satellites on DiSEqC multiswitch

The TV set controls a DiSEqC multiswitch to which up to four LNCs (LNBS) for different satellites are connected. See page 26 for settings.

DiSEqC one cable communal system

Select setting if the TV set is connected to a DiSEqC single-cable system (according to EN 50494). Several Sat receivers can be connected to one Sat cable. See page 26 for settings.

other communal installation

Select setting if the TV set is connected to a single-cable system (without DiSEqC). Several Sat receivers can be connected to one Sat cable. Unlike a DiSEqC single-cable system there are restrictions in the range of certain reception frequencies in single-cable community systems. See page 27 for settings.



**OK Proceed**

(to the appropriate page of the satellite system).

# Initial installation

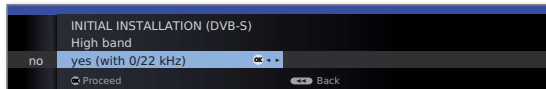
## Setting options for the satellite system (single satellite):

Select single satellite



▲ ▼ Select satellite,  
**OK Proceed.**

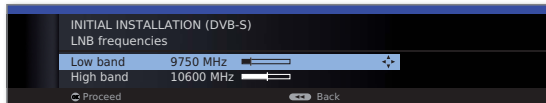
High band



◀ ▶ High band **no / yes**.  
Specify here whether the high band of the selected satellite is to be searched in addition to the low band.

**OK Proceed.**

LNB frequencies



◀ ▶ Set LNB frequencies.  
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).

**OK Proceed.**  
(with **Setting options for DVB-S reception (continued)** on page 27).

## Setting options for the satellite system (2 satellites on 22 kHz switchbox / 2 satellites on toneburst switch):

Satellite selection



▲ ▼ Select **Satellite 1 / Satellite 2**,  
▶ select satellites from list,  
**OK Proceed.**

LNB frequencies  
(22 kHz switchbox)



LNB frequencies  
(toneburst switch)



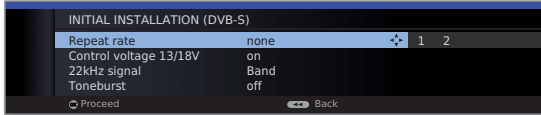
◀ ▶ Set LNB frequencies.  
Normally, you do not need to change the values for high and low band, unless the LNC (LNB) of your satellite system uses a different oscillator frequency (important for the frequency display).

**OK Proceed.**  
(with **Setting options for DVB-S reception (continued)** on page 27).

# Initial installation

## Setting options for the satellite system (max. 4 satellites on DiSEqC multiswitch):

Settings  
DiSEqC  
multiswitch



▲ ▼ ◀ ▶ Select and adapt settings for the DiSEqC multiswitch.

**Repeat rate** The refresh rate determines how often a DiSEqC command is output. A refresh is only necessary with cascaded systems.

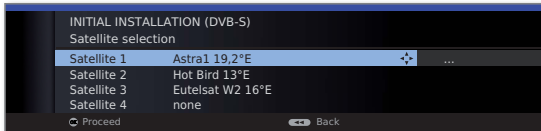
**Control voltage** The control voltage controls the switching of the polarisation level (horizontal/vertical) in non-DiSEqC capable components (e.g. control of single LNBs via DiSEqC multiswitch).

**22kHz signal** The 22kHz signal controls the switching between high and low band in the **Band** setting. The **Position** setting controls the selection of the satellites in non-DiSEqC capable components.

**Toneburst** The Toneburst controls the selection of the satellites in non-DiSEqC but toneburst capable components with the **Position** and **Option** settings.

**OK Proceed**

Satellite  
selection



▲ ▼ Select **Satellite 1 ... Satellite 4**,  
▶ select satellites from list,  
**OK Proceed.**

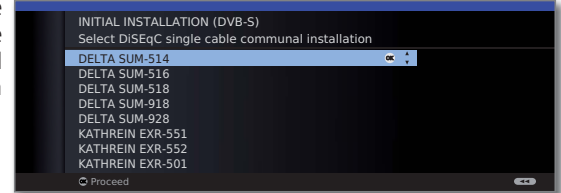
LNB  
frequencies



◀ ▶ Set LNB frequencies.  
You do not normally need to change the values.  
**OK Proceed.**  
(with **Setting options for DVB-S reception (continued)**  
on page 27).

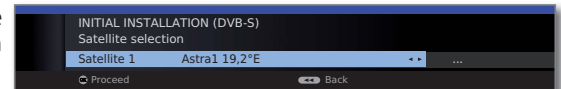
## Setting options for the satellite system (DiSEqC one cable communal system):

DiSEqC one  
cable  
communal  
system



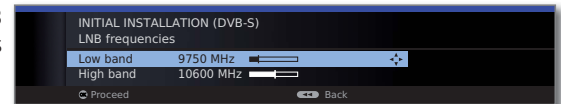
▲ ▼ Select DiSEqC single cable communal installation.  
**OK Proceed.**

Satellite  
selection



▶ Select satellites from list,  
**OK Proceed.**

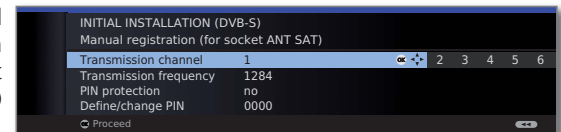
LNB  
frequencies



◀ ▶ Set LNB frequencies.  
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).

**OK Proceed.**

Manual  
registration  
(for socket  
ANT SAT)



▲ ▼ ◀ ▶ Select and adjust settings for the DiSEqC single cable communal installation.

**Transmission channel/frequency** Select the desired transmission channel and the corresponding transmission frequency.

**PIN protection** If your system is designed for it, it is possible to protect your used transmission data from use by other subscribers with a PIN.

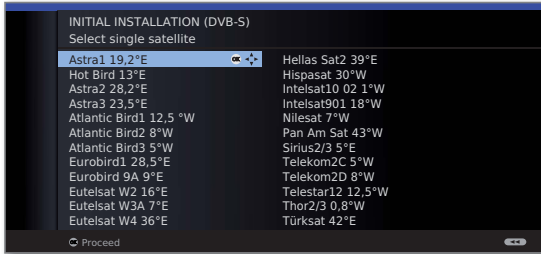


**OK Proceed.**  
(with **Setting options for DVB-S reception (continued)**  
on page 27).

# Initial installation

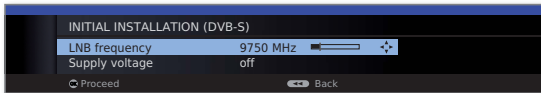
## Setting options for the satellite system (other communal installation):

Select single satellite



▲ ▼ Select satellite,  
**OK Proceed.**

LNB settings



▲ ▼ ◀ ▶ Select and adapt settings.

LNC frequency

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).

Supply voltage

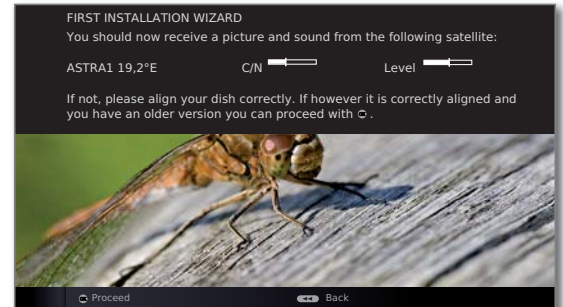
If your set is connected to a single-cable system without external voltage supply, you can connect the antenna supply (13V or 18V / max. 450mA).



**OK Proceed.**  
(with **Setting options for all types of reception** on page 28).

## Setting options for DVB-S reception (continued):

Test reception

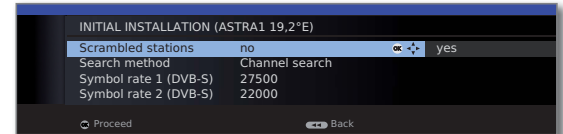


After you have made the previous settings, you should receive picture and sound of the selected satellites (only possible for Astra1 and HOTBIRD).

**OK Proceed.**



Settings



▲ ▼ ◀ ▶ Select and adapt settings.

If several satellites are received, the following settings must be made for every satellite. The scope of the settings may differ depending on the selected satellite.

Encrypted stations

You can state whether coded stations are to be searched for in the search/update. Select **yes** 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 55.

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 **no** is preset.

Search method

If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

Symbol rates

The symbol rates are specified by the satellite provider and do not normally need to be changed.

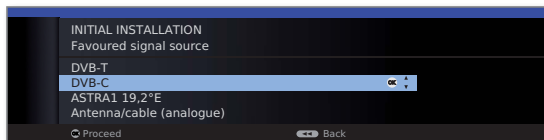


**OK Proceed.**

# Initial installation

## Setting options for all types of reception:

Favoured signal source



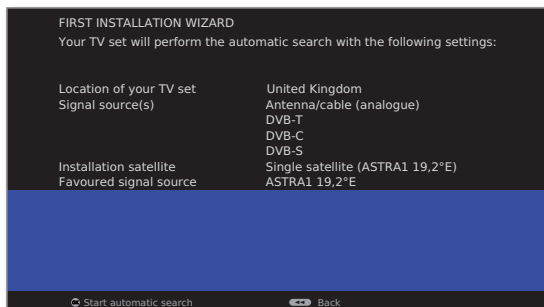
▲ ▼ Select favoured signal source.

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).

The listed signal sources depend on the selected antennas and, if the set is equipped with a satellite tuner, the type of satellite system used and the received satellites.

**OK Proceed.**

Overview of settings for station search



You will see a list of the selected settings. You can go back in steps with the ◀ button to make any changes to the settings.



**OK Start automatic search.**

The set now searches for TV and 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.

Info  
TV stations

**FIRST INSTALLATION WIZARD**  
The automatic TV station search and sorting has ended.  
966 new TV station(s) has (have) been found.



The number of found TV stations is displayed.

**OK Proceed.**

Structure TV station list

**FIRST INSTALLATION WIZARD: STRUCTURE OF TV STATION LIST**  
The TV stations found in the automatic search were divided into appropriate station blocks according to the previously selected antenna cables (signal sources). The stations can only be reorganised later within these blocks. The block with the stations of your favoured signal source is at the top of the station list.

Signal source	Associated station numbers
ASTRA1 19,2°E	1- 900
DVB-C	901-1300
DVB-T	1301-1400
Antenna/cable (analogue)	1401-1500

The structure of the TV station list is displayed.

**OK Proceed.**



Info  
radio stations

**FIRST INSTALLATION WIZARD**  
The automatic radio station search and sorting has ended.  
336 new radio station(s) has (have) been found.



The number of found radio stations is displayed.

**OK Proceed.**

Structure radio station list

**FIRST INSTALLATION WIZARD: STRUCTURE OF RADIO STATION LIST**  
The radio stations found in the automatic search were divided into appropriate station blocks according to the previously selected antenna cables (signal sources). The stations can only be reorganised later within these blocks. The block with the stations of your favoured signal source is at the top of the station list.

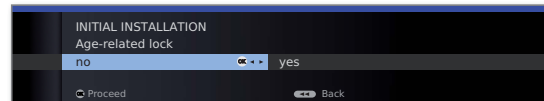
Signal source(s)	Associated station numbers
ASTRA1 19,2°E	1- 300
DVB-C	301-500
DVB-T	501-700
Antenna/cable (analogue)	701-900

The structure of the radio station list is displayed.

**OK Proceed.**



Age-related lock



◀ ▶ Select **Age-related lock.**

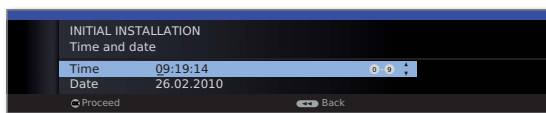
You can specify an age limit for your TV set here. DVB broadcasts which have an appropriate age identification are locked and can only be watched after entering the access code (see page 52).

**OK Proceed.**

continued on next page →

# Initial installation

Time and date

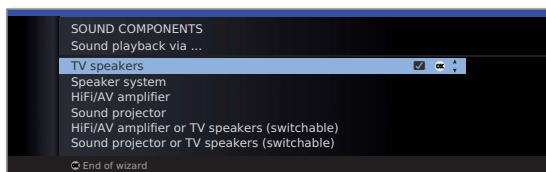


- ▲ ▼ Select time / date.

If no values or no correct values have been entered for the data and time, enter the correct values with the numeric buttons here.

**OK Proceed.**

Sound playback  
via ...



- ▲ ▼ Select sound components.

This selection indicates which sound components you want to use to hear your TV sound. Depending on the selection, the sound component wizard starts with which you can make further settings.

The sound component wizard is described from page 79 and can also be started at any time outside of first time operation (**TV menu** under **Connections** → **Sound components**).

**OK End of wizard.**

## 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.

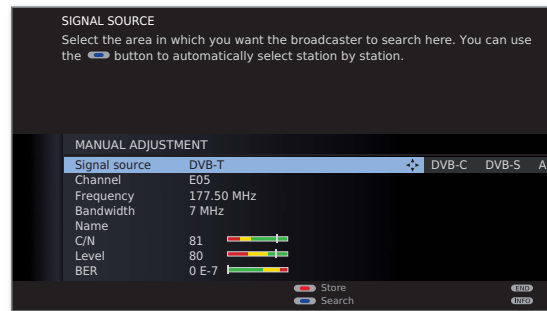
- ➡ In normal TV mode, without other displays. A DVB-T station is received and selected.



**MENU:** 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**.

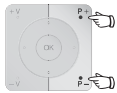
Then position/align the antenna to the weakest station so that maximum values for **C/N** and **Level** are obtained. The value for **BER** should be as low as possible.

Thereafter perform an automatic search for all DVB-T stations (see page 40).

# Daily operation

## Select station

### Selecting stations with the P+/P- buttons of the remote control



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

The status display with station title, progress bar, time and sound identification signal is shown briefly (see page 38).

- ➔ If Favourites are selected, you can change to the corresponding station in the Favorites list using **P+/P-** (see page 31).
- ➔ The symbols for the sound identification are described on page 38.
- ➔ 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 39: Selection possibilities for DVB stations.

### Selecting stations with the numeric buttons of the remote control



long

#### 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 Favorites are selected, you can change to the corresponding station in the Favorites list using the numeric keys (see page 31). Maximum two-digit station numbers are possible.
- ➔ If you select an unoccupied station slot, the next available station is switched to.

### Selecting stations with the station list

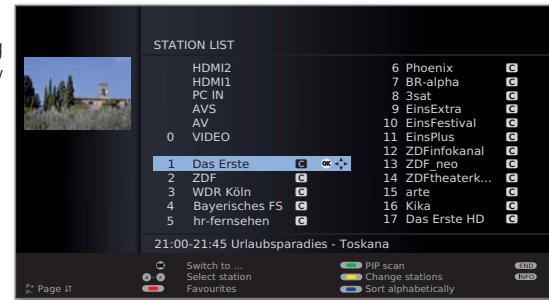


- ➔ In normal TV operation, without further displays, no favourites selected:

#### OK Call Station list.



Sorting numerically



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



**Left/Right** Jump to the next station block.



**Up/Down** Mark stations.

OR:

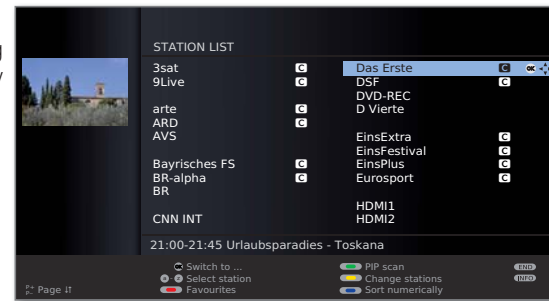
Enter the number of the station with the **numeric buttons**. The marked station is shown as a small picture.

**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 12).

The first station for the specified letters is marked.

**Up/Down** Mark stations.


**OK** The marked station is called..


# Daily operation


## Selecting stations 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 43).


➡ In normal TV mode, without other displays:


 **OK** calls the station list.

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


 **Favourites**  
FavouriteList 1  
1 Das Erste C  
2 ZDF C  
3 WDR Köln C  
4 Bayerisches FS C  
5 hr-fernsehen C  
6 Phoenix C  
7 BR-alpha C  
8 3sat C  
9 EinsPlus C  
10 EinsExtra C  
11 MTV C  
12 VIVA C  
Switch to ...


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


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

 ▲ ▼ Mark stations.  
◀ ▶ 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 43.

## 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:

- T** DVB-T station (digital terrestrial via antenna)
- C** DVB-C station (digital via cable)
- S** DVB-S station (digital via satellite)
- C** Coded station
- CI+** CI Plus coded station
- A** Locked station (see Parental lock on page 52)

## Selecting Audio/Video Source

### Selecting AV source with the AV selection

➡ In normal TV mode, without other displays:



Call **AV selection**.



▲ ▼ Select desired connection,  
**OK** switch over.

If the selected AV source provides a signal (picture), it should be visible now.

For the **VIDEO** selection the set switches to programme place 0 (signal source antenna/cable (analogue), factory setting channel E36). The TV set shows the signal of a provider via antenna (see page 75). The channel can be changed as required (see page 41).

### Selecting AV source with the station list

➡ In normal TV mode, without other displays:

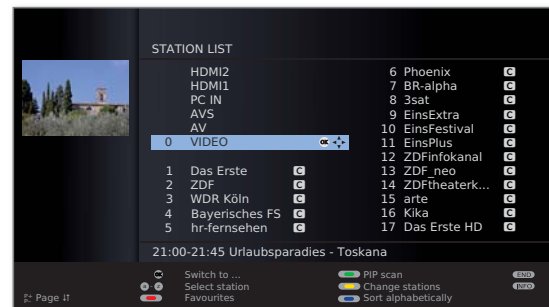


**OK** Call the station list.

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

The connections are always at the beginning of the list in numerical sorting.

The connections are sorted into the list in alphabetical order in alphabetic sorting.



▲ ▼ ◀ ▶ Select connection.  
**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

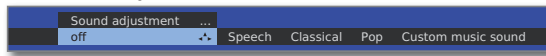


**V+ / V-** Volume louder / quieter.  
The volume bar will be shown briefly if no other menu is displayed.

### Call Sound adjustment



Call **Sound adjustment**.



Select sound adjustment by pressing several times.

or:



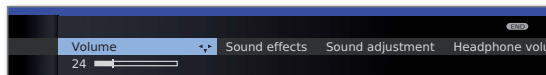
◀ ▶ Select sound adjustment.

### Other sound settings in volume setting and sound adjustment

⇒ As long as the volume bar or the selection of the sound adjustment is still visible:



▲ 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.



**MENU:** Call **TV menu**.



◀ ▶ Select **Sound**,  
▼ go to the menu line below.  
◀ ▶ Select desired sound setting (right column),  
▼ go to the menu line below.  
◀ ▶ Make changes.

### Explanations of the sound settings:

**Sound via** Playback over the TV speakers, active speakers or an external hi-fi amplifier.

The selection active speakers or hi-fi/AV amplifier is only possible if these have been logged in in the audio component wizard.

The menu item **Sound via** does not appear if **TV speakers** or **TV speakers + active subwoofer** is set in the audio components wizard.

**Sound effects** Set sound effects Stereo, Panorama, 3D Surround. **Panorama** gives the stereo sound a virtual base widening. **3D Surround** converts a stereo signal into a virtual surround signal.

**Sound adjustment** Speech, Classical, Pop, Custom music, and Custom film sound.

**Headphone volume** 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/  
Headphone 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 signal You can indicate here which sound is output via the AV socket for dual sound programmes: Sound 1 (e.g. main language), sound 2 (e.g. foreign language), or sound 1+2 (both simultaneously).
- Maximum volume Determining the maximum volume that can be set.
- max. switch on volume Specify the volume that is set when switching on the TV set with the mains switch.  
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 adjustment for 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 **P+ / P-** and adjust every single station conveniently.
- Balance Set stereo balance so that the volume impression is identical on the left and right.
- Auto speech detection If the automatic speech detection is activated, the sound of the current programme is automatically output with optimum comprehensibility when speech is detected.

# Daily operation

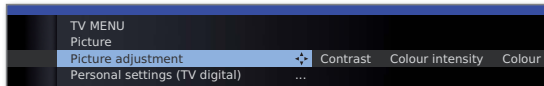
## Adjusting the picture



**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** You can switch between three fixed picture setting variants and the three personal picture values that you have set here (see right hand column).

**Contrast** The contrast setting depends on the brightness of the room. The brighter the surroundings the higher the contrast should be set. The power consumption of the TV set is directly dependent on the value set here (see also page 22).

**Colour intensity** Set the colour intensity to suit your personal taste. The colours should appear natural.

**Colour temperature** Here, you can give the TV picture a warmer or colder hue according to your personal taste.

**Brightness** Set the brightness so that the black areas of the picture only just appear black.

**Sharpness** Here you can adjust picture sharpness to obtain the best definition.

**Digital Noise Control (DNC)** With active DNC (Digital Noise Control) you can eliminate or reduce picture noise.

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

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

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

**Picture format** Set picture format (see page 35).

**Move picture up/down** Move picture vertically (see page 35).

## Presettings / Personal settings for picture adjustment

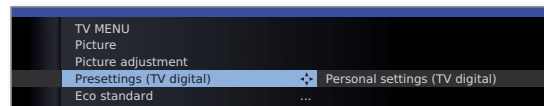


**MENU:** Call TV menu.



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

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



- ◀ ▶ Select **Presettings** or **Personal settings**.
- ▼ For presettings, go to the menu line below.

- ◀ ▶ Select the desired presetting for the picture.

**OK** Confirm selection.

### Explanations for Picture adjustment:

If you select **Presettings**, the picture settings for the signal input group currently active are set to predefined values. See Glossary for an explanation: **Signal input groups**.

Your own settings for contrast, colour intensity, colour temperature, brightness, sharpness and digital noise suppression are saved in the personal values. At the same time, you have your own personal values for each signal input group.

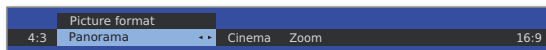
All picture and sound adjustments can be reset to the default values in one step for all signal input groups in the index of the TV set under **Reset picture/sound** or **Factory settings picture/sound**.

# Daily operation

## 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.

## 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 above 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 or HDMI2, 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** ▲ ▼.

# Daily operation

## Button functions

Every operating mode of the TV set (TV, Radio, MediaPortal, Teletext, EPG and PIP) 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



**Red button:** Freeze on/off.

In TV broadcasting networks with interactive data services: Start application (see page 50).

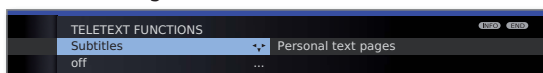


**Green button:** Open the **Teletext functions** menu.

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).

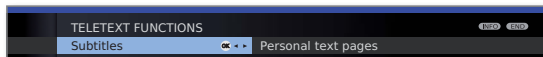
END

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

#### Subtitles DVB stations:

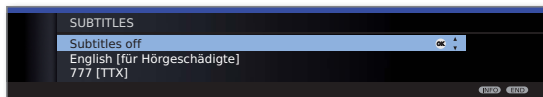
► If the DVB station does not provide any subtitles, the menu item **Subtitles** is greyed out and cannot be accessed with **OK**.

► The DVB subtitles can also be selected via the status display (see page 39).



◀ ▶ Select **Subtitles**,

**OK** call.

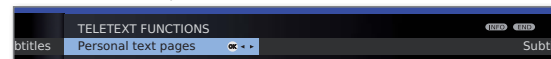


▲ ▼ Select subtitle mode,  
**OK** show/hide subtitles.

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

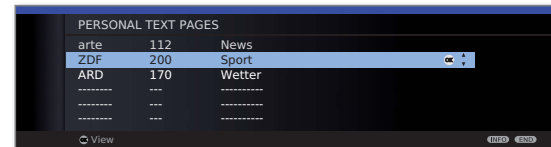


**Green button:** Open the **Teletext functions** menu.



◀ ▶ 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 49.



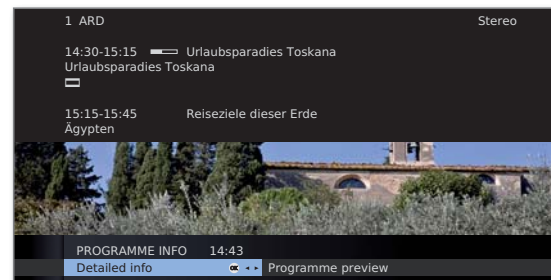
**Yellow button:** Go to the last viewed station.

Use this button to quickly switch back and forth between two stations.



**Blue button:** Show programme info.

The programme info of the following programme is displayed additionally for DVB stations.



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 52).

The symbols may also appear in combinations.

<sup>1</sup> Equipment and upgrade options, see page 97.

# Daily operation

## Permanent display of time



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



The permanent display of the time can also be set in the TV menu under **Settings** → **Miscellaneous** → **On-screen displays** → **Permanent clock display** (see page 54).

The display position of the time depends on the selected setting in the On-screen displays menu (ex-factory: bottom). See page 54 for how to change the display position.

## Operation without remote control

### Changing the station on the TV set



+ / - Station up/down.

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

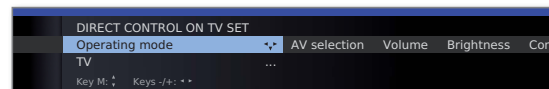


R Radio on or switch between TV and Radio.

### Calling the TV menu on the set



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



- / + select function.

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

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

### Explanations of the settings:

- Operating mode Switch between TV and radio operation.
- AV selection Select AV interface.
- Volume Set volume.
- Brightness Set brightness.
- Contrast Set contrast.  
The power consumption of the TV set depends directly on the value set here (see also page 22).
- Picture format Set picture format (see also page 35).
- Station Select station +/-.
- Service The Service menu item is provided for service purposes by dealers only.

# Daily operation

## Status display

➡ In normal TV mode, without other displays.

INFO

**INFO:** Show status display.



In the upper two lines, you will see the number and name of the station, the title and transmission time of the programme currently showing (if available) and the sound identification signal.

The bar (if available) indicates the progress of the current programme.

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

A menu (see page 39), the time and, if activated, the alarm time and switch-off time appear at the bottom of the screen depending on the DVB station.

The status bar is also shown automatically every time you change channels.

The status bar is hidden automatically at the end of the display time (see page 54 for setting).

If you want to hide the status bar manually before the display time ends, you can only do this with the **END button**.

## Explanations of the symbols for sound identification/display:

Transmitted audio signal:

- Mono** Mono audio transmission analogue
- 2-sound** Two-sound transmission (Sound1/Sound2) analogue
- 1+1** Two-sound transmission (Sound1/Sound2) digital
- Stereo** Stereo sound transmission analogue
  - ⊗ Stereo sound transmission digital (PCM)
- DD Digital** Dolby Digital sound transmission (DD)
  - dts** dts sound transmission
- MPEG** MPEG sound transmission
- PLII** Dolby Pro Logic II sound transmission
- VS Ref** Dolby Virtual Speaker Reference display
- VS Wide** Dolby Virtual Speaker Wide display

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

# Daily operation

## Selection possibilities for DVB stations

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

- ➡ 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 **INFO 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 module 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 50).

- ➡ 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 52).

### Search/update stations – Search wizard

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

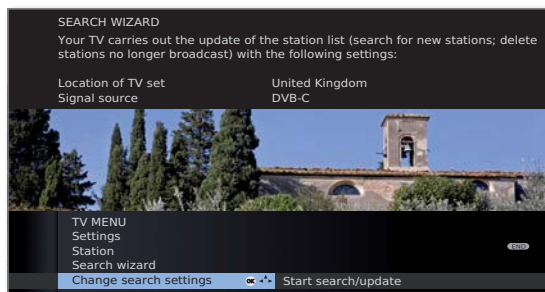
- ➡ You have to repeat the initial installation (see page 22) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones.



**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 (analogue), DVB-T, DVB-C or DVB-S<sup>(1)</sup> here depending on which signal source you want to search for new stations.  
A configuration of DVB-T and DVB-S<sup>(1)</sup> antennas can also be called by the **green button** (see also page 23 and 24).
- 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 55.

**DVB-T** Search method If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

**DVB-C** Settings 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** Settings 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.

<sup>(1)</sup> Equipment and upgrade options, see page 97.

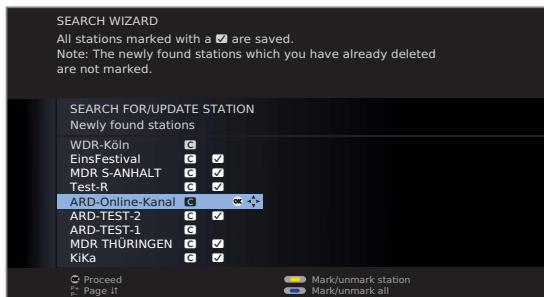
# Managing stations

## 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.



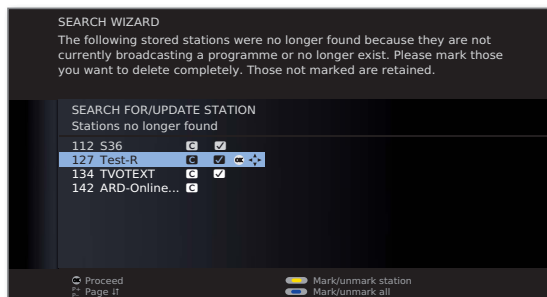
**Yellow button:** Mark / unmark station

**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

**END:** Exit the search wizard.

## Search/update station – manual search / settings

➡ If you want to adapt the parameters of an existing station, first select the appropriate station.

MENU

**MENU:** Call TV menu.

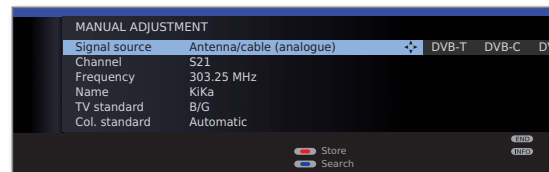


◀ ▶ Select **Settings**,  
▼ go to the menu line below.

◀ ▶ 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 22 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.
- Ask your dealer in this regard.
- Col. standard Input of the station colour standard.
- Ask your dealer in this regard.

# Managing stations

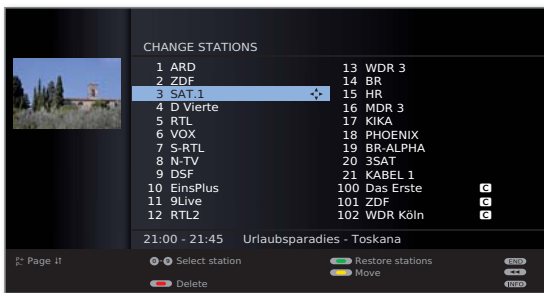
## Change, delete, move, rename, restore station

- ➔ **Change station** can also be called via the station list (page 30).
- ➔ If at least one station is locked the access code must be entered before changing stations start-up (see Parental lock on page 52).
- ➔ In some TV broadcasting networks (e.g. FreeView) you are not allowed to move or rename stations. Use **Favourites** instead.



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.

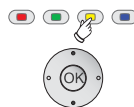
## Delete station



- Red button**: Starts **Delete** station.
- ▲ ▼ Select several stations to be deleted if necessary,  
**OK** to execute the delete.

## Move station / Change order

- ➔ 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

- ➔ 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.



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.

**Yellow button**: Deletes the character before the input position.

**Blue button**: Cancel rename.



**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 31).

MENU

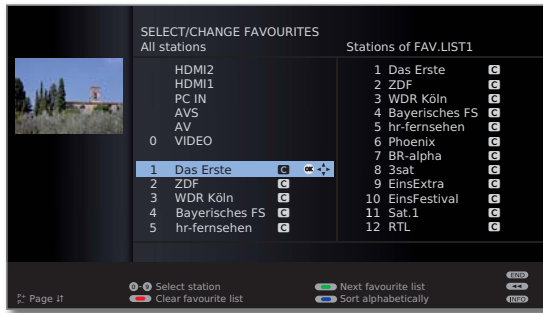


**MENU:** Call TV menu.

- 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 42).



**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.

A green frame around the PIP picture indicates that the station selection affects the PIP picture. A white frame means that the operation refers to the main picture. If the frame is blue, the station play is active in the PIP picture.

### Restrictions for the PIP mode:

- ➡ The selection and combination options for main screen/PIP screen basically depend on the number of receivers (tuners) of the TV set (see Equipment variants on page 97):  
PIP operation is initially limited to AV-PIP (one station and one AV source). If a satellite tuner is retrofitted, PIP operation from digital satellite picture and picture via antenna/cable (analogue) is additionally 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.

### Starting and ending PIP mode

PIP

Show/hide PIP.

### 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.

### Function of the coloured buttons

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

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

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

**Blue button:** Start/stop **PIP scan** in the PIP picture.

# Picture in Picture

## Configure Picture in Picture (PIP) mode

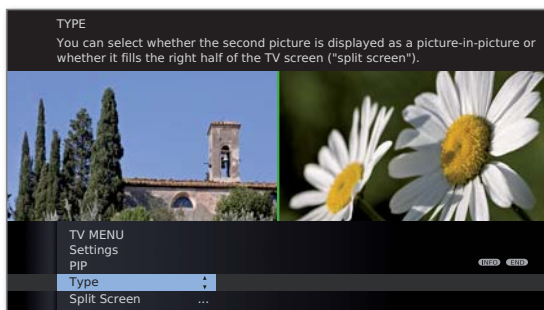
You can set different parameters for the picture in picture mode in the PIP menu.

### Open the PIP menu

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

MENU

**MENU:** Call PIP menu.



### Explanations of the setting options in the PIP menu:

- ▶ Note restrictions for the PIP mode (see page 44).

**Type** You can select whether you want to see your second picture as a superposed **Small PIP** or as **Split screen** picture which takes up the right hand half of the screen (see also right hand column).

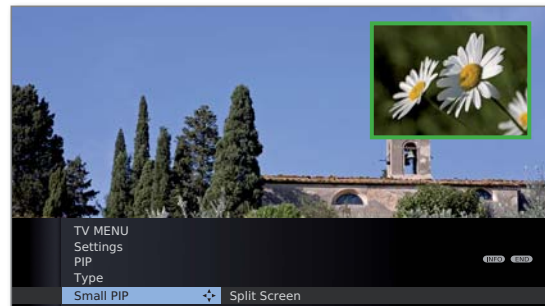
**Position** ▶ The **Position** menu item only appears if the **Small PIP** type was selected.

You can determine the position of the small picture here **upper left, bottom left, bottom right, upper right**.

Without a screen display the position can also be changed with the menu control buttons (see right hand column).

### Switch PIP Type (Small PIP / Split screen)

- ▶ PIP menu is opened.



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

### Change position of Small PIP

- ▶ 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 (see left hand column).

# 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

EPG

**EPG:** Switch EPG on / off.

- ➔ EPG is only available for DVB stations.
- ➔ The first time you start EPG, an assistant will guide you through the necessary presettings.



The display of the programme guide is divided into two branches. The specifications in the upper section limit the scope of the stations displayed in the lower section.



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

### Switching and memorizing with the programme list

- ➔ 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  will appear in front of the station title. The TV will ask at the beginning of a programme 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 47).

- ➔ Programmes can also be noted by the timer overview (see page 83).

### 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 47).

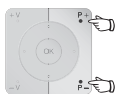
**Time entry** If the line **Time** is selected, then you can enter the time after which the programmes will be displayed, via the numeric buttons of the remote control. The broadcasts are sorted according to the order of the station list within the selected time window.

**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.

# Electronic Programme Guide

## 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.

## Calling additional information about the programmes

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



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 36.

## Programming a recording for a recorder

- ➡ The selection is in the lower programme list, if not, press the **blue button**.
- ➡ The displayed page of the programme list includes the desired programme, otherwise browse to it or suitably limit via the specifications in the lower section.



▼ ▲ Mark the desired programme.



**RECORD button:** Timer data is called up.

Change or confirm timer data if necessary (see page 82, "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.

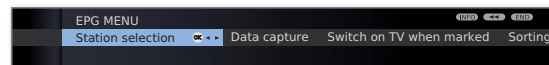
## Configuring EPG

### Start the EPG menu

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



**EPG:** Call the **EPG menu**.



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

**Station selection** In the **station selection** you can determine for which station in the programme guide information is to be displayed. Programme information is only displayed for stations with  in the EPG list.

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<sup>(1)</sup> 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:

- T** Digital terrestrial stations (DVB-T).
- C** Digital cable stations (DVB-C).
- S** Digital satellite stations (DVB-S)<sup>(1)</sup>.

**Data capture** Here you can switch the data entry for the electronic programme guide (EPG) on and off.

If the data entry is switched on, your TV set tries to update the database overnight (normally between 2 and 5 am) or if required two minutes after switching to stand-by mode. The TV set must be on stand-by for this and not switched off at the mains switch.

The indicator on the TV set lights orange during data entry in stand-by mode.

The data are also updated while you are watching the EPG station.

**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**).

<sup>(1)</sup> Equipment and upgrade options, see page 97.

# Teletext

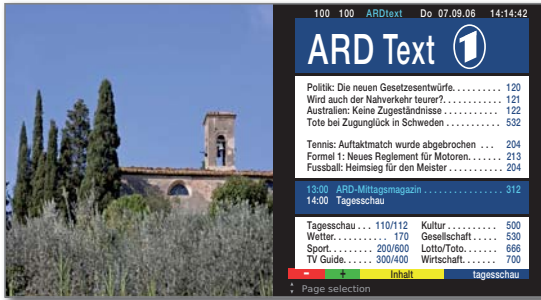
## Teletext

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:** Stop self changing pages.



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



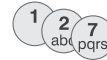
**PIP:** Show / hide TV picture (full screen/split screen).



### Additional page selection possibilities



**1st possibility:**  
Call **overview page 100**.

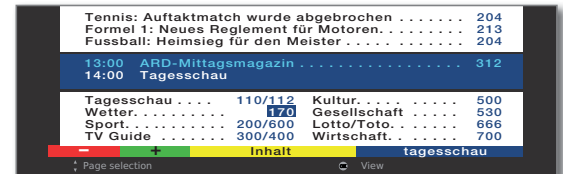


**2nd possibility:**  
Directly enter the page number.



**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).



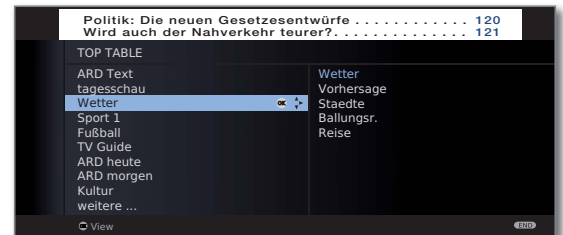
◀ ▶ Page through sub-pages.

### 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 82, "The direct way to record").

**OK** Confirm.

## Changing teletext station

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

⇒ The function is only available if a satellite tuner was retrofitted (see upgrade possibilities on page 97).

⇒ 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** (see page 30) or the current **Favourites list** (see page 31) one after another.

Or:



**MENU:** Call **Teletext menu**.



◀ ▶ Select **Station selection**, **OK** call station.

◀ ▶ ▼ ▲ Select station as in the station list (page 30), **OK** call station.

## Teletext menu

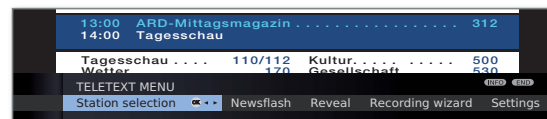
In the Teletext menu you can activate messages, reveal pages and configure the teletext with the **Settings** menu function.

### Starting the Teletext menu

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



**MENU:** 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 <b>Newsflash</b> . 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 <b>OK</b> button. |
| Reveal              | Shows concealed information, e.g. for quiz questions or VPS pages in the programme preview pages.   |
| Recording wizard    | A wizard for <b>recording</b> via teletext helps to programme an external recorder, see also left column.   |
| <b>Settings</b>     | 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 <b>Teletext functions</b> → <b>Personal text pages</b> (in TV mode press <b>green button</b> , see page 36).  |
| 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).   |

# Teletext

## Interactive data services (Digital teletext/MHEG-5)

In some countries, the stations also transmit interactive data services with their programmes (e.g. Digital teletext/MHEG-5), whereby the functions of individual keys are not available or only so to a limited extent.



The symbol indicates which functions can differ for a loaded application.

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.

- ➔ Available in e.g., UK, Ireland, New Zealand.
- ➔ 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 51).

- ➔ The **AUDIO** button has been preset for radio operation in the factory. To change the configuration see page 85.

### Radio mode on



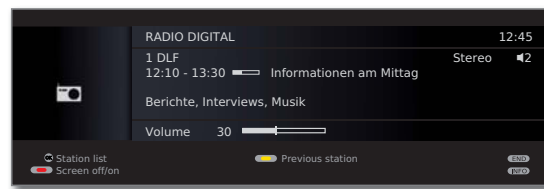
Press **AUDIO** button on the remote control.



Or:

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

You see an information window about the currently set station.



### Station switching

- ➔ The selection of the stations / favourites is the same as the procedure in TV mode (see pages 30 and 31).



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

Or:

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

Or:

**OK** Call station list / favourites.



### Setting the volume



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

Other sound settings are the same as for the volume setting in TV mode (see page 32).

### Sound adjustment




Call **Sound adjustment**.

Other settings as for TV mode (see page 32).

# Digital radio

## Switching the screen on/off

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

The **LED display** on the TV set (see page 10) changes from green to orange.

Switch on the screen with the remote control:  
**Red button**, **AUDIO 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

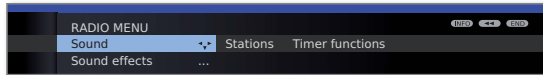
In the Radio menu, you can set the sound, search for and store radio stations (automatically or manually), change stations and set switch off/ alarm functions.  
The settings are made as described in TV mode.

## Call Radio menu

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



**MENU:** 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)

You can also use an electronic programme guide for the DVB radio stations if the radio stations provide programme information.

## Starting and ending EPG

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



**EPG:** Switch EPG on / off.

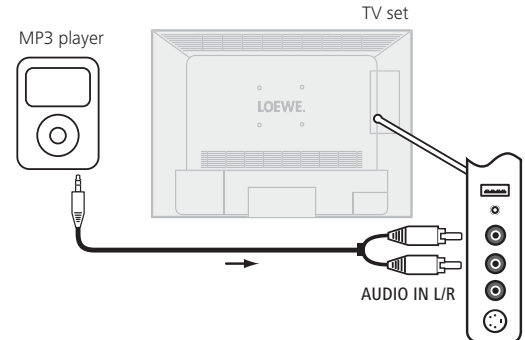
➡ The EPG functions in radio mode are the same as in TV mode. Read from page 46 onwards for further information.

## Audio playback from external devices

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

### Connecting an external appliance (e.g. MP3 player)

Connect the output (jack) of the MP3 player to the cinch audio in sockets L/R (white/red) of the TV set.



Connection example of an MP3 player

## Select AV input

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



**OK** Open station list.

The AV inputs are listed before the first Bayern radio station in a numerically sorted list.



➡ The selection of the AV inputs is the same as in TV mode (see page 31).

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

# 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

**MENU:** Call TV menu.



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

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

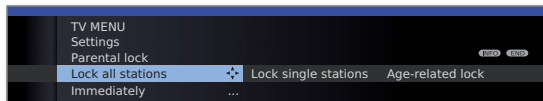


Define a four digit access code (PIN) the first time you open it. The numbers appear in plain text. Note the access code (PIN) well.

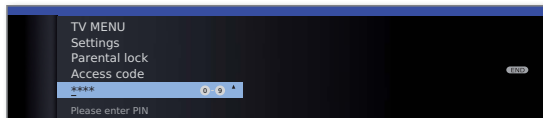


**OK** Confirm the access code (PIN).

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 99. 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 **Immediately** and for a **Daily** 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) 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

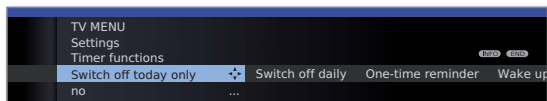


**MENU:** Call TV menu.



◀ ▶ 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

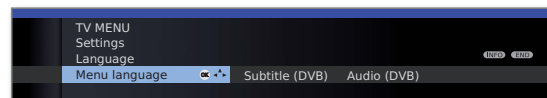


**MENU:** Call TV menu.



◀ ▶ 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 15).

**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.

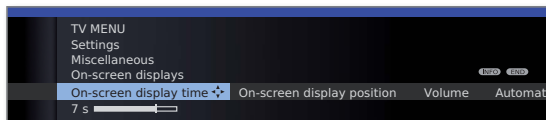
### Call On-screen displays



**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 **yes** 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 15 for further information.

**Permanent clock display** The time can be displayed permanently with this menu item or by pressing the button twice in quick succession (see also page 37). It is always visible as long as no other display is made.

**Automatic HDMI** If you switch to an HDMI programme place to which a Digital Link HD-capable device is connected (see also page 77), a reference to the adapted function of the remote control always appears when **yes** is set.

## 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.

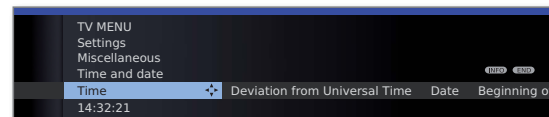
### Call Time and date



**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.

# Coded Stations

## Conditional Access module (CA module)

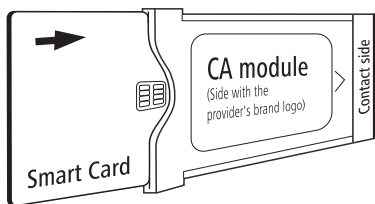
In order to receive coded digital stations, a Conditional Access module (CA module) and a Smart Card must be inserted in the CI slot of your TV set (see page 11).

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

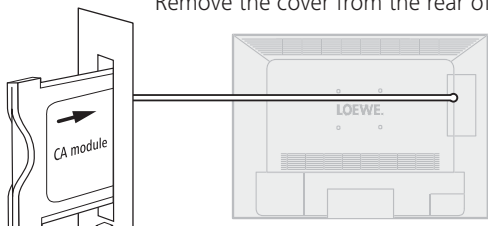
Push the Smart Card into the CA module as far as it goes so that the side with the gold coloured contact chip is facing the side of the CA module marked with the provider's logo. Note the direction of the arrow printed on the Smart Card.



### 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.



Ejector button

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

If you are standing in front of the TV set (display) then the logo on the CA module must be pointing to the rear. 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 and no CA-module was inserted.

MENU



**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.

◀ ▶ Select **Change search settings**,  
**OK** wizard guides you through the search settings.

See page 40 for a description of the search settings.

### Calling CA module information

➡ This menu is only available for digital stations and when a CA module is plugged in.

MENU



**MENU:** Call TV menu.

◀ ▶ Select **CA module: xxx**,  
**OK** call information.

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

The CA module information can also be called up in the **TV menu** under **Settings** → **Other** → **CA module: xxx** (xxx corresponds to the CA module provider).

### Removing the CA module

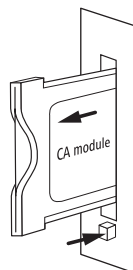
➡ Switch off the TV set's mains switch.

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.

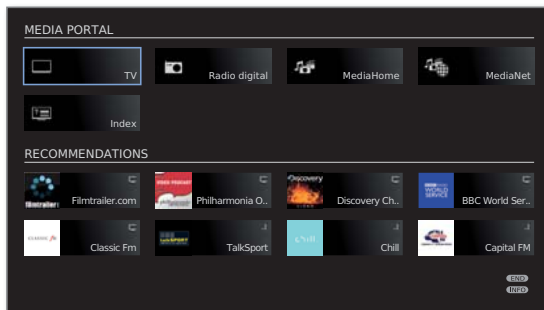
Replace the cover.



## General information on Media+

The **MediaPortal** gives you access to photos, videos and music from your personal storage media, e.g. from storage media connected via USB and from media servers in your home network to which your TV set is connected. You also have access to video sources and music from the Internet.

- ▶ Please follow the information in the right column for the Internet functions.



## Connecting the TV set to your network

To receive media via media servers in your home network or via the Internet, you have to integrate your TV set in your home network. A connection example can be found on page 19.

The TV sets are provided with a standard network configuration ex works (automatic assignment of the IP address via UPnP/DLNA). The TV set can normally have a wired connection to your home network without any problems when using these default settings. For integration in special networks (see also right column), please make corresponding settings in the Media menu (see page 58).

Your Loewe TV set supports the UPnP AV standard for data playback in the home network. You can find more detailed information on this in the technical data on page 94 and in the glossary from page 101 onwards.

## MediaNet

The MediaNet functions (Internet radio and Internet video) require your TV set to have a functional Internet connection (see page 58 onwards and glossary page 101). To use these Internet functions, we recommend registering your TV set at our website at <http://www.loewe-uk.com> (under **Support** → **Register now**). Simply follow the steps in the registration process. To register, you will need to have the MAC address of your TV set to hand. You can find this in your TV's index under **Integrated features – MAC address**.

- ▶ Some of the Internet functions described below may not be available (see also MediaUpdate chapter below). The general availability and range of Internet functions are entirely dependent on the provider. Loewe has no influence over the long-term availability of individual offers.
- ▶ The content shown in the Recommendations area may change from time to time without prior notice.

## Help for configuration problems

Loewe cannot provide any support for PC hardware and software or network components owing to the diverse configuration options with home networks.

Please contact the administrator of your home network and/or specialist dealer for support when setting up and for maintenance of network connections, storage media, media server software and network devices, e.g. routers.

## MediaUpdate - additional functions

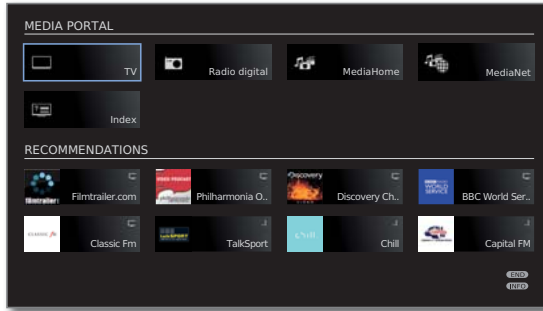
Additional functions in the MediaPortal are planned, particularly for Loewe Media+. You can update your TV set yourself. You can find new software versions as well as further, up-to-date information on this subject under **MediaUpdate** on the website <http://www.loewe-uk.com>.

You can find notes on carrying out a software update on page 86.

## Accessing your media

MEDIA

**MEDIA:** Call **MediaPortal**.



◀ ▶ ▲ ▼ Mark desired function,  
**OK** call function.

**MediaHome:** see page 62.

**MediaNet:** see page 65.

## Playing music and videos, displaying images

The windows for playing music and videos and for displaying photos are comparable for all cases irrespective of the media source. The relevant players are therefore grouped together:

**MediaMusic** (including Internet radio): see page 68.

**MediaPhoto:** see page 70.

**MediaVideo:** see page 71.

## Quit media

MEDIA

Call **MediaPortal** and select other function (see left column).

Or:

TV AUDIO

Press **TV** or **AUDIO button** for changing to TV or radio mode<sup>(1)</sup>.

Oder:

END

Press **END button** in the MediaPortal main level to change to the last active operating mode (TV, radio).

<sup>(1)</sup> The AUDIO key can be assigned another function (see page 85).

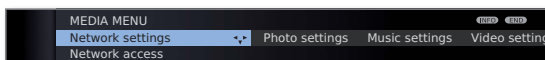
## Media menu

The Media menu is used for making settings to your network adapter and the various types of media (photo, music, video).

⇒ **MediaPortal** is open.



**MENU:** Call / close **Media menu**.



◀ ▶ Select desired menu item,  
▼ go to the menu line below.

◀ ▶ Select the desired setting,  
**OK** call.

**Network settings:** see right column.

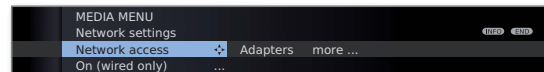
**Photo settings:** see page 61.

**Music settings:** see page 61.

**Video settings:** see page 61.

## Explanation of the setting possibilities in Network settings menu

**Network access** You can activate or deactivate the network settings of your TV set here.



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

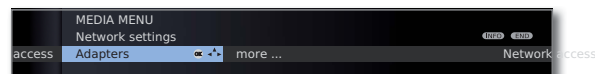
◀ ▶ Select the type of access required.

**On (wired only):** Access to the network possible via a network cable.

**off** deactivates the network adapter of your TV set.

**OK Adopt** access type.

**Adapters** You can change the settings of the installed and connected network adapter(s) step by step here using an assistant.



◀ ▶ Select **Adapters**,  
**OK** call overview of the installed network adapters.

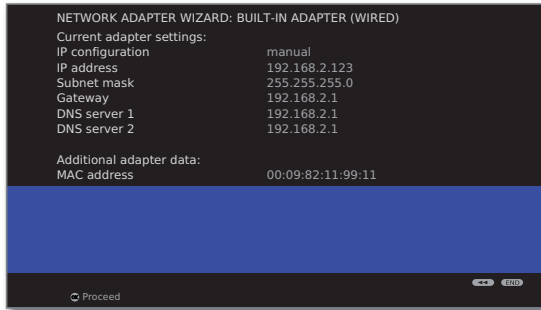


▲ ▼ Select required network adapter,  
**OK Change adapter settings**.

<sup>1</sup> Only for TV sets with WLAN functionality, see table on page 97.

## Configuration of a wired adapter (e.g. LAN adapter)

You will see an overview of the current settings for the selected network adapter (for an explanation of the points, see right column).



**OK Proceed.**



◀ ▶ Select type of **IP configuration**.

**manual:** Enter your fixed static IP address manually (see below).

**DHCP:** Automatic configuration of the IP address via DHCP server.

**UPnP:** Automatic configuration of the IP address via several protocols according to UPnP specification (including DHCP).



**OK Proceed.**

If **manual** has been selected under **IP configuration**:

▲ ▼ Enter IP, Subnet mask, Gateway and DNS server addresses in succession with the numeric keys on the remote control.



**OK Proceed.**

You will now see an updated overview of the settings for the network adapter.



**OK End of wizard.**

## Explanation of the adapter settings for wired adapter (e.g. LAN adapter):

**IP** The current assignment method for the IP address of configuration your TV set.

**IP address** Your current IP address.

**Subnet mask** Your current subnet-mask IP address.

**Gateway** (only for **IP configuration → manual**)  
Your manually set gateway IP address.

**DNS server 1** (only for **IP configuration → manual**)  
Your manually set first DNS server IP address.

**DNS server 2** (only for **IP configuration → manual**)  
Your manually set second DNS server IP address.

**MAC address** Indicates the MAC address fixed in the hardware of your TV set.

## Explanation of the setting possibilities in Network settings menu (continued)

more ... This menu contains settings which have to be changed less frequently.



◀ ▶ Select **more ...** ,  
**OK** call further networking settings.

▲ ▼ Select desired setting,  
◀ ▶ or **numeric buttons**: Perform changes.



**Numeric buttons**: Enter characters (procedure same as **Rename stations**, see page 42).

**Host name**: Give your TV set a name so that it can be uniquely identified in the network.

**Use proxy server**: Indicate whether your network access is to be direct or via a proxy server.

➡ A proxy server is not necessary for most home networks.

➡ Contact your home network administrator if you are unclear about the proxy server settings.

### **Proxy server name:**

(only available if **Use proxy server** → **yes**)

Indicate the name or IP address of the proxy server used.

### **Proxy port:**

(only available if **Use proxy server** → **yes**)

Indicate the network port number.



**MENU**: Quit **Further networking settings** menu.

## **Explanation of the setting possibilities in the Photo settings menu**

➡ The menu can only be opened when a photo is displayed (see page 70).

Go to ... Skip to a definite picture or to the start/end of the current folder.

Picture settings You can carry out the picture settings for the photo display here. The settings correspond to the picture settings in TV mode (see page 34).

## **Explanation of the setting possibilities in the Music settings menu**

➡ The menu can only be opened when the Music Player is displayed (see page 68).

Sound settings You can carry out the audio settings for playing music here. The settings correspond to the audio settings in TV mode (see page 32).

## **Explanation of the setting possibilities in the Video settings menu**

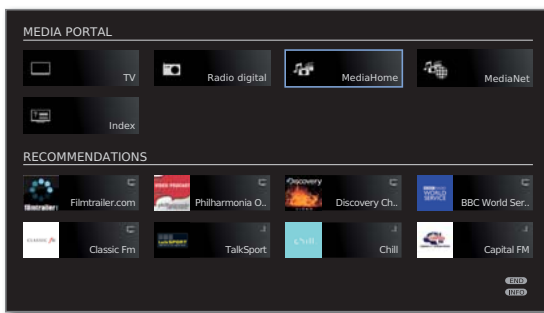
➡ The menu can only be opened when the Video Player is displayed (see page 71).

Picture settings You can make the picture settings for playing videos here. The settings correspond to the picture settings in TV mode (see page 34).

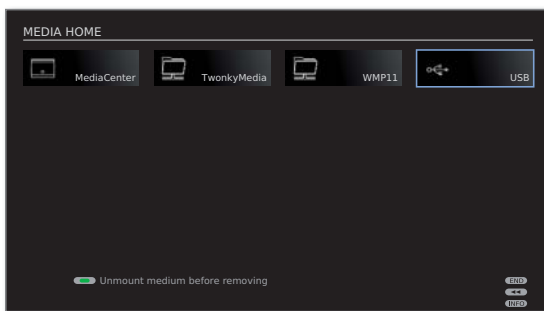
## MediaHome

All data in the immediate environment of the TV set is displayed in **MediaHome**. This includes both storage media directly connected to the TV set (e.g. USB sticks) as well as data provided in your home network (e.g. from a media server on a PC or a network hard drive).

➡ **MediaPortal** is open.



◀ ▶ ▲ ▼ Mark **MediaHome**,  
**OK** activate.



◀ ▶ ▲ ▼ Mark desired media source.

➡ The points shown here depend on the devices available/used.

**MediaCenter** A Loewe MediaCenter connected to your home network.

**TwonkyMedia** Examples with media servers in your home network. The exact designation depends on the media server used.

**USB** Example for a USB memory medium at the USB port of your TV set. The exact designation depends on the relevant storage medium.

➡ Please also observe the notes on page 86 regarding USB sticks!



**OK** Open marked media source. The available content is displayed.

### Unmounting USB storage media

You should unmount USB storage media properly after use before removing them from the TV set. This avoids a loss of data.

➡ A USB storage medium is marked in **MediaHome**.



**Green button:** Unmount USB storage medium before removing it.

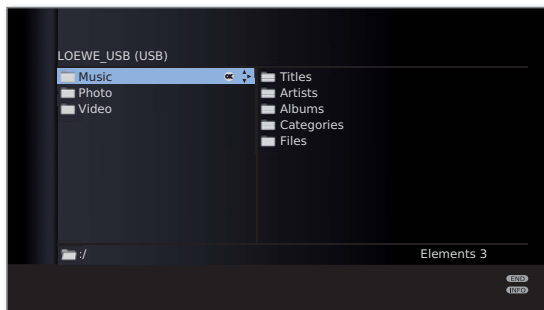
➡ Once unmounted, the USB storage medium cannot be used again until it is reinserted!

# Media+

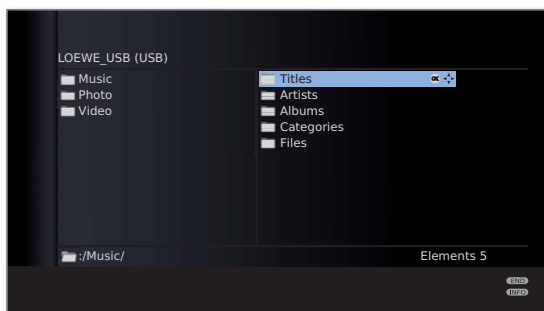
## General navigation in the media overview



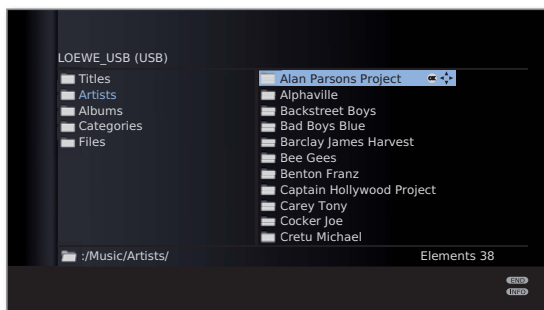
- ▲ ▼ Select desired folder.



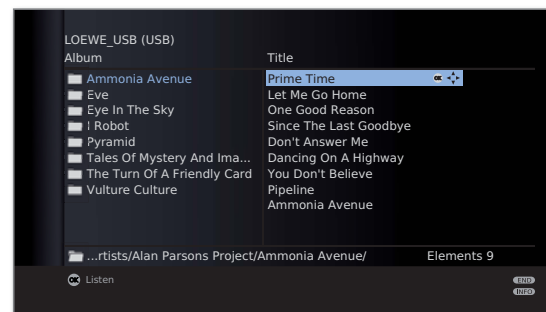
- ▶ Open marked folder. The content of the folder is displayed in the right window.
- ◀ Go back a folder level if necessary.



- ◀ ▶ ▲ ▼ Repeat procedure if necessary. The content of the selected folder is still displayed in the right window, the previous folder structure in the left window.



- ▲ ▼ Select media file (example below: music title).
- OK Play/display selected media file.



- Playing music: see **MediaMusic**, page 68.
- Displaying photos: see **MediaPhoto**, page 70.
- Playing videos: see **MediaVideo**, page 71.

## Playing/displaying data from USB storage media

If a USB storage medium is selected as a source (see page 62), the following special features apply for actions and the media overview:

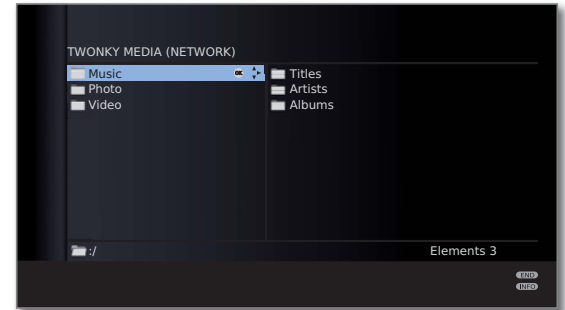
- The uppermost folder level is divided into three fixed categories:
  - Music**  
with the subfolders **Titles**, **Artists**, **Albums**, **Categories**, **Files** (see below).
  - Photo**
  - Video**
- The original folder structure of the USB storage medium is retained in the media overview for **Photo** and **Video**. For playing **Music**, the available titles are prepared and offered in the above subfolders.

### Subfolders in Music mode

- Titles:** The music titles found on the USB storage medium are sorted by title name.
- Artists:** The music titles found on the USB storage medium are sorted by the respective artist.
- Albums:** The music titles found on the USB storage medium are sorted by album name.
- Categories:** The music titles found on the USB storage medium are sorted by their respective musical categories (e.g. Jazz, Classical, Pop, Rock) and displayed correspondingly.
- Files:** The music titles found on the USB storage medium will be shown without being especially sorted (in order of file name).

## Playing files from the home network

When using a media server in your home network as a source (see page 62), the names of the folders displayed are specified by the media server. For further operation, see **General navigation in the media overview** on page 63.



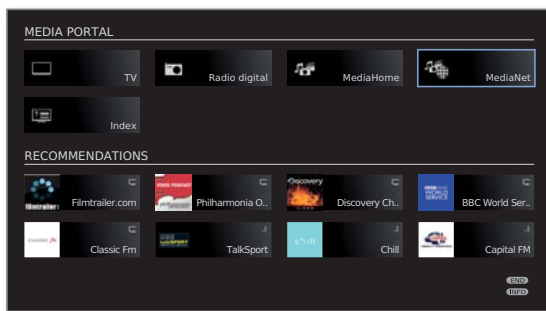
Example: Overview of a media server with the name **Twonky Media**

## MediaNet

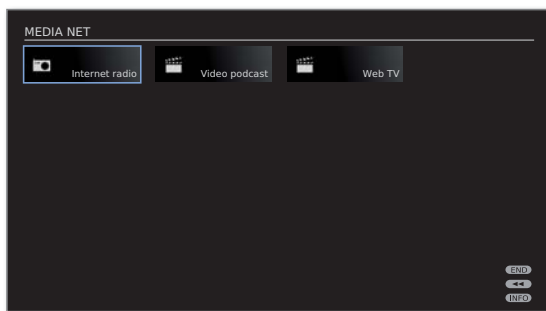
Under the menu item **MediaNet** you can find vTuner Internet radio and videos (video podcasts and Web TV) from the Internet.

### Internet radio

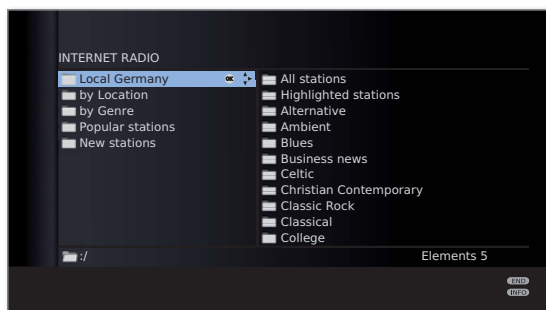
⇒ **MediaPortal** is open.



◀ ▶ ▲ ▼ Mark **MediaNet**,  
OK activate.



◀ ▶ Mark **Internet radio**,  
OK activate.

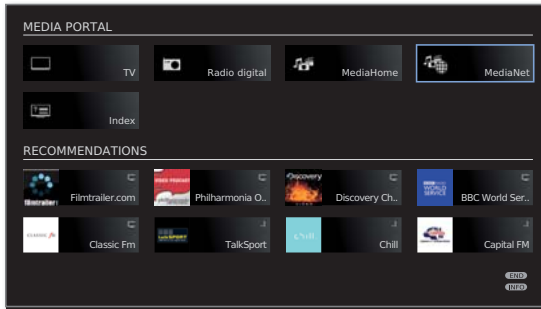


⇒ When playing Internet radio stations, the folder names specified by the provider vTuner are adopted for display on the TV.

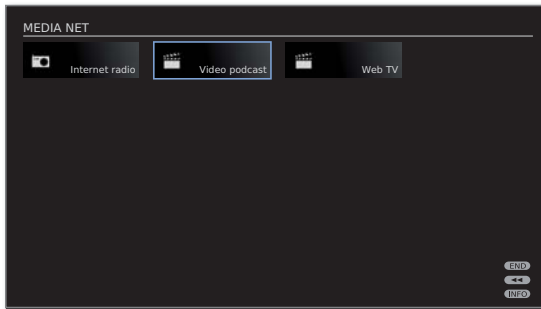
For further operation, see **General navigation in the media overview** on page 63.

## Video podcast

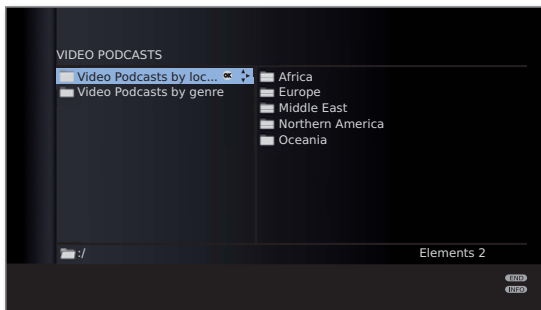
➔ **MediaPortal** is open.



◀ ▶ ▲ ▼ Mark **MediaNet**,  
OK activate.



◀ ▶ Mark **Video podcast**,  
OK activate.



➔ The names of the folders in the **Video podcast** area are fixed by the provider vTuner and are adopted for display on the TV.

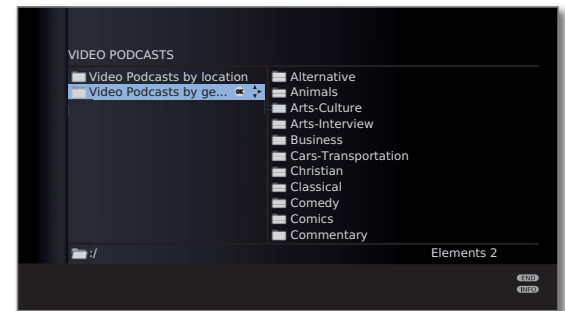
For further operation, see **General navigation in the media overview** on page 63.

### Video podcast by location

The available video podcasts are sorted by country and offered correspondingly (see left column).

### Video podcast by genre

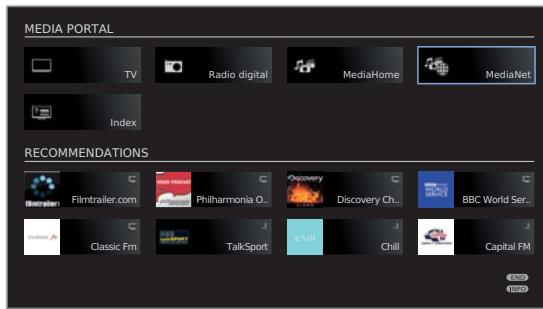
The available video podcasts are sorted by genre and offered correspondingly.



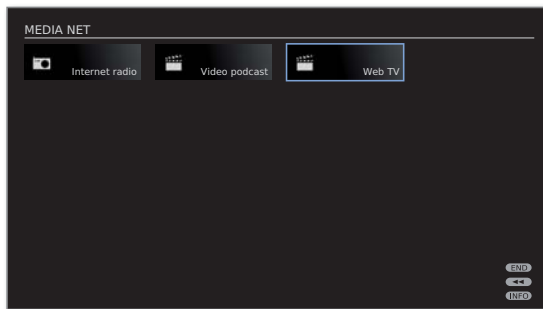
# Media+

## Web TV

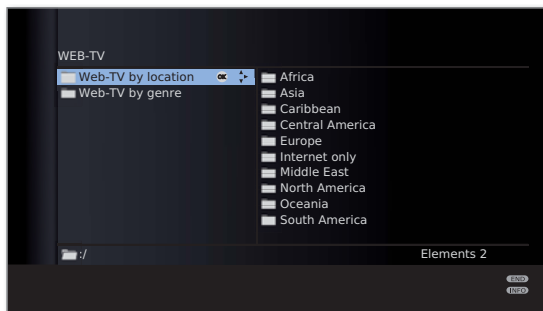
➡ **MediaPortal** is open.



◀ ▶ ▲ ▼ Mark **MediaNet**,  
OK activate.



◀ ▶ Mark **Web TV**,  
OK activate.



➡ The names of the folders in the **Web TV** area are fixed by the provider vTuner and are adopted for display on the TV.

For further operation, see **General navigation in the media overview** on page 63.

### Web TV by location

The available Web TV videos are sorted by country and offered correspondingly (see figure in left column below).

### Web TV by genre

The available Web TV videos are sorted by genre and offered correspondingly.



## MediaMusic

➡ A music title is highlighted in the media overview.



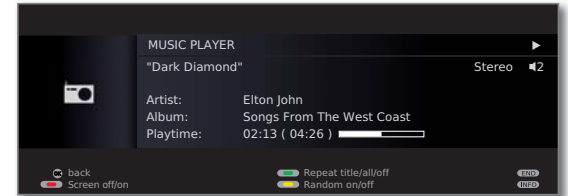
**OK** Play highlighted music title (see right column).

## Play music files

➡ A music title is highlighted.



**OK** Play music title.



**PAUSE button:** Pause current playback.



**PLAY button:** If playback is paused:  
Continue paused playback.  
For playback in progress:  
Play title from the beginning.



short: Playback previous/next title.  
long: Rewind/fast forward.



**OK** Return to the overview without ending the current playback.



**STOP button:** End playback and return to overview.




## Explanation of the symbols in the playback window

The symbols at the top right show you information about the current playback.

- ▶ Playback
- ⏸ Pause
- ⏮ Rewind
- ⏭ Fast-forward
- 🔄 Replay current title
- 🔄📁 Replay all titles in the current folder
- 🎲 Random play activated

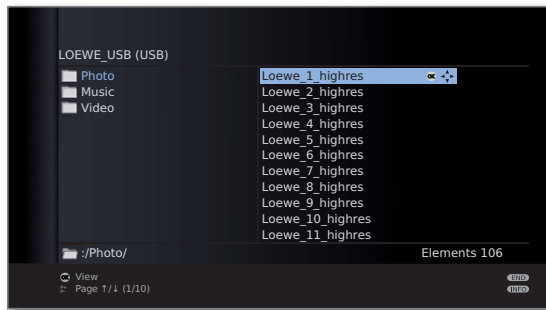
The bar behind the **playtime** shows you how far the music file has been played.

## Function of coloured buttons during music playback

-  **Red button:** Switch **screen off/on**.
-  **Green button:** **Repeat** individual **title/all** titles / Repeat **off**.
-  **Yellow button:** For music files from local media  
Random play of files in currently selected folder on / off.  
for Internet radio:  
Change to the last radio station listened to.

## MediaPhoto

➡ A picture is selected in the media overview.



**OK** View marked picture in full screen mode (see below).



**PLAY button:** Start slideshow (see right column).

### Full-screen mode

➡ A picture has been selected.



**OK** Go to/close full screen mode.



Show previous/next picture.



▲ ▼ Rotate picture by 90 degrees to the left/right.



**END:** Quit full-screen mode and return to overview.

### 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.



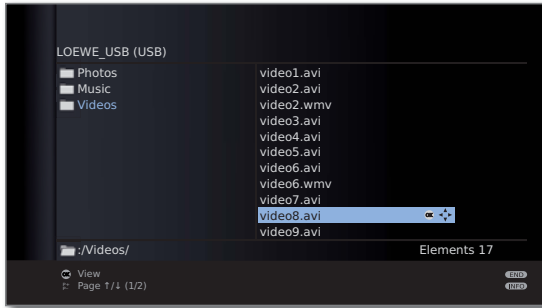
**PLAY button:** Continue slide show.



**STOP button:** End slide show and return to overview.

## MediaVideo

➡ A video is selected in the media overview.



**OK** Play highlighted video (see right column).

### Information on high-resolution films in general

Due to technical limitations (e.g. interference, limited bandwidth), interruptions to playback up to and including complete termination of the playback may occur when playing high definition film material (HD films) on 720p format or above (1280 x 720 resolution or above).

### Playback

➡ A video is selected.



**OK** Play highlighted video.



**PAUSE button:** Pause current playback.



**PLAY button:** Continue paused playback.



**STOP button:** Stop current playback and return to over-view.

### 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.



**PLAY button:** Continue playback.

➡ In the case of Internet videos, please wait until these are buffered in the memory. This can take a few seconds, depending on the bit rate of the film and internet speed.

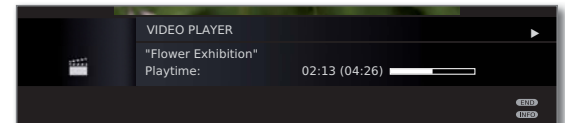
### Video status bar

The video status bar provides you with further information about the current playback.



**INFO:** Display/hide status bar/file information/context information.

Pressing the **INFO button** the first time will show the video status bar. Pressing a second time shows the file information for the video. Pressing the **INFO button** again shows the context information with operating instructions. The displayed information is hidden again by pressing again.



**END:** Close displayed content.

### Explanation of status bar symbols

The symbols (in the status bar top right) show you information about the current playback.

- ▶ Playback
- || Pause
- ◀◀ Rewind (double or four times speed)
- ▶▶ Fast-forward (double or four times speed)

The bar behind the **playtime** shows you how far the video has been played.

<sup>1)</sup> Only for devices with WLAN functionality, see page 97.

# External devices

## Connections menu

Settings for the connection of external appliances are made in this menu.

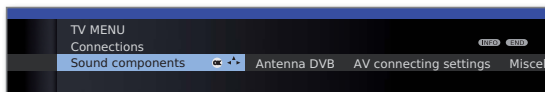
### Calling the connections menu



**MENU:** Call TV menu.



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



- ◀ ▶ Select the desired setting.

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

Sound components	The sound components wizard helps you to configure the components which are used to reproduce the TV sound. You will find a description of the sound components wizard on page 79.
Antenna DVB	Here you can set the parameters of the DVB-T and the DVB-S <sup>(1)</sup> antenna with the antenna wizard. The setting options of the DVB antennas are described in the first time operation routine (from page 22).
AV connecting settings	See right column for explanations.
Miscellaneous	See page 73 for explanations.

## AV connection settings

In the AV connection settings menu the parameters for the AV and AVS connection sockets can be adapted.

### Calling AV connection settings

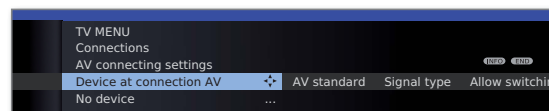


**MENU:** Call TV menu.



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

- ◀ ▶ Select **AV connecting settings**,
- ▼ go to the menu line below.



- ◀ ▶ Select the desired setting.

### Explanations of setting possibilities in the AV connecting settings menu:

Device at connection AV	Indicate here whether a set and, if yes, which one is connected to the AV socket.
AV standard	You set the AV standard of the connected appliance to AV or AVS here. Normally you leave the setting on <b>Automatic</b> . If the standard of the connected appliance is not detected automatically, select the right standard. Ask your dealer or consult the operating manual of the connected appliance if necessary.
Signal type	You set the signal type of the device connected to AV or AVS here. Normally, you should leave the setting at <b>Automatic</b> ; otherwise select a suitable signal type. You can find out more from your dealer.
Allow switching voltage	If this function is activated and you switch an AV device (not at AVS) that outputs a switching voltage to playback, its picture and sound will be played immediately on all TV station slots.
RGB fade-in at AV	If this function is activated, pictures from RGB-capable AV equipment connected to AV are shown immediately on all station places. In some appliances it may be additionally necessary to set the <b>allow switching voltage</b> menu item to yes to get the external picture.

<sup>(1)</sup> Equipment and upgrade options, see page 97.

# External devices

## Connections – Miscellaneous

Various settings (e.g. Digital Link, Decoder etc.) in connection with external appliances are made in this menu.

### Calling up other settings for connections

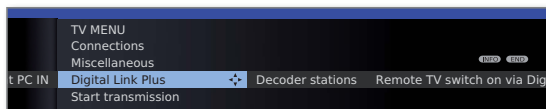


**MENU:** Call **TV menu**.



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

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



◀ ▶ Select the desired setting.

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

Signal type at PC IN	Here you set the signal type of the appliance connected to PC IN. Menu item can only be selected if a valid signal is present at the <b>PC IN</b> input.
Digital Link Plus	With this function the station data of the TV set can be transmitted to a connected Digital Link Plus capable recorder. Only the station data of analogue TV stations can be transmitted.
Decoder stations	Here you can identify analogue stations with encoded content as decoder stations and set the mode of the sound encoding of encoded audio signals, so that these are automatically decoded by a decoder connected to AV. Menu item only available if a <b>Decoder</b> has been selected as <b>Device at connection AV</b> (see page 72).
Remote TV switch on via Digital Link	Here you can select whether the TV set is to switch on automatically from Standby mode, if a tape / disc is to be played or a screen menu displayed from <b>Digital Link HD</b> or <b>Digital Link Plus</b> -enabled devices which are connected to HDMI or AV inputs (see also page 74 and 76).
Assign digital audio input	You can assign the digital audio input socket ( <b>AUDIO DIGITAL IN</b> ) to an AV input (AV, HDMI, PC IN etc.) here (see page 81).

# External devices

## Devices to the connections AV/AVS

An additional appliance such as a DVD player, VCR/DVD recorder etc. can be connected to the TV set at the Euro-AV socket **AV** (see page 11).

The AV input **AVS** (see page 11) offers the possibility of connecting a digital camera or a Camcorder for example.

The 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.

If the sound of the 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 appropriate AV socket.

The digital audio input can be assigned to the appropriate AV socket by the **TV menu** → **Connections** → **Miscellaneous** → **Assign digital audio input** (see page 81).

### Remote TV switch on via Digital Link

You can select whether the TV set is to switch on automatically from Standby mode if a disc is played or a screen menu displayed on a **Digital Link Plus**-enabled device connected to **AV**.

You can find the settings in the **TV Menu** under **Connections** → **Other** → **Remote TV switch on via Digital Link** (see also page 73).

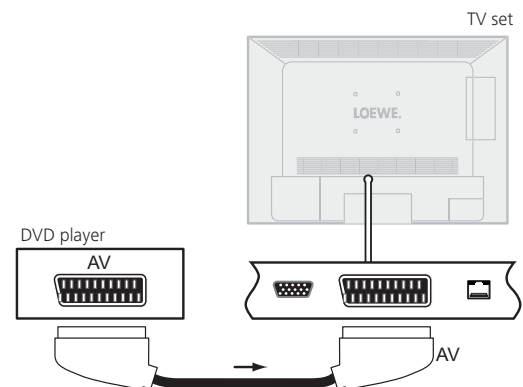
### Connecting a DVD player to the TV set

➡ A **DVD player** has been selected in the **TV Menu** under **Connections** → **AV connecting settings** → **Device at connection AV** (see also page 72).

Switch off all equipment before connecting.

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

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



Connection example of a DVD player

### Playback from AV device

If the device at AV supports the **Digital Link Plus** functionality or if in the **TV menu** → **Connections** → **AV connecting settings** → **Allow switching voltage** → **yes**, the TV set will automatically switch to the corresponding AV input after starting the replay at the AV device.

The AV input can also be called manually, however.



Call **AV selection**.



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

Start playback on the connected device.

# External devices

## Connecting a DVD recorder to the TV set

- A **DVD recorder** has been selected in the **TV Menu** under **Connections** → **AV connecting settings** → **Device at connection AV** (see also page 72).

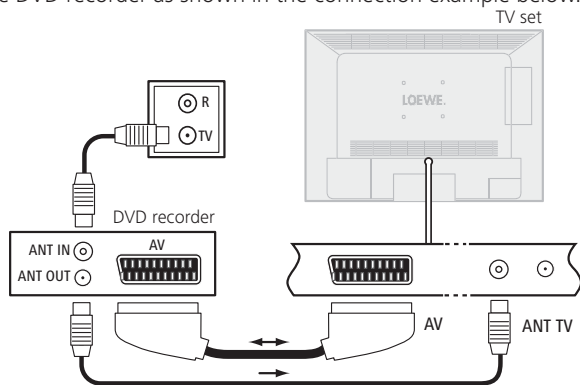
Switch off all equipment before connecting.

Connect the Euro-AV output of the DVD recorder to the **AV** 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.



Connection example of a DVD recorder

- 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 84).

## Playback from AV device



Call **AV selection**.



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

Start playback on the connected device.

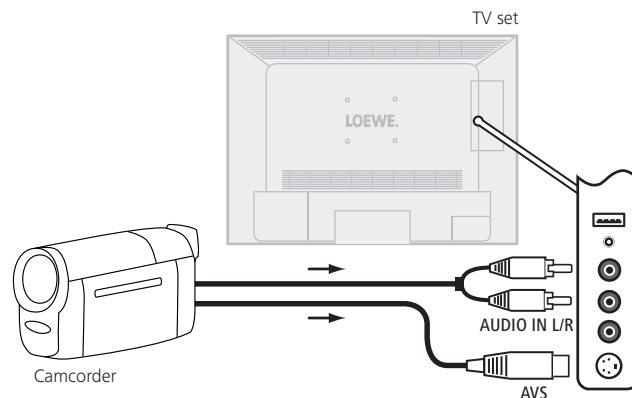
## Connecting Camcorder/camera

Switch off all equipment before connecting.

Connect the AV output of the camcorder to the sound input sockets **AUDIO IN L** (white) and **AUDIO IN R** (red) and the **AVS** connection of the side AV 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-Video signal at the AV output. In this case use the **VIDEO IN** input (yellow).



Connection example of a camcorder

## Playback from AV device



Call **AV selection**.



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

Start playback on the connected device.

# External devices

## Devices to the HDMI 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 Interactive) optimally (see glossary, page 101).

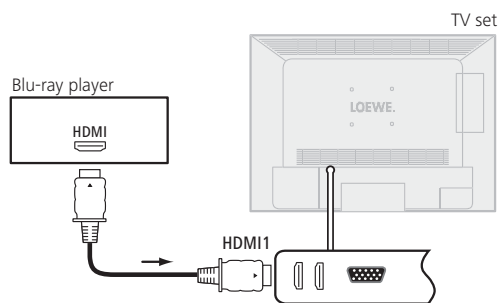
Digital video signals from a DVI player can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. The sound must be piped in additionally. However, the sound must then be supplied additionally. HDMI and DVI both use the same copy protection method HDCP.

### Connecting the device

Switch off all equipment before connecting.

Connect the device by an HDMI cable (Type A, 19-pole) to one of the **HDMI** sockets of the TV set.

An HDMI device is connected to the side HDMI socket (e.g. camcorder) in the same way as shown in the figure.



Connection example of an HDMI device (e.g. Blu-ray Player)

If a DVI/HDMI adapter cable is used, the corresponding sound can be piped through the **AUDIO IN** (analogue) or **AUDIO DIGITAL IN** (digital) socket on the TV set (see also page 81).

### Playback from the device

If the device at **HDMI** supports the **Digital Link HD** functionality, the TV set will automatically switch to the corresponding HDMI input after starting the replay at the HDMI device.

The HDMI input can also be called up manually:



Call **AV selection**.



▲ ▼ Select **HDMI** 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.

### Remote TV switch on via Digital Link

You can select whether the TV set is to switch on automatically from Standby mode if a disc is played or a screen menu displayed on a **Digital Link HD**-enabled device connected to **HDMI**.

You can find the settings in the **TV Menu** under **Connections** → **Other** → **Remote TV switch on via Digital Link** (see also page 73).

# External devices

## Adjust Geometry (only possible with certain signals)

This allows you to shift the picture (horizontally and vertically) so that it fills the entire screen.

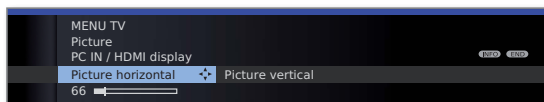
- ➔ When connecting a PC to an **HDMI** socket of the TV set, set the output signal at your PC beforehand so that it corresponds to one of the signals in the table on page 92.

MENU

**MENU:** Call TV menu.



- ◀ ▶ Select **Picture**,  
▼ go to the menu line below.
- ◀ ▶ Select **more ...**,  
**OK** call.
- ◀ ▶ Select **PC IN / HDMI display**,  
▼ go to the menu line below.



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

## Digital Link HD

### 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.

### Concealed installation of HDMI devices

For this, first assign the HDMI CEC function with Code **22** to the required device button (**REC**, **DVD** or **AUDIO**) as described on page 85.

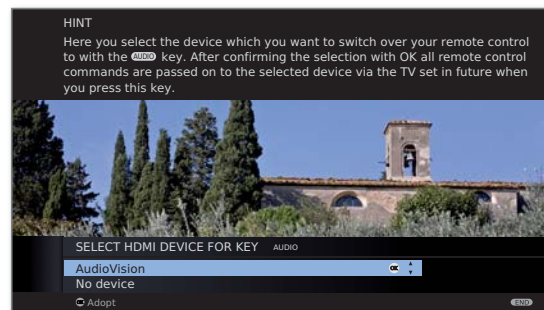
Now assign the **Digital Link HD** function to the used HDMI device.

### Assign HDMI device

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

**REC** **DVD** **AUDIO** Press required button for 5 seconds.

A selection menu appears on the TV set.



- ▲ ▼ Select required device from the list.  
**OK** Adopt.

From now on, the commands of the remote control are communicated from the TV set to the HDMI device, if the corresponding device button (**REC**, **DVD** or **AUDIO**) has been pressed previously.

# External devices

## 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.

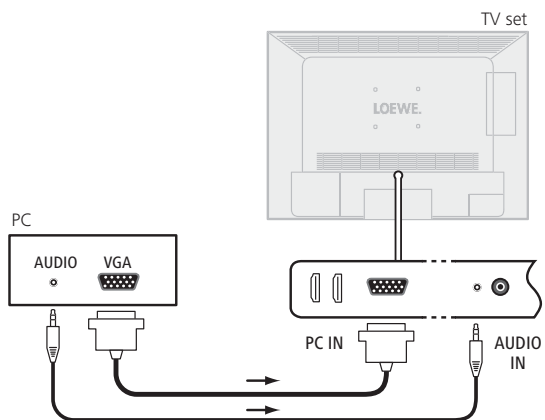
➔ When connecting a PCs or accessory device to the **PC IN** socket of the TV set, set the output signal on your PC first so that it matches one of the signals in the table on page 92.

### Connecting the device

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 IN** jack on the TV set with a stereo cable.



Connection example of a PC

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 81).

If your PC has an HDMI interface, you can also connect the PC via the HDMI socket to your TV set (see page 76).

Depending on the version of the HDMI connection on the PC, the audio signal is also transmitted via the HDMI connection.

If this is not the case, connect the analogue or digital sound as described above. See the appropriate operating manual for further information about the version of the HDMI interface on your PC.

## Playback from the device



Call **AV selection**.



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

## PC picture adjustment (only possible with certain signals)

In this menu you can set the position (vertical, horizontal) and the phase length of your PC.



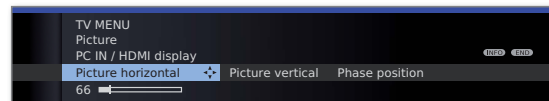
**MENU:** Call **TV menu**.



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

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

◀ ▶ Select **PC IN / HDMI display**,  
▼ go to the menu line below.



◀ ▶ Select the desired setting,  
▼ go to the menu line below.

◀ ▶ Make settings.

## Set Signal type at PC IN (only possible with certain signals)



**MENU:** Call **TV menu**.



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

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

◀ ▶ Select and set **Signal type at PC IN:**  
**RGB or Ycc / Ypp**

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

# External devices

## Sound components wizard

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

You can also connect a digital HiFi/AV amplifier in addition to the TV speakers.

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

### Calling up Sound components wizard

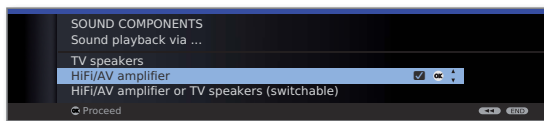


**MENU:** Call TV menu.



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

◀ ▶ Select **Sound components**.  
**OK** calls the sound components wizard



▼ ▲ Select the desired playback device.

### Explanations of the setting possibilities:

**TV speakers** The sound is played over the built-in TV speakers.

**HiFi/AV amplifier** The sound is played by a connected digital audio amplifier. The TV speakers can be used as centre speakers.

**HiFi/AV amplifier or TV speakers (switchable)** The sound is played by a connected digital audio amplifier. The TV speakers can be used as centre speakers. In the sound menu playback can be switched between the TV speakers and the external audio amplifier with **Sound via...**

# External devices

## Connecting audio amplifiers

The Sound Component Wizard allows the configuration of different audio amplifiers (digital stereo and surround amplifiers) with different digital sound formats (Dolby Digital, dts, MPEG and Stereo/PCM). See the operating manual of the audio amplifier for more information.

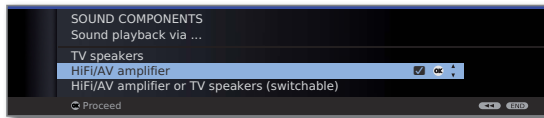
MENU

**MENU:** 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.**

Continue: right column.

### Explanations of the setting possibilities:

**HiFi/AV amplifier or TV speakers (switchable)** Select setting when an amplifier is connected and the TV speakers are not used. After a HiFi/AV amplifier is registered in the sound menu, the sound can be switched between the TV speakers and the amplifier with **Sound via...**

**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.

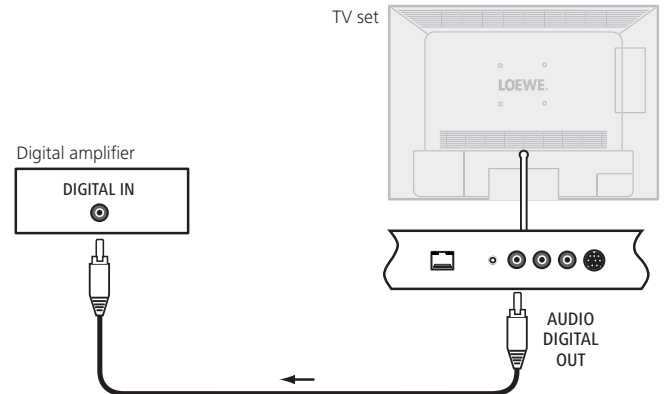
**TV loudsp. as centre speaker** For every connected surround amplifier, select whether the TV loudspeakers are to be used as centre speaker. If so, establish a connection between the centre output of the amplifier and the centre input of the TV set **CENTER IN** with a cinch cable.

**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 ...

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).

# External devices

## 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 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.

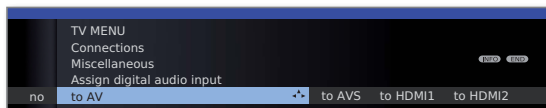
The external, digital audio signal can be played through an externally connected, digital audio amplifier. This must be logged into the Sound component wizard (see page 80).

- ➔ If an external audio amplifier or Loewe Individual Sound Projector is used, this must be registered in the sound components wizard (see page 80).



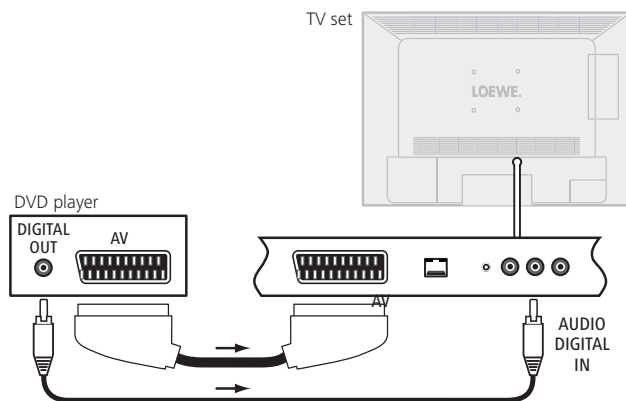
**MENU:** Call TV menu.

- ◀ ▶ 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.

Connection example for a DVD player, see right hand column.



## 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 one of the **HDMI** sockets 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 IN** socket.

### External devices with HDMI connection

If external devices with an HDMI interface are connected to one of the **HDMI** sockets of the TV set, no assignment of the audio input is necessary because the digital transmission of picture and sound takes place via a single connection in HDMI.

## Serial interface (RS-232C) (retrofittable)

You can connect 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.

# External devices

## The direct way to record

You can programme timer recordings for connected recorders. The recording wizard is integrated at several places for programming a recording.

### 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** (see right hand column).

### 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.



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

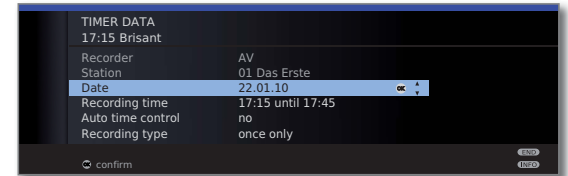


▼ ▲ Select desired broadcast,  
**OK** calls **Timer data** (see right hand column).

## Entering the Timer data

After selecting the station you wish to record, timer data will be displayed.

The setting options for the timer data differ depending on the recorder selection, whether an analogue or DVB station is to be recorded or via which route (EPG, Teletext) the recording has been programmed.



▲ ▼ ◀ ▶ Change **Timer data** if required or, **OK** confirm.

### Setting possibilities in the Timer data menu:

Date Day of recording.

Recording time Time of recording.

VPS Use VPS data for analogue stations, **yes/no**<sup>(1)</sup>.

Auto time control Use automatic time control, **yes/no**<sup>(2)</sup>.  
The recording is performed precisely at the time, even if the beginning/end time of the programme provider has changed.

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

<sup>(1)</sup> only available with some analogue stations.

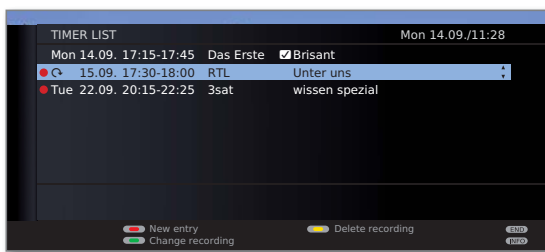
<sup>(2)</sup> only available when recording via EPG.





# External devices

## Programming the timer with the timer overview




All programmed recordings, marked programmes and copy orders <sup>(1)</sup> are listed in the timer overview. You can also programme new recordings and mark other programmes 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.

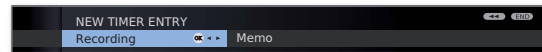
## Explanation of the symbols in the timer list:

-  Record
-  Repeated recording (daily, weekly or Mon-Fri)
-  Marked programme (see page 46)

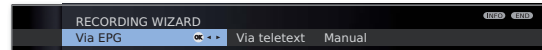
## New entry: Programme timer recording manually

➡ 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 82.

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

◀ ▶ ▲ ▼ Select station.

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

Entry of the timer data see page 82.

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 46).

# External devices

## Timer recording with external devices

- ➔ The recording of HDTV stations with external devices is only possible to a limited degree. The HD transmission is scaled down to SD quality and output at the AV output for the recording.

### 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 is then 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.

If using devices with DVB-T/C Twin-Tuner (Equipment variants see page 97), analogue stations can be viewed on the TV set parallel to the recording with the external device.


### Copy protection

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


# External devices

## Operating Loewe equipment


### Using the remote control for the TV mode of the TV set

 Press the **TV button**, the display above it will light for approx. 5 seconds.


### Using the remote control for a Loewe recorder

 Press the **REC button**, the display above it will light for approx. 5 seconds.

### Using the remote control for a Loewe player

 Press the **DVD button**, the display above it will light for approx. 5 seconds.

### Using the remote control for the radio mode of the TV set



 Press the **AUDIO button**, the display above it will light for approx. 5 seconds.

As long as a button is pressed, the display of the selected operating mode lights up (**TV – REC – DVD – AUDIO**). This allows you to check which operating mode the remote control is set to every time you press a button.

The **factory setting** of the buttons is described above (see also table in right hand column). The assignment of the buttons can be changed to suit the existing accessory devices (see right hand column).

### Setting the remote control for other Loewe devices

You can operate various Loewe devices with the remote control. The device keys **REC – DVD – AUDIO** can be reassigned to operate various Loewe devices.

  Press the required device buttons and the **Stop button** simultaneously for 5 sec. until the corresponding LED display flashes twice.

Then enter the two-digit device code from the list below.

Device	Code	Factory setting
Loewe ViewVision 8106 H	10	
Loewe Viewvision, Centros 21x2	12	
<b>Loewe ViewVision DR+ DVB-T</b>	<b>13</b>	<b>REC</b>
Loewe Auro 2216 PS/8116 DT	14	
Loewe BluTech Vision	15	
Loewe Soundprojector	17	
<b>Loewe TV - Digital radio</b>	<b>19</b>	<b>AUDIO</b>
Loewe Mediacenter	20	
<b>Loewe BluTech Vision Interactive</b>	<b>21</b>	<b>DVD</b>
<b>HDMI CEC mode</b>	<b>22</b>	
Loewe AudioVision	24	
Loewe Individual Sound Projector SL	25	
Apple IR codes	26	
Resetting to factory setting	99	

The associated LED display flashes twice.

► The codes shown here only apply for direct operation of the accessory device.

For operation of the connected accessory device via the TV set, e.g. with concealed installation (**Code 22**), see page 77. The remote control's signal is transmitted from the TV set to the accessory device with concealed installation.

# Software update

## Basic information

It is possible to update the software on your TV set. Current software versions can be downloaded from the Loewe Internet site and installed on your set using a USB stick.

## USB stick

### Requirements of USB stick

USB sticks tested by Loewe and compatible in type and format can be ordered from the Loewe dealer using the article no. 90437.950.

If you would like to use your own USB stick, please follow these tips/conditions:

- Formatting in FAT32.
- Only 1 partition.
- Do not use encrypted USB sticks.
- Do not use USB sticks which simulate a CD ROM drive.
- There may be no hidden files on the device.
- For some types of device, the construction of the USB stick is significant. Maximum dimensions in mm: 70x20x9
- If in doubt, the USB stick should be formatted as "FAT32" without "extended attributes".

## Download

### Software download from the Loewe Internet site

You can download new software for your TV set from our homepage. To do this register on our homepage

<http://www.loewe-uk.com> (under **Support** → **Registration**).

Simply follow the steps in the registration process.

After the successful registration process and subsequent login to the homepage you have to register your set (have the article number and serial number ready – both of these are on a label stuck to the back of the set).

Then you will get a list of downloadable contents for your TV set including the software for your TV set. Download the data and unpack all the files in this ZIP archive into the main directory of your USB stick.

Then carry out the software update as described below.

## Software update

In the software update (package update) all the software releases in the TV are scanned and updated as required.

To do this, insert the USB stick with the downloaded software into the USB port on the TV set (see connections page 11).

### Calling Software update



**MENU:** Call TV menu.

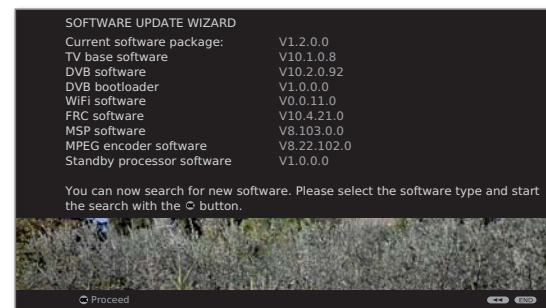


◀ ▶ Select **Settings**,  
▼ go to the menu line below.

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

◀ ▶ Select **Software update**,  
**OK** Call Software update Wizard.

The versions of the current software package are displayed.



**OK Proceed.**

The TV set searches for a new software package on the USB stick.

If a new software version is available after the search, the following on-screen message appears (see page 87).

If several different software packages are found on the USB stick, the latest software package is always used.

If no new software package was found in the search:

**OK Exit wizard.**



continued on the next page →

# Software update

## New software package found



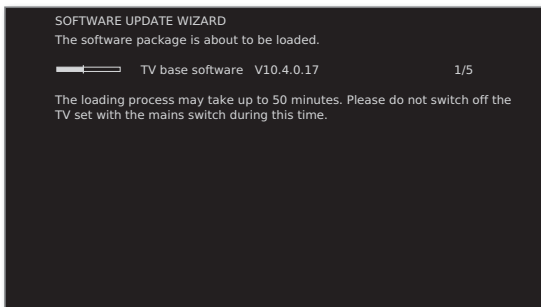
**OK Proceed.**

OK Start loading software.



**END: Exit wizard.**

## Load new software package



A bar shows you the progress of the download. This process can take up to 50 min. Do not turn your set off during this time!

You will be informed at the end of the update.

After finishing loading:  
Switch the TV off and back on at the mains switch.

# 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>MEDIA</b> button in <b>TV mode</b> . In the <b>MediaPortal</b> , highlight the last menu item ( <b>Index</b> ) in the upper half and call up with <b>OK</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 83).
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.	a) Activate Digital Link in the recorder (see operating instructions of the recorder). b) Connect EURO-AV cable (page 75).
General problems when connecting <b>external devices</b> via an <b>AV input</b> .	a) The <b>AV standard</b> is set incorrectly. b) The <b>signal type</b> is set incorrectly.	a) Set the correct standard (page 72). b) Set the correct signal type (page 72). 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 are not selected in the menu. b) The sound is missing in decoder mode because the wrong decoder sound is assigned in the menu.	a) Select the right decoder stations in the menu ( <b>TV menu</b> → <b>Connections</b> → <b>Miscellaneous</b> → <b>Decoder stations</b> → <b>Select decoder station(s)</b> ) (see page 73). b) Select the right sound code (always, never, automatic) in the menu ( <b>TV menu</b> → <b>Connections</b> → <b>Miscellaneous</b> → <b>Decoder stations</b> → <b>Sound encoding</b> ), see also decoder instructions.
<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).
With <b>Teletext</b> various <b>characters</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.
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


Problem	Possible cause	Remedy
<p><b>No sound</b> via the external digital <b>audio amplifier</b>.</p>	<p>a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG).</p> <p>b) TV set and external digital audio amplifier are not connected with each other.</p>	<p>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 (INFO) – Language/sound (green button)</b>.</p> <p>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.</p>
<p>A programmed <b>recording</b> was not made.</p>	<p>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.</p> <p>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.</p>	<p>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.</p>

# Troubleshooting

Problem	Possible cause	Remedy
Your TV set is not assigned an IP address if you require the IP assignment type <b>DHCP</b> .	a) No DHCP server is working on your network.	Set up a DHCP server. Assign the IP addresses for the TV set <b>manually</b> or via <b>UPnP/DLNA</b> .
Despite video or music file being played back, no sound can be heard.	a) The TV set is set to mute or the volume has been turned down too far.  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> ).	a) Increase the volume by pressing the <b>V+ button</b> on the remote control for longer. This will also cancel any mute setting.  b) Connect up the audio device and switch it on. In the <b>Sound components wizard</b> change back to <b>TV speakers</b> .
Although the file is visible on the media server, it is not displayed in the MediaPortal.	The file is not made available by your media server.	Change to your media server. For this, read the section Media server software on page 94.
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 94).	No remedy.

# Technical data

## General data

Type	Connect 26 LED	
Article number	50428xxx	
Dimensions for device without stand (W x H x D) in cm	68.4 x 45.6 x 9.4	
Dimensions for device with stand (W x H x D) in cm	68.4 x 50.5 x 20.3	
Weight for device without stand (approx.) in kg	9.9	
Weight for device with stand (approx.) in kg	11.4	
Display technology	Full-HD LCD with Edge-LED backlight	
Screen diagonal (in cm) / Picture format	66 / 16:9	
Resolution (in pixels) / Motion Response	1920 x 1080 / 50 Hz	
Contrast (static / dynamic)	1,200 : 1 / 8,000 : 1	
Viewing angle (horizontal / vertical)	178° / 178°	
Power consumption (EN 62087:2009) – Power consumption „On“ (W) without / with DR+ Power consumption in standby mode (W) Power consumption when the set is turned off (W)	54 0.5 0	
Ambient temperature (Celsius)	5° – 35°	
Relative humidity (non-condensing)	20 – 80%	
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)	

# Technical data

## Electrical data

Chassis designation:	SL 121
Power supply:	220 V – 240 V/50–60 Hz
Tuner:	VHF/UHF/cable/hyperband/satellite <sup>(1)</sup>
Range:	45 MHz to 860 MHz (Antenna/cable analogue/DVB-C/T/T2 <sup>(1)</sup> ) 950 MHz to 2150 MHz (DVB-S/S2) <sup>(1)</sup>
Station storage locations incl. AV and radio:	5000
TV standards:	(analogue) B/G, I, L, D/K, M, N (digital) DVB-T/T2 <sup>(1)</sup> , DVB-C, DVB-S <sup>(1)</sup> / S2 <sup>(1)</sup>
Colour standards:	SECAM, PAL, NTSC, NTSC-V, PAL-V (60 Hz)
Sound standards:	Mono/Stereo/Dual-channel/Nicam B/G, I, L Dolby Digital, Dolby Virtual Speaker, DTS
Audio output power (music/sine):	2 x 10 W / 2 x 5 W
Teletext:	TOP/FLOF Level 2.5
Page memory:	2000

## Signals via PC IN / HDMI

The following table lists the compatible signals which your TV set can show via the **PC IN** connection and the HDMI connections (**HDMI1**, **HDMI2**).

Set the output signal on your PC, HDMI or DVI device so that it matches one of the signals in the table.

Format	Horizontal	x	Vertical	Image frequency	Connection
480i60	720	x	480i	60Hz	PC IN, HDMI
576i50	720	x	576i	50Hz	PC IN, HDMI
480p60	720	x	480p	60Hz	PC IN, HDMI
576p50	720	x	576p	50Hz	PC IN, HDMI
	1440	x	480p	60Hz	HDMI
	1440	x	576p	50Hz	HDMI
720p50	1280	x	720p	50Hz	PC IN, HDMI
720p60	1280	x	720p	60Hz	PC IN, HDMI
1080i50	1920	x	1080i	50Hz	PC IN, HDMI
1080i60	1920	x	1080i	60Hz	PC IN, HDMI
1080p24	1920	x	1080p	24Hz	PC IN, HDMI
1080p25	1920	x	1080p	25Hz	PC IN, HDMI
1080p30	1920	x	1080p	30Hz	PC IN, HDMI
1080p50	1920	x	1080p	50Hz	HDMI
1080p60	1920	x	1080p	60Hz	HDMI
VGA	640	x	480	60Hz	PC IN, HDMI
SVGA	800	x	600	60Hz	PC IN, HDMI
XGA	1024	x	768	60Hz	PC IN, HDMI
WXGA	1360	x	768	60Hz	PC IN, HDMI
SXGA	1280	x	1024	60Hz	PC IN, HDMI

<sup>(1)</sup> Equipment and upgrade options, see page 97.

# Technical data

## Connections (max. equipment)

Designation	Type	Function / Signal
	HDMI (2x)	Digital Video/Audio IN Type A 19pole Standard 1.3: Digital video and audio
	D-SUB 15-pole	PC/STB video signal
	EURO-AV	Video IN: Y/C (S-VHS/Hi 8) CVBS (VHS/8 mm) RGB Video OUT: CVBS (VHS/8 mm) Y/C (S-VHS/Hi 8) Audio IN: L/R Audio OUT: L/R
	Ethernet (8P8C)	LAN: Network interface
	USB	USB 2.0: Multimedia files/software update
	Jack 3,5 mm	Audio IN: L/R
	Cinch (grey)	Digital Audio OUT (SPDIF): Digital audio
	Cinch (grey)	Digital Audio IN (SPDIF): Digital audio
	Cinch (grey)	Audio IN: max. 2Vrms: Centre
	Mini-DIN	Service/L-Link
/80 mA	IEC socket	75 Ohm/5 V/80 mA: Antenna/cable/DVB-T/C
/350 mA max.	F socket <sup>(1)</sup>	75 Ohm 13/18 V/450 mA: ANT-SAT DVB-S/S2
	RJ12 <sup>(1)</sup>	Data I/O: serial interface
	CI slot	Common Interface: Slot for CA module
	Jack 3,5 mm	Headphones 32–2000 Ohm
	Cinch (white/red)	Audio IN: L (white) / R (red)
/350 mA max.	Cinch (yellow)	Video IN: CVBS (VHS/8 mm)
	Mini-DIN	Video IN: Y/C (S-VHS/Hi 8) CVBS (VHS/8 mm)

<sup>(1)</sup> Equipment and upgrade options, see page 97.

# Technical data

## MediaHome

### File formats supported

#### Pictures: **JPG**

► Picture files may not exceed a size of **10 MB**.

**Music:** **MP3, WAV** (without ADPCM), **WMA 9** (compressed), **flac**

**Video:** **AVI** (DivX, Xvid, MPEG4), **MPEG 1/2/4, WMV 9, Xvid, VOB, H.264** (with AAC-LC sound)

► **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)

### Supported home network standard

Universal Plug and Play Audio / Video (UPnP AV)

### 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 <http://www.loewe-uk.com> you can download a test version of the **TwonkyMedia Media server**. With your TV set you have simultaneously acquired the option of 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.

# Accessories

## Accessories

The following accessories are obtainable from your Loewe dealer.

### **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 Interactive** you are ideally equipped for the successor format to DVD. With the Loewe system integration you control BluTech Vision Interactive and your Loewe TV set simultaneously with the Assist remote control.

## Upgrade Kits / Conversion Kits / Cables

### **Upgrade kit DVB-S2 Single (Art.No. 70622.080):**

You can receive digital satellite and HDTV stations with the upgrade kit. The tuner is integrated in the TV set and is operated with the remote control/menu control.

The retrofit possibilities for your set can be found in the table on page 97.

### **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 108).

### **Upgrade kit RJ12 (Art.No. 71025.080):**

A home networking system can be connected to the TV set via the RJ12 (RS232C) interface.

The retrofit possibilities for your set can be found in the table on page 97).

### **Conversion kit DVB-T2/C Single (Art.No. 70913.080):**

With the DVB-T2/C Single conversion kit you add the Standard DVB-T2 to the reception possibilities of your TV set.

The Standard DVB-T2 is not available in all countries at the moment

The retrofit possibilities for your set can be found in the table on page 97.

# Accessories

## Equipment variants

The equipment of the individual set variants and their upgrade/conversion possibilities is listed in the table below.

Set variants	Connect 26 LED
DVB-T/C Single	●
DVB-T2/C Single (URS) Art.No. 70913.080	○
DVB-S2 Single (ARS) Art.No. 70622.080	○
RJ12 (ARS) Art.No. 71025.080	○

- ex factory
- available / optional as an upgrade kit (ARS) / conversion kit (URS)

## TV set equipment

The precise features are listed in the **Integrated features** item in the index of the TV set (see page 15).

# Accessories

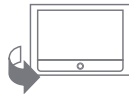
## Setup possibilities



Table Stand



Floor Stand C 22/26



Wall Mount Flex 26 S

### Connect 26

- Table Stand (delivery status)
- Floor Stand C 22/26
- Wall Mount Flex 26 S (see note in right-hand column)

## Instruction for wall installation

**Please not the following points when using a wall holder:**

See the disassembly sketch. Place the TV set on a soft underlay on a table as shown.

Remove the four screws. Remove the Table Stand.

**IMPORTANT:** The bottom two screws must be screwed back in afterwards to stabilise the set:



Now mount the wall holder as described in the installation instructions.

# Environment

## 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 91). If you want to save even more energy then switch the device off with the mains switch. But please note that the EPG (electronic programme guide) data may be lost and any programmed timer recordings are **not** made by the TV set.

The power consumed by the TV set during operation depends on the energy efficiency preset in the initial installation (see page 22) or the setting in the TV menu (see page 34).

If you activate the automatic dimming (see page 34), 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.

### Batteries



The batteries supplied as initial equipment do not contain any pollutants such as cadmium, lead, or mercury. Used batteries should **no longer** be disposed of in the **domestic waste** according to the Battery Ordinance. Dispose of your batteries at no charge in the **collection containers** which are set up for this purpose in retail stores.

 The code number  cancels an access code and thus the parental lock. Please keep in a safe place.

## Trademarks

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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/>).

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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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 which can improve the reception in areas with a poor coverage.

**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.

**AVS:** Audio/video sockets on the side of the TV set (cinch and mini-DIN).

## B

**Band:** Name for a transmission 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.

**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 in 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** in which video data saved on the DVD as well as transmitted via 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.

**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.

# Glossary

## D (continue)

**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.

**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:** Analogue 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 TV guide. Using the EPG you can watch the TV programme of the TV station, transfer the appropriate data. The list of programmes contains the title, beginning and end and duration of the programme. In addition brief descriptions of the content of the programmes is also 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 names and numbers of the jump destinations are transmitted in the bottom line on every page. 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 **DVI** and **HDMI** interfaces for secure 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 that 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.

**IR-Link:** The IR-Link function allows the operation of accessory devices with concealed installation made by other manufacturers via the Loewe TV set. The infrared sensor required for this is available as an accessory and can be connected to the IR-Link connection of the TV set.

# Glossary

## J

**JPEG/JPG:** Joint Photographic Experts Group is a committee which has developed a standard method for the compression of digital photos. This method JPEG (**JPG** for short), named after the committee, is a commonly 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. The transmission speed in wired networks is 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.

**NICAM:** Audio standard. Is used in Denmark, England, France, Sweden, and Spain.

**NTSC:** American colour standard.

## P

**Page Catching:** For teletext, refers to going to and calling a page number.

**PAL:** European standard.

**PCM:** Pulse Code Modulation for digital sound.

**Picture in Picture:** See **PIP**.

**PIP:** Picture in Picture; a function which displays two pictures on the screen.

**Pixel:** Denotes both the smallest unit of a digital graphic grid and its display 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 errors. 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.

**Powerline:** Powerline refers to a type of wired network connection in which data can be transmitted via the domestic power supply using the optionally available adapters.

**Progressive JPEG:** Progressive **JPEGs** are built up gradually. The quality of the picture increases progressively during the loading process.

**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.

# 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, AV, AVS

### TV digital:

Signal type: DVB-SD, HDMI-SD (480i/576i)  
Input: Tuner digital, HDMI1, HDMI2

### HD analogue:

Signal type: RGB-HD (video mode: e.g. 1920x1080, 1280x720),  
Component-HD (video modes: e.g. 1920x1080, 1280x720)  
Input: PC IN

### HD digital:

Signal type: DVB-HD, HDMI-HD  
Input: Tuner digital, HDMI1, HDMI2

### 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.

**Switch 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 about which pages exist and which of them 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.

**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 programme time.

## W

**Wired network:** see LAN.

**WMA:** Abbreviation for Windows Media Audio, Microsoft's own audio data format. The contents are compressed as in MP3 files.

**WMV:** Abbreviation for Windows Media Video, Microsoft own video data format.

# Glossary

## Y

**Ycc/Ypp:** Colour standards for **Set-Top-Boxes**.

**YCbCr:** Digital colour model, see **COMPONENT IN**.

**YPbPr:** Analogue colour model, see **COMPONENT IN**.

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