Operating instructions

TV

- Individual 40 Selection Full-HD+

LOEWE.

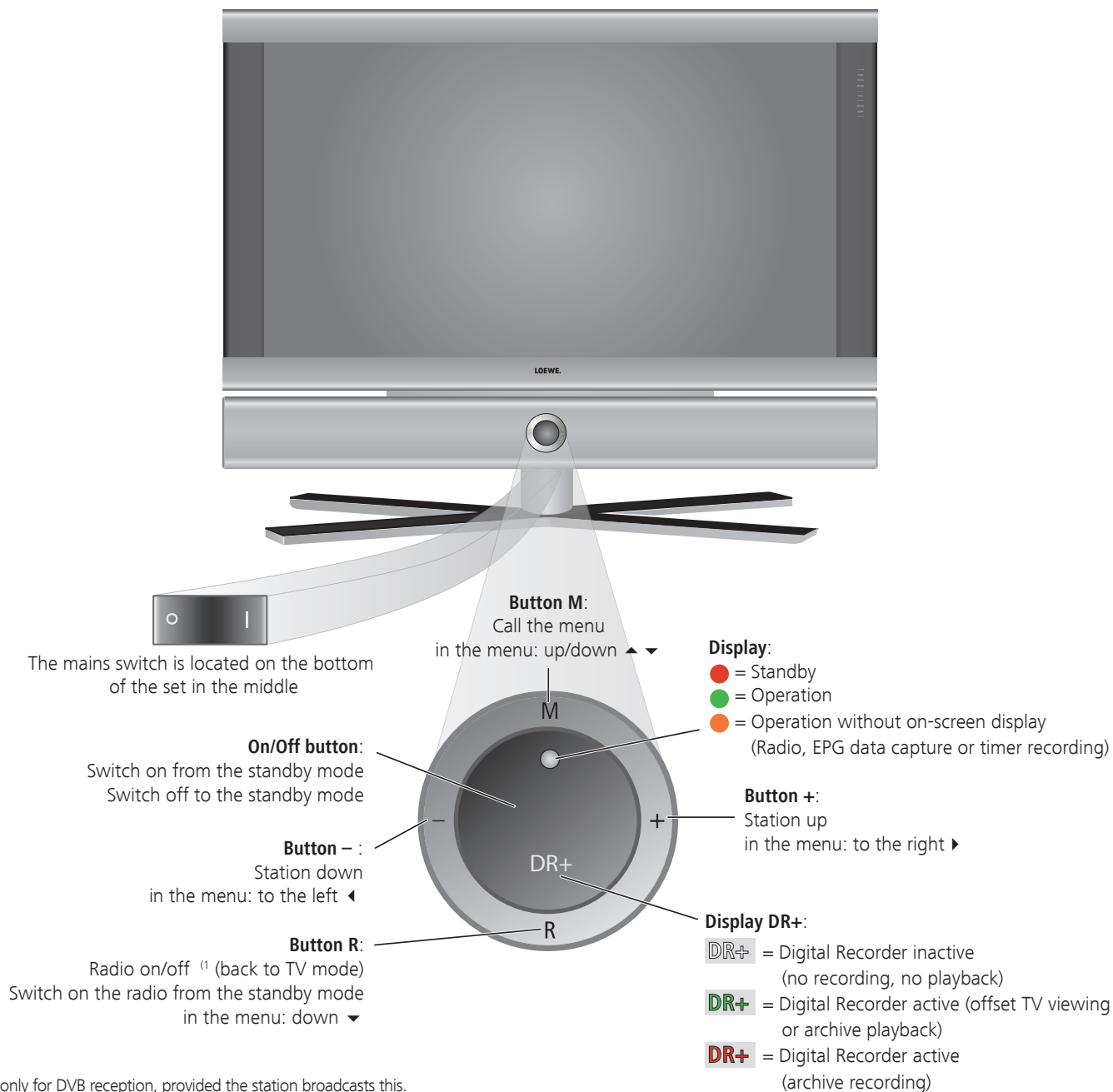# Contents

Remote Control – TV Functions

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(page 52) .... LED display for current operating mode

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(page 49) ....Timer overview on/off

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Switch on/off
– to standby mode ....(page 11)

Switch over to radio mode [1] ....(page 11; 36)

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Select station directly;
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Green button: [3]
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Red button: [3]
(page 22) ....Call DR archive

Digital Recorder: Jump back/Rewind/Replay [2]
(page 11) .... /in the wizard: Back

Direct recording

Yellow button: [3] Last station....................................(page 22)

Blue button: [3] Programme info on/off....................(page 22)

Digital Recorder: Jump forward/Fast forward [2]

Digital Recorder: Play/Set bookmark [2]

Digital Recorder: Stop (live picture) [2]

Digital Recorder:
Freeze picture/Pause (start offset TV viewing) [2]

[1] Radio only for DVB reception, provided the station broadcasts this.
Otherwise switch-over to an audio input.
[2] Description of the functions, see operating manual Digital Recorder.

[3] If MHEG-5 is selected for the location of TV set UK or IRL during the
first installation, the button has a different funktion.

Control unit front side of the device

Button M:
Call the menu
in the menu: up/down ▲ ▼

M

The mains switch is located on the bottom
of the set in the middle

Display:
● = Standby
● = Operation
● = Operation without on-screen display
(Radio, EPG data capture or timer recording)

On/Off button:
Switch on from the standby mode
Switch off to the standby mode

Button +:
Station up
in the menu: to the right ▶

Button – :
Station down
in the menu: to the left ◀

DR+

Button R:
Radio on/off [1] (back to TV mode)
Switch on the radio from the standby mode
in the menu: down ▼

R

Display DR+:

DR+ = Digital Recorder inactive
(no recording, no playback)

DR+ = Digital Recorder active (offset TV viewing
or archive playback)

DR+ = Digital Recorder active
(archive recording)

[1] Radio only for DVB reception, provided the station broadcasts this.
Otherwise switch over to an audio input.

Connections rear side of the device

Common Interface 1 (CI-Slot 1)

Common Interface 2 (CI-Slot 2)

USB connection (USB stick/card reader)

Headphones connection

S-VHS connection (AVS) (e.g. for camcorder)

Video in (AVS)

Audio in right (AVS)

Audio in left (AVS)

mains switch
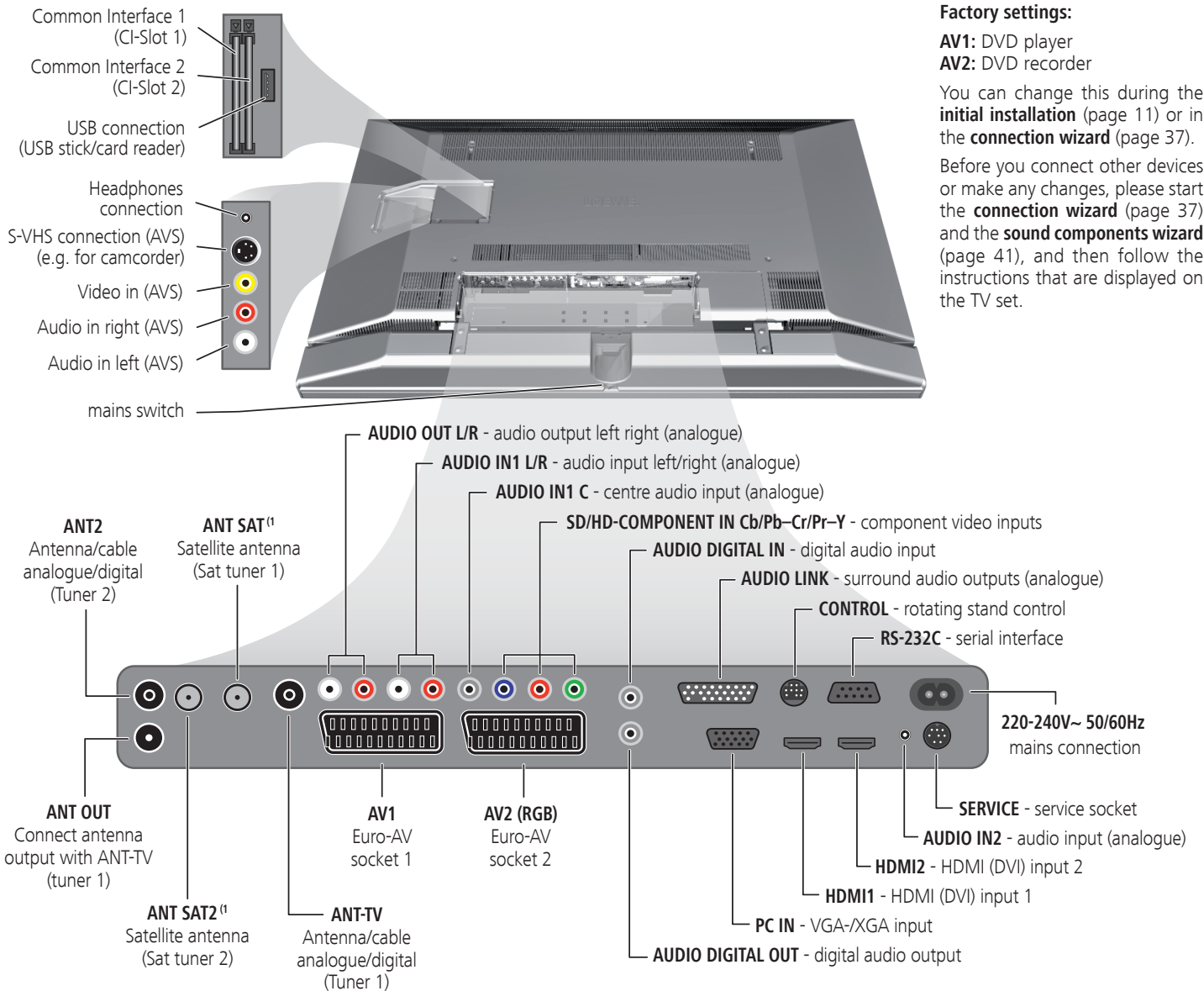
Factory settings:

AV1: DVD player
AV2: DVD recorder

You can change this during the **initial installation** (page 11) or in the **connection wizard** (page 37).

Before you connect other devices or make any changes, please start the **connection wizard** (page 37) and the **sound components wizard** (page 41), and then follow the instructions that are displayed on the TV set.

ANT2 Antenna/cable analogue/digital (Tuner 2)

ANT SAT (1 Satellite antenna (Sat tuner 1)

AUDIO OUT L/R - audio output left right (analogue)

AUDIO IN1 L/R - audio input left/right (analogue)

AUDIO IN1 C - centre audio input (analogue)

SD/HD-COMPONENT IN Cb/Pb–Cr/Pr–Y - component video inputs

AUDIO DIGITAL IN - digital audio input

AUDIO LINK - surround audio outputs (analogue)

CONTROL - rotating stand control

RS-232C - serial interface

220-240V~ 50/60Hz mains connection

ANT OUT Connect antenna output with ANT-TV (tuner 1)

ANT SAT2 (1 Satellite antenna (Sat tuner 2)

ANT-TV Antenna/cable analogue/digital (Tuner 1)

AV1 Euro-AV socket 1

AV2 (RGB) Euro-AV socket 2

AUDIO DIGITAL OUT - digital audio output

PC IN - VGA-/XGA input

HDMI1 - HDMI (DVI) input 1

HDMI2 - HDMI (DVI) input 2

AUDIO IN2 - audio input (analogue)

SERVICE - service socket

(1 Digital twin satellite tuner optionally available as an retrofit kit (see accessories, page 58).

Welcome

Thank you!

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

Your new TV set is equipped for the TV standard "HDTV" (High Definition Television). With its high resolution screen and future-oriented digital interfaces HDMI (High Definition Multimedia Interface), it offers the possibility of presenting HDTV programmes in outstanding picture quality.
HDTV is a worldwide, digital standard in the 16:9 format which revolutionises normal TV viewing. It is broadcast with an up to five times greater resolution than conventional signals and therefore creates an unexpectedly 3D image.

The TV set is equipped for digital reception. You can use the already frequently broadcast "everywhere television" (DVB-T) as well as digital cable (DVB-C) and also digital satellite reception (DVB-S) with a retrofit.
The Loewe Digital+ HD platform even allows dual reception of DVB-T, DVB-C and DVB-S (if MHEG-5 is selected for location of TV set UK or IRL, DVB-C und DVB-S reception is not possilbe, see also on page 12).

The TV set is equipped with a Dolby Digital Decoder. You can connect a speaker system (e.g. Loewe Individual Sound) or active speakers and enjoy movie theater sound.

You can connect a card reader or a USB stick with digital photos to your new TV set's USB connection and view your photos via the integrated PhotoViewer software.
All the functions can be operated with the Loewe remote control.

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

Scope of delivery

- LCD TV set
- Mains cable
- Table stand (Screen Table Stand)
- Remote control Assist with two batteries
- Marketing and service card
- Operating instructions of the Digital Recorder
- This operating manual

About this operating manual

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 59 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.

TV set equipment

See the rating plate on the rear of the set for the precise product designation. The precise features are listed in the **Integrated features** item in the index of the TV set (see page 15).

Trademarks

Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under licence from DTS, Inc. U.S. PAT. NO´S 5,451,942;5,956,974; 5,974,380; 5,978; 762; 6,487,535 and other U.S. and worldwide patents issued and depending. „DTS IS A TRADEMARK OF DTS, Inc."

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.

Acknowledgements

Welcome

Operating convenience with wizards

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

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

The wizards in overview

Initial installation

The initial installation wizard helps you with the initial installation and connection of any existing equipment (see page 11).

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 11). You can also call the antenna wizard in the TV menu under Connections ➜ Antenna DVB ➜ Antenna DVB-S [1] 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 24). You will find the search wizard in the TV menu under Settings ➜ Stations ➜ Search wizard.

Connecting external devices

The connection wizard ensures that all devices are correctly registered and connected. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 37). You will find the connection wizard in the TV menu under Connections ➜ New devices/modifications.

Connecting sound components

The sound component wizard ensures that the components which reproduce the TV sound are correctly registered, connected and set. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 41). You will find the sound components wizard in the TV menu under Connections ➜ Sound components.

Assist+

You can select the most important operating modes directly with the Assist+ menu (**ASSIST** button). Selectable modes are: TV, Radio digital, Teletext, DR archive, PhotoViewer and Index(see page 15).

Programming and managing recordings

The recording wizard helps you to program a video recording with a video recorder, DVD recorder, or the integrated Digital Recorder (see page 48).

Station list

The station list is a list of all stored stations. You can also use the station list for switching stations conveniently (see page 18).

Software update wizard

The latest software for your TV set can be loaded via satellite or via USB stick (see page 35).

Info display and TV index

An information display for each menu item

The info display automatically shows content-based info texts in the upper part of the screen for each menu item. It forms a convenient operating system with the index (see page 14).

An index in the TV set

The index gives you an overview of the functional scope of your TV set. You can also start wizards and menu settings directly from here (see page 15).
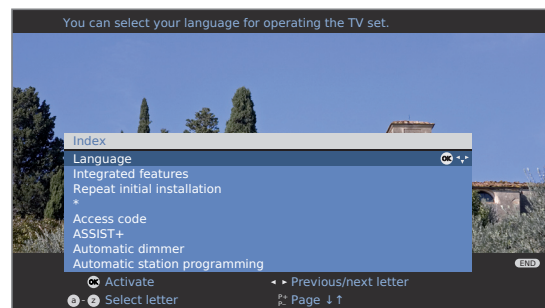
For your safety

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

Proper use and environmental conditions

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

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

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

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

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

Transporting

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

The LCD screen is made of glass or plastic and can break if not handled properly.
If the LCD screen is damaged and **liquid crystal** escapes, wear rubber gloves when moving the device. In the case of **skin contact** immediately wash thoroughly with water.

Power supply

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

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

Air circulation and high temperatures

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

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.
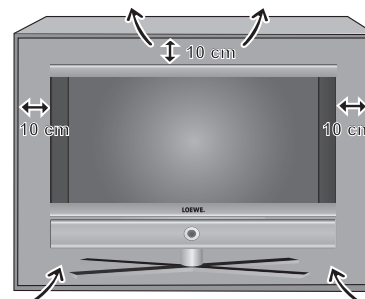
For your safety

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 page 58).

Supervision

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

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

Volume

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

Cleaning

Clean the TV set, the screen, and the remote control unit with a soft, moist, and clean cloth,only, **without** any **aggressive** or **scouring cleaning agents.**
The front screen may only be removed by your dealer, even if it is soiled on the inside.

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.

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 57). If you want to save even more energy then switch the device off with the mains switch. However note that in this case, EPG (Electronic Programme Guide) data will be lost, and it may be that programmed timer recordings **cannot** be executed via the TV device.

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.
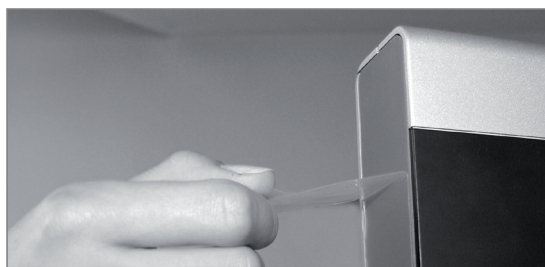
Initial installation

Installing the TV set

Install as manually rotatable table unit with the Screen Table Stand included.
See Accessories (page 58) for other installation possibilities.

Removing the protective foil

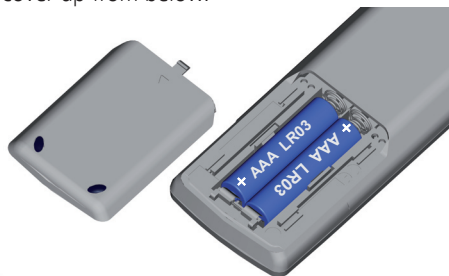Slowly and carefully remove the protective foil on the trim.

Preparing the remote control unit

Inserting or replacing batteries

Press the embossed arrow and push down the battery compartment cover.

Insert two alkaline manganese LR 03 (AAA) batteries; ensure that the + and – poles are correctly positioned!

Slide the cover up from below.

Adjusting the remote control for operating the TV set

TV   Press the **TV button**.

See page 52 to learn about operating other Loewe devices.

Connecting the TV set

Connecting to the mains

Remove the cover for the connections.

Connect the TV set to a 220-240V outlet:
First plug the small plug of the mains cable into the mains connection on the rear of the TV, then plug the large plug into a mains power outlet.

Connecting the antenna

Analogue / DVB-C / DVB-T antenna:
Plug the antenna plug of antenna system, cable system, or room antenna into the **ANT2** socket.
The connecting cable between **ANT-TV** – **ANT OUT** is plugged at the factory.

Satellite antenna, if retrofitted :
Connect an antenna plug, e.g. from the antenna change-over switch or from the twin-LNC of the satellite system to the sockets **ANT-SAT** and **ANT-SAT2**.
When connecting only one SAT antenna cable, connect it to **ANT-SAT**.
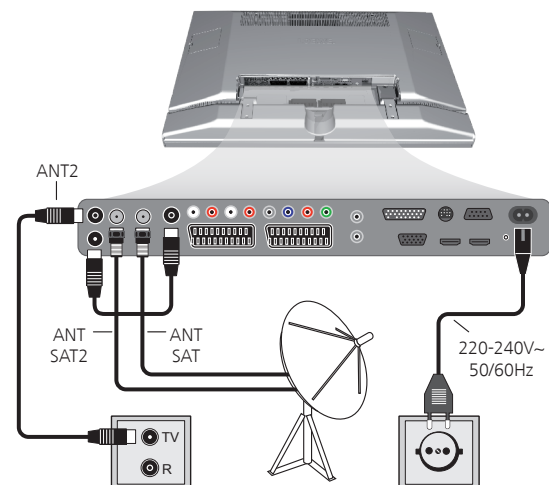
Connections on the back of the set (see also page 5).

Replace the cover over the connections.

Receiving coded stations

When using a CA module and a Smart-Card to receive coded stations, please observe the handling of the CA module (see page 34).

Initial installation

Turning the set on/off

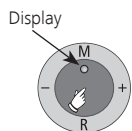### Switching the TV set to standby mode

Press the mains switch on the bottom of the set.

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

Switching the TV on/off on the control unit

Press the on/off button in the middle to switch the TV set on/off.

Display

Meaning of the display colour:
Red: Standby mode
Green: TV set is switched on
Orange: Radio mode, TV set receives EPG data or timer recording active

Switching the set on with the remote control

Press the **on/off** button.

or:
numeric buttons (0–99).

or:
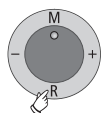**TV button**.

or:
OK button – station list is called.

Switching the set off with the remote control

Press the **on/off** button.

➡ Beforeswitching off the set with the mains switch, we recommend you to switch it to standby mode.

Switch on in Radio mode
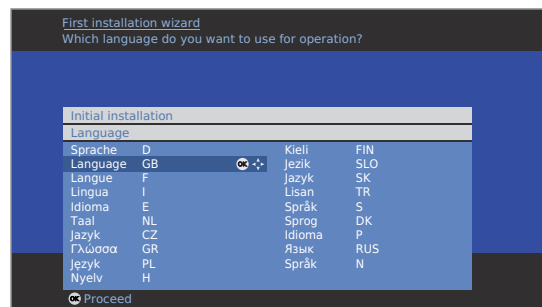
Press **R** on the TV control unit.

or:
RADIO button on the remote control.
(radio mode, see page 36).

First installation wizard

First 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.

```
First installation wizard
Which language do you want to use for operation?

Initial installation
Language
Sprache    D              Kieli    FIN
Language   GB        ⚫⟷   Jezik    SLO
Langue     F              Jazyk    SK
Lingua     I              Lisan    TR
Idioma     E              Språk    S
Taal       NL             Sprog    DK
Jazyk      CZ             Idioma   P
Γλώσσα     GR             Язык     RUS
Język      PL             Språk    N
Nyelv      H
⚫ Proceed
```

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

Brief explanation of button functions:

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

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

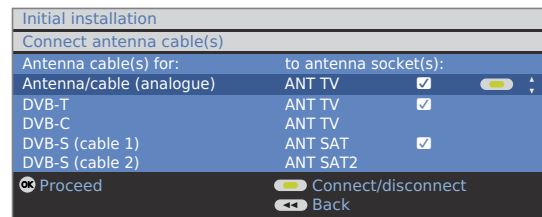With the **yellow button** you can select or remove the individual items (see the example below).
When an element is selected, it is marked by a checkmark ☑.

Use this button to go back one step.

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

```
Initial installation
Connect antenna cable(s)
Antenna cable(s) for:        to antenna socket(s):
Antenna/cable (analogue)     ANT TV      ☑     ▭  ↕
DVB-T                        ANT TV      ☑
DVB-C                        ANT TV
DVB-S (cable 1)              ANT SAT     ☑
DVB-S (cable 2)              ANT SAT2
⚫ Proceed                    ▭ Connect/disconnect
                             ◀◀ Back
```

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

Initial installation

Explanations of the setting possibilities, including the retrofittable satellite reception:

Location of TV set
Select the country for country-specific pre-settings.

If UK or IRL is selected for the location of TV set, it is possible to activate MHEG-5 (UK Freeview) for the TV set.

A dialogue appears, where you can confirm to set the operating software to the selected location.
If **Yes** is selected and confirmed with **OK**, the TV set turns off and on again automatically. First installation starts again after activating the operation software.

If MHEG-5 was activated, DVB-C and DVB-S can not be used anymore. Only terrestrial/cable and DVB-T stations are available.

Antenna selection

Antenna/cable (analogue):	analogue stations via cable/antenna
DVB-T:	digital, terrestrial stations
DVB-C:	digital stations via cable
DVB-S (line 1):	digital stations via satellite
DVB-S (line 2):	digital stations via satellite

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. Handling of the CA module is described on page 34.

DVB-T: Antenna
If you are using an active antenna, then select **yes (5V)** for the antenna power supply.

DVB-C: Settings
The conventional settings will be derived from the selection of set location. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (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: Satellite system
Select which satellite(s) you receive from a list. For more than one satellite, select the type of your changeover switch or communal satellite system additionally.
Ask your dealer in this regard.

High band
Specify here whether the high band of the selected satellite is to be searched in addition to the low band.

LNC frequencies Low Band / High Band
Normally, you do not need to change the values for high and low band, unless the LNC (LNB) of your satellite system uses a different oscillator frequency (important for the frequency display).
After you have made these settings, you should receive the picture and sound of the selected satellites (only with Astra1 and HOTBIRD).

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

Favoured signal source
Select the signal source that provides the stations to be on top of your station list (starting with station slot 1).

Start search
Start the automatic station search with **OK**.
First TV stations, then radio stations are searched for.

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.

➡ For TV sets with MHEG-5 software the stations are tied to "Logical Channel Numbers" – "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001.

Connecting additional devices
Then the connection and sound component wizard starts which helps you to log in, set and connect video recorders, decoders, a loudspeaker system or a HiFi/AV amplifier to your TV set. DVD players and DVD recorders are already registered at the factory.
You can start the connection wizard and the sound components wizard manually later and add new devices. Further information is available from page 37 (Connection wizard) and page 41 (Sound components wizard).

Initial installation

Digital Link Plus — If you have registered and connected a recorder in the connection wizard, the Digital Link Plus transmission begins at the end of the sound components wizard. If a Digital Link Plus capable recorder is connected, the station list of the analogue stations is transmitted to the external recorder.

You can also call Digital Link Plus under TV menu → Connections → Digital Link Plus.
If you have not connected a Digital Link Plus capable recorder, you can abort the transmission.

Explanations of the DVB-T antenna:

Room antenna — With good reception conditions a room antenna can be used for DVB-T (socket **ANT2**).

Active antenna — Under less favourable reception conditions, it is advisable to use an active antenna which has to be set accordingly in the initial installation or in the TV menu → Connections → Antenna DVB → Antenna DVB-T (see DVB-T antenna on page 12).

Unidirectional antenna — If the location is outside of the normal transmission range then a directional antenna can be used to improve reception quality.

Positioning/aligning DVB-T antenna

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

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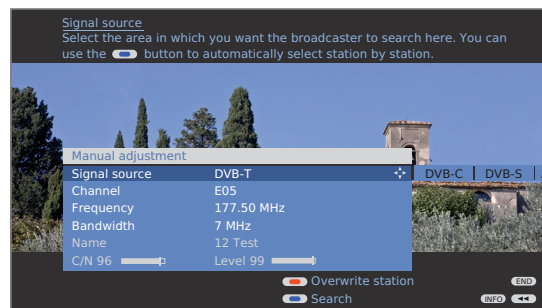A DVB-T station is received and selected.

(MENU) Call **TV menu**.

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

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

◀ ▶ Select **Manual adjustment**,
OK call manual adjustment.

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

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

Blue button: Start search.

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

Thereafter perform an automatic search for all DVB-T stations, see page 24.

Explanation of the setting possibilities:

Bandwidth — Depending on the selected channel and country the associated bandwidth of 7 or 8 MHz will be set automatically.

Operating convenience
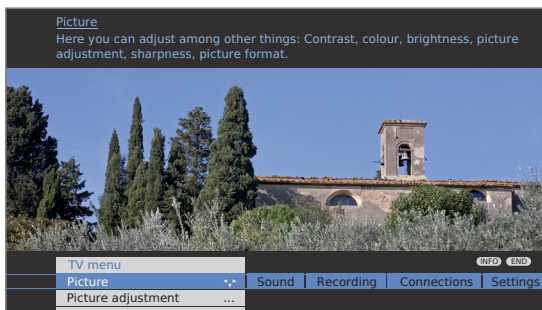
General information on menu operation

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

➠ In normal TV mode, without other displays.

MENU   Call **TV menu**.

Picture
Here you can adjust among other things: Contrast, colour, brightness, picture adjustment, sharpness, picture format.

TV menu
Picture | Sound | Recording | Connections | Settings
Picture adjustment ...

Example: Selecting and executing functions

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

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

◀ ▶ Set **Brightness**.

▲   Return to the **Brightness** menu line to make other picture settings.

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

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

◀ ▶ Select **on / off**.

END   Conclude the settings.

Inputs with the numeric buttons

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

The available letters are printed on the individual numeric buttons.
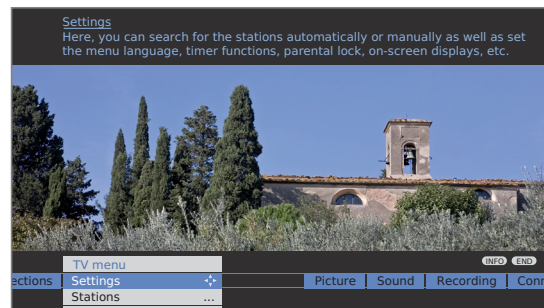
The info display

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

➠ A menu is displayed.

INFO   The factory setting makes the info display appear 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**.

Settings
Here, you can search for the stations automatically or manually as well as set the menu language, timer functions, parental lock, on-screen displays, etc.

TV menu
...ctions | Settings | Picture | Sound | Recording | Conne...
Stations ...

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

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   Call **TV menu**.

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

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

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

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

Operating convenience

The index in the TV set

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

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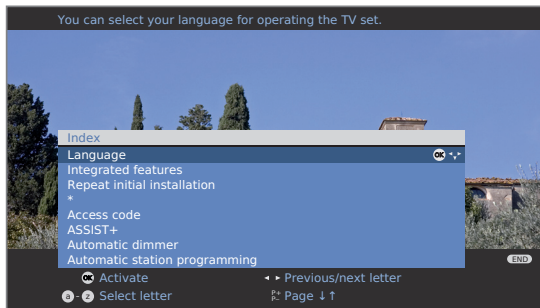
Call index

➠ In normal TV mode, without other displays.

INFO   Call **Index**.

You will see an info text for the highlighted keyword in the info display. If MHEG-5 is active, call the status-display with **INFO** and press **INFO** again for index.

(OK)   If an OK symbol appears in the marked line, this function can be called directly with **OK**.
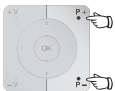
Selecting a keyword

Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 14).

or go with:

◀ ▶ to the preceding / next letters,

▼ ▲ from line to line,

P+/P– scroll backwards or forwards in whole pages.

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

The Assist+ menu

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

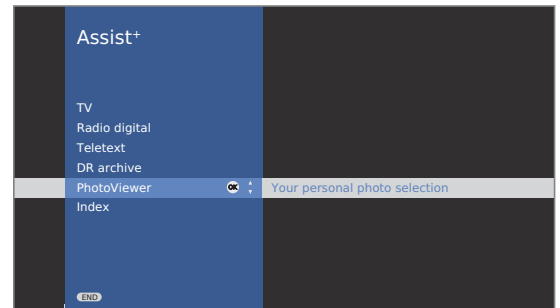### Open Assist+

ASSIST   Call **Assist+** menu.

(OK)   ▲ ▼   Select additional function.
      OK calls the function.

Description of the individual functions:

TV mode, see page 18 onwards.

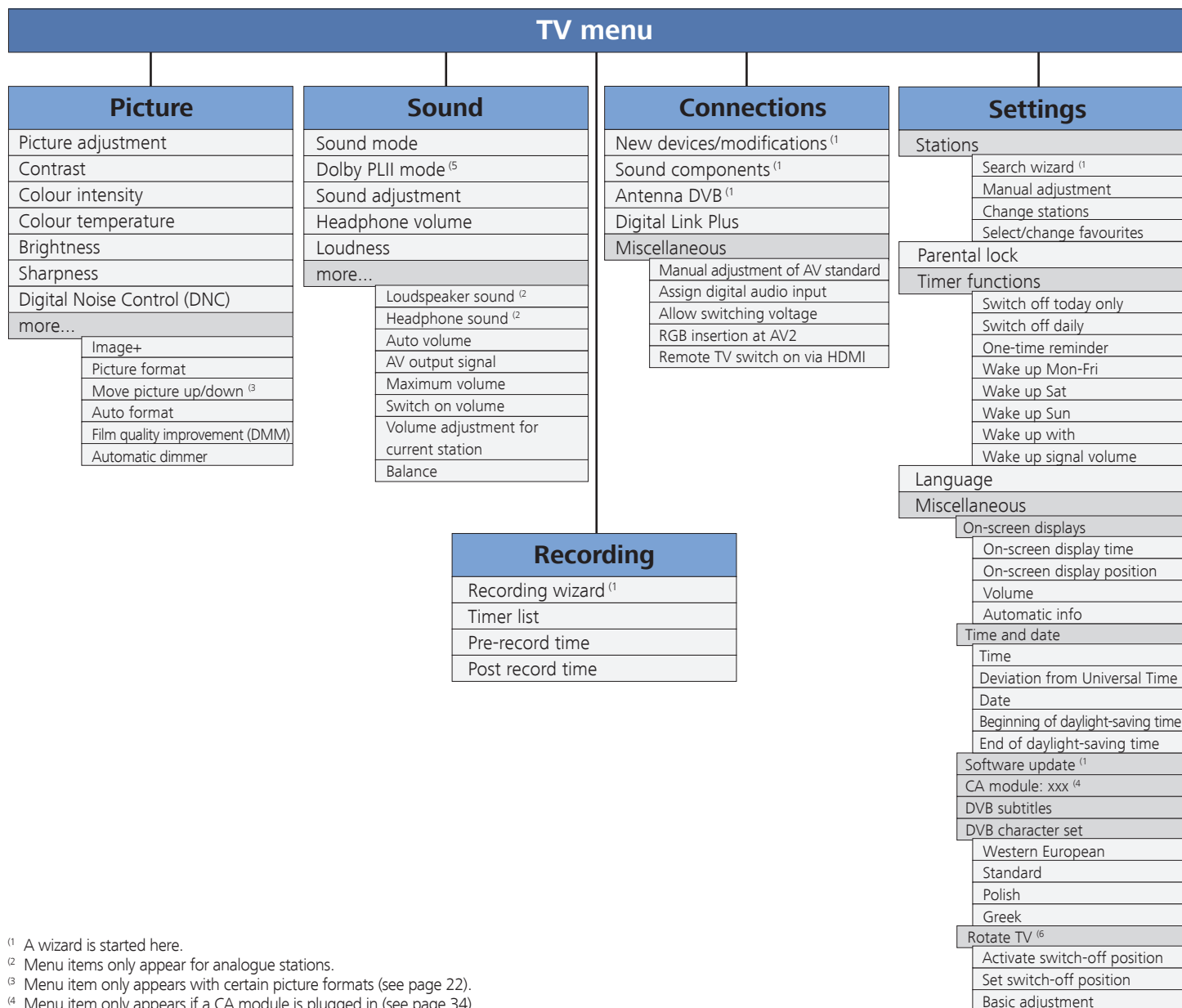Radio mode, see page 36.

Teletext mode, see page 32 onwards.

DR archive, see Digital Recorder manual.

PhotoViewer, see page 50 onwards.

Index, see left-hand column.

Operating convenience

TV menu – Overview diagram

TV menu

Picture
- Picture adjustment
- Contrast
- Colour intensity
- Colour temperature
- Brightness
- Sharpness
- Digital Noise Control (DNC)
- more...
  - Image+
  - Picture format
  - Move picture up/down [3]
  - Auto format
  - Film quality improvement (DMM)
  - Automatic dimmer

Sound
- Sound mode
- Dolby PLII mode [5]
- Sound adjustment
- Headphone volume
- Loudness
- more...
  - Loudspeaker sound [2]
  - Headphone sound [2]
  - Auto volume
  - AV output signal
  - Maximum volume
  - Switch on volume
  - Volume adjustment for current station
  - Balance

Connections
- New devices/modifications [1]
- Sound components [1]
- Antenna DVB [1]
- Digital Link Plus
- Miscellaneous
  - Manual adjustment of AV standard
  - Assign digital audio input
  - Allow switching voltage
  - RGB insertion at AV2
  - Remote TV switch on via HDMI

Settings
- Stations
  - Search wizard [1]
  - Manual adjustment
  - Change stations
  - Select/change favourites
- Parental lock
- Timer functions
  - Switch off today only
  - Switch off daily
  - One-time reminder
  - Wake up Mon-Fri
  - Wake up Sat
  - Wake up Sun
  - Wake up with
  - Wake up signal volume
- Language
- Miscellaneous
  - On-screen displays
    - On-screen display time
    - On-screen display position
    - Volume
    - Automatic info
  - Time and date
    - Time
    - Deviation from Universal Time
    - Date
    - Beginning of daylight-saving time
    - End of daylight-saving time
  - Software update [1]
  - CA module: xxx [4]
  - DVB subtitles
  - DVB character set
    - Western European
    - Standard
    - Polish
    - Greek
  - Rotate TV [6]
    - Activate switch-off position
    - Set switch-off position
    - Basic adjustment

Recording
- Recording wizard [1]
- Timer list
- Pre-record time
- Post record time

[1] A wizard is started here.
[2] Menu items only appear for analogue stations.
[3] Menu item only appears with certain picture formats (see page 22).
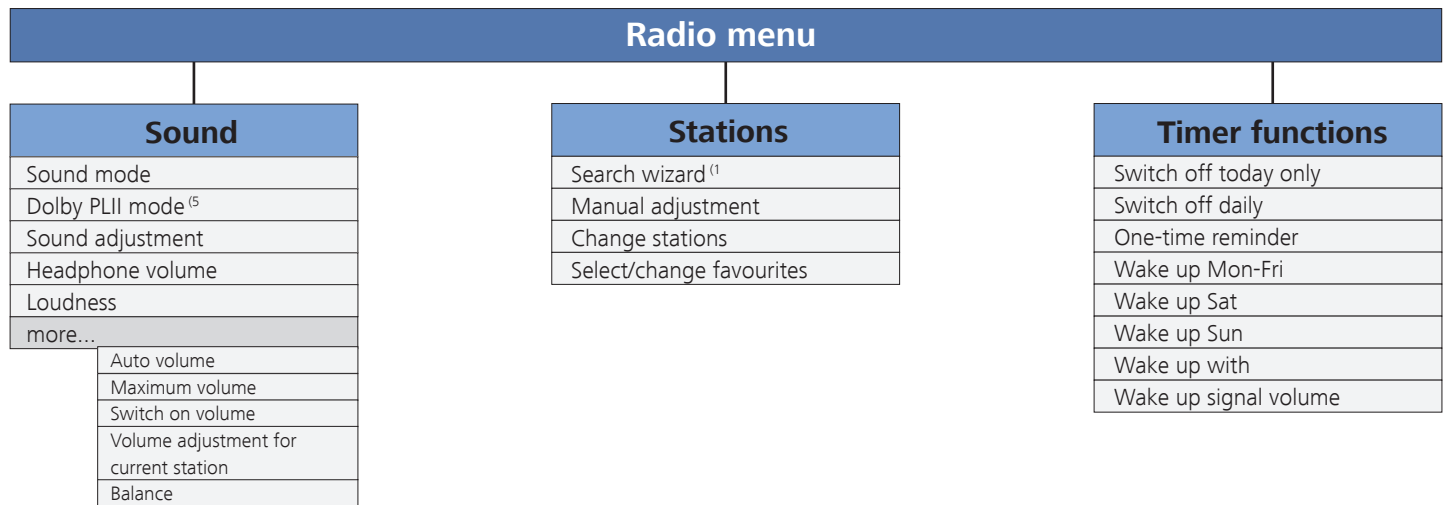[4] Menu item only appears if a CA module is plugged in (see page 34).
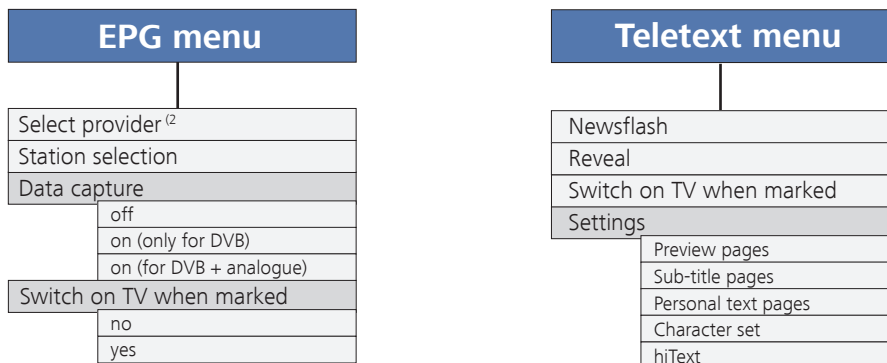[5] Menu item only appears with certain sound mode settings.
[6] Menu item only appears when, for example, a stand with motor drive (see Accessories, Installation possibilities, page 58) is used.

Operating convenience

Radio menu – Overview diagram

Radio menu		

Sound
Sound mode
Dolby PLII mode [5]
Sound adjustment
Headphone volume
Loudness
more...

	Auto volume
	Maximum volume
	Switch on volume
	Volume adjustment for current station
	Balance

Stations
Search wizard [1]
Manual adjustment
Change stations
Select/change favourites

Timer functions
Switch off today only
Switch off daily
One-time reminder
Wake up Mon-Fri
Wake up Sat
Wake up Sun
Wake up with
Wake up signal volume

Other menus – Overview diagram

EPG menu
Select provider [2]
Station selection
Data capture

	off
	on (only for DVB)
	on (for DVB + analogue)

Switch on TV when marked

	no
	yes

Teletext menu
Newsflash
Reveal
Switch on TV when marked
Settings

	Preview pages
	Sub-title pages
	Personal text pages
	Character set
	hiText

Daily operation

Select station

With the keys P+ and P– on the remote control

P+/P– station up/down.

The station display with sound identification is displayed briefly.

➡ If favourites are selected, the station is switched over in the favourites list with **P+/P–** (see page 19).

➡ The symbols for the sound identification are described on page 23.

➡ 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 23: Additional selection possibilities for DVB stations.

With the numeric keys of the remote control

1-digit stations

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

or:
Press the **numeric button** briefly, the station changes after 2 seconds (changes immediately in case up to 9 stations are stored).
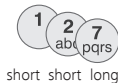
2-digit and 3-digit stations

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

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

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

4-digit stations

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

➡ If favourites are selected, the station in the favourites list is switched to with the numeric buttons (see page 19). Maximum two-digit station numbers are possible.

➡ If you select an unoccupied station slot, the next available station is switched to.

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

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

With the station list

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

OK call **Station list**.

Sorting numerically

Station list		
COMP. IN	5 hr-fernsehen	C
HDMI1/DVI	6 Phoenix	C
HDMI2/DVI	7 BR-alpha	C
VGA	8 3sat	C
DVD	9 EinsExtra	C
AVS	10 EinsFestival	C
VCR	11 EinsPlus	C
0 VIDEO	12 ZDFinfokanal	C
1 Das Erste	13 ZDFdokukanal	C
2 ZDF	14 ZDFtheaterkan	C
3 WDR Köln	15 arte	C
4 Bayrisches FS	16 DAS VIERTE	C

21:00 - 21:45 Urlaubsparadies - Toskana

Switch to ... / Scan stations / END
Select station / Change stations / INFO
Page ↑↓ / Favourites / Sort alphabetically

P+/P– scroll in the pages of the station list.

◄◄ ►► Jump to the next station block.

▲ ▼ ◄ ► Mark stations.

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

OK the marked station is called.

Blue button: Changes sorting from **numeric** to **alphabetic**.

Sorting alphabetically

Station list		
3sat C	COMP IN	
9Live C		
	Das Erste C	
arte C	DSF C	
ARD C	DVD	
AVS	DVD-REC	
Bayrisches FS C	EinsExtra C	
BR-alpha C	EinsFestival C	
BR	EinsPlus C	
	Eurosport C	
CNN INT		

21:00 - 21:45 Urlaubsparadies - Toskana

Switch to ... / Scan stations / END
Select letter / Change stations / INFO
Page ↑↓ / Favourites / Sort numerically

Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 14).

The first station for the specified letters is marked.

▲ ▼ ◄ ► Mark stations.

OK the marked station is called.

Daily operation

With the favourites lists

You can save and call your favourite stations in 6 favourites lists (e.g. for multiple users). Each favourites list can contain up to 99 stations. After initial installation, 10 stations from the station list are already stored in the first list. Change the favourites list to suit your requirements (see **Put together / changing favourites lists** on page 27).
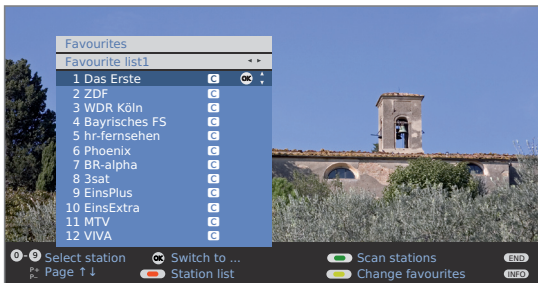
➡ In normal TV mode, without other displays:

OK calls the station list.

Red button: calls the favourites list.

Select station directly with **numeric buttons**.

or:

▲ ▼ Mark stations.

P+/P– scroll in the pages of the favourites list.

◀ ▶ Select other favourites list.

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

OK the marked station is called.

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 27.

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 again.

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

Explanation of the icons following station names:

T Digital DVB-T station (terrestrial via antenna)

C Digital DVB-C station (via cable)

S Digital DVB-S station (via satellite)

🔑 Coded station

Select video source

➡ Please ensure that the appropriate devices have also been registered with the device connection wizard (see page 37).

Via AV selection

Call **AV selection**.
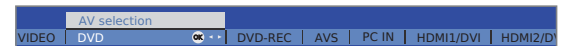
◀ ▶ Select desired device or connection,

OK to switch over.

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

Via station list

➡ In normal TV mode, without other displays:

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

In numerical sorting the connections or devices are always at the beginning of the list.
In alphabetic sorting, the connections or devices are sorted in alphabetically.

▲ ▼ ◀ ▶ Select connection/device.

OK to switch over.

Daily operation

Adjusting the sound

Switching sound off/on

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

Setting the volume

V+/V– volume louder / quieter.

The volume bar will be shown briefly if no other menu is displayed.
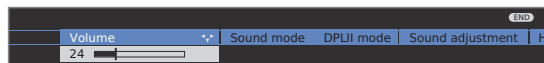
Setting the sound mode

🔇 Call **Sound mode**.

| Sound mode | ... | | | | | |
| optimal | ◂•▸ | (5)◂ | 4◂ | 3◂ | 2◂ | 1◂ |

◂ ▸ Select the number of speakers you want to hear.

Additional sound settings for volume adjustment and for Sound mode:

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

▲ Call additional sound settings.

			END
Volume	◂•▸	Sound mode	DPLII mode	Sound adjustment	H
24 ▬▬					

◂ ▸ 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,
▼ Go to the menu line below.

◂ ▸ Make changes.

Explanations of the sound settings:

Sound mode Select the number of speakers you want to hear. The selection depends on the connected sound components (from page 41) and on the transmitted audio signal.

➡ If the number of speakers appears in brackets, the sound of missing speakers is transmitted by the existing speakers (virtual).

optimal The momentarily reproduced audio signal is output with the ideal number of speakers.

1◂ Play centre sound or mono (left/right).
2◂ Play front sound (L/R stereo).
3◂ Play front and centre sound.
4◂ Play front and surround sound.
5◂ Play front, surround and centre sound.
Amplifier◂ Play via an external HiFi amplifier. Selection is only possible if an amplifier has been selected in the sound components wizard (see page 46).

➡ You can also enter the number of speakers with the numeric buttons of the remote control.

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

Headphone vol. Adjust the headphones volume.

Loudness Proper boost of bass and treble tones at low volume.

Dolby PLII mode Here you can make Dolby Pro Logic II sound settings for movie, music, matrix and personal settings. Menu item only appears with certain sound mode settings.

more ... call with **OK**.

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 Sound selection for two-sound broadcasts.

Maximum volume Determining the maximum volume that can be set.

Switch on volume Specify the volume that is set when switching on the TV set with the mains switch. This does not affect switching the set on from standby mode.

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.
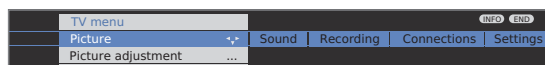
Balance Set Stereo-Balance so that the volume impression is identcal on the left and right.
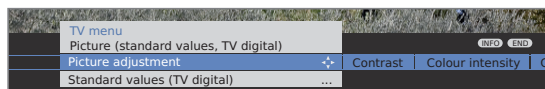
Daily operation

Adjusting the picture

(MENU) Call **TV menu**.

TV menu					
Picture		INFO END			
Picture adjustment	...				

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

TV menu			
Picture (standard values, TV digital)		INFO END	
Picture adjustment		Contrast	Colour intensity
Standard values (TV digital)	...		

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

◀ ▶ Make changes.

Explanations of the picture settings:

Picture adjustment	Switches the picture parameters between standard and personal values.
Contrast	Adjust contrast.
Colour intensity	Adjust the colour.
Colour temperature	Set warmer or cooler tints for the picture.
Brightness	Adjust the brightness of the picture.
Sharpness	Adjust the contour sharpness of the picture.
DNC	Removes or reduces the signal noise in the picture.
more ...	Call with **OK**.
Image+	Picture improvement on/off and Demo mode for Image+.
Picture format	Set picture format (see page 22).
Move picture up/down	Move picture vertically (see page 22).
Auto format	Automatic detection and setting of the picture format for Cinemascope or widescreen movies.
DMM	Reduce jolting.
Automatic dimmer	The TV picture adapts to the ambient brightness. The power consumption of the TV set is laso reduced.

Standard values / personal values for picture adjustment

(MENU) Call **TV menu**.

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

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

TV menu		
Picture (personal values, TV digital)		INFO END
Picture adjustment		
Standard values (TV digital)	OK	Personal values (TV digital)

(OK) ◀ ▶ Select desired values for picture,
OK call selected values for picture.

Explanations for picture adjustment:

Custom adjustments of contrast, colour intensity, colour temperature, brightness, sharpness and digital noise supression are saved in the personal values. There are separate personal values for every signal source (TV analogue, TV digital, HD analogue, HD digital, PC, PhotoViewer).

By selecting **Standard values** the picture parameters are reset to factory values for the respective currently active signal source.
For an explanation of the signal source; see glossary: **Signal input groups**.

In the index of the TV set, all the picture and sound adjustments can be reset to the factory values for all signal sources in one step under **Reset picture/sound** or **Factory settings picture/sound**.
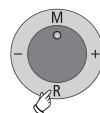
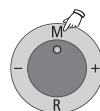## Operation without remote control

Changing the station on the TV set
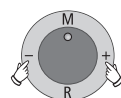
+ / − Station up/down.

Switching radio on or off or switching to radio

R Radio on / off or switching between TV and radio.

Calling the TV menu on the set

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

Direct control on TV set					
election	Volume		Brightness	Contrast	Picture format	Stat
	19					

− / + select function.

➡ **Service** is for customer service personnel only.

M or **R** go to the menu line below,
− / + make changes.

M move up one menu line,
− / + select other function.

Daily operation

Button functions

Every operating mode of the TV set (TV, Radio, Teletext, EPG, PIP, PhotoViewer and DR archive) has its own menu and own functions for the coloured buttons. The function of the coloured buttons is shown at the bottom of the menus and wizards. Below, some of the function are listed which you need in TV mode for the daily handling of your TV set.

### Functions of the coloured buttons in TV mode

➠ Thecoloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital Teletext).

Red button: Digital Recorder: DR archive on/off.
For TV sets with MHEG-5 software you can open the DR archive via the menu Assist+ (see page 15).

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

Teletext functions	INFO END
Teletext subtitles	Personal text pages
on, with normal size	...
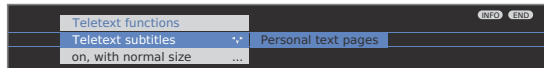
◄ ► Select **Teletext subtitles** or **Personal text pages**.
▼ Go to the menu line below in **Teletext subtitles**.
◄ ► Select the size of the Teletext subtitles,
OK show Teletext subtitles.
(display only if subtitles are available).

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

OK in **Personal text pages** calls the teletext pages or the teletext page directly if only one page is noted (for defining pages, see page 33).

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

Blue button: Show programme info.
For MHEG-5, no programme info is available.

1 ARD
14:30 - 15.15   Urlaubsparadies Toskana

| Programme info | 14:43 | END |
| Detailed info | OK | Detailed info (teletext) | Programme preview |
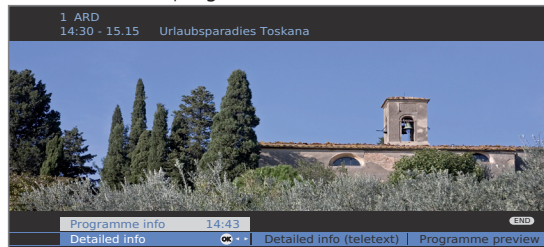
Permanent display of time

Press twice in rapid succession,the time is displayed permanently.

⏱ 14:42

⏱ or **END**: Hide time.

Selecting the picture format

Press the **picture format button** until the desired picture format is marked or

◄ ► to select the desired picture format.

The **Panorama** picture format can be switched between proportionally correct and format filling reproduction. Dark margins are visible on the right and left of the picture in proportionally correct reproduction.
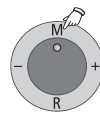
Switching over: Keep the **M** button on the set pressed, at the same time press the **Picture format** button on the remote control briefly.

Resetting: Press the same button combination again.

Explanations of the picture formats:

➠ Thesetting options depend on the transmitted picture content.

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

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

Panorama Proportionally correct or format filling reproduction (delivery status) of 4:3 broadcasts on the 16:9 screen. Station logos and subtitles remain visible.
See above for switching 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 picture signal is displayed on the TV set or fed in via the interfaces PC IN, HDMI1/DVI, HDMI2/DVI or COMP. IN, the picture formats 16:9 TV, 4:3 TV as well as 16:9 PC, 4:3 PC and Zoom can be set.

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** ▲ ▼.

➠ ForTV sets with MHEG-5 software you can switch back and forth quickly between two stations using this buttons (see also on page 18).
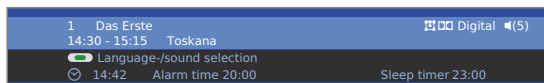
Daily operation

Status display

➥ In normal TV mode, without other displays.

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

```
1    Das Erste                          ▯▯ Digital  ◀(5)
14:30 - 15:15    Toskana
      ● Language-/sound selection
      ⏱ 14:42      Alarm time 20:00        Sleep timer 23:00
```

You will see the number and name of the station and the title of the current broadcast (if available) and the sound identification in the top two lines.

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

Explanations of the symbols for sound identification:

Transmitted audio signal:

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

Transmitted audio channels:

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

Selected listening mode:

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

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

Additional selection possibilities for DVB stations

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

➥ The **coloured buttons** do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital Teletext).

➥ If during the status display you press one of the **coloured buttons** or the **TEXT button** then the associated selection menu will be displayed.

➥ The selection line is also displayed automatically when a new broadcast with different options to the previous broadcast begins or when you switch stations.

The following options are possible:

Red button: Channel selection for multi-channel providers

Green button: Language/audio selection

Yellow button: Time selection

Blue button: Protection of minors

TEXT: DVB subtitles

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

Explanations of the selection possibilities:

DVB subtitles — The subtitle selection refers exclusively to DVB subtitles and is not offered by all stations. Many stations only transmit subtitles by teletext.

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

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 36).

➡ Station management is not possible if a programmed timer recording is still pending.

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

➡ Youhave to repeat the initial installation (see page 11) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones. Do also use the first installation if you want to change to receiving MHEG-5 stations (attend restrictions for DVB software update, see page 35).

(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:

Search wizard
Your TV carries out the update of the station range (search for new stations; delete stations no longer broadcast) with the following settings:
Location of TV set   United Kingdom
Signal source   DVB-T

TV menu
Settings
Stations
Search wizard
Change search settings   [OK] [◆◆]   Start search/update
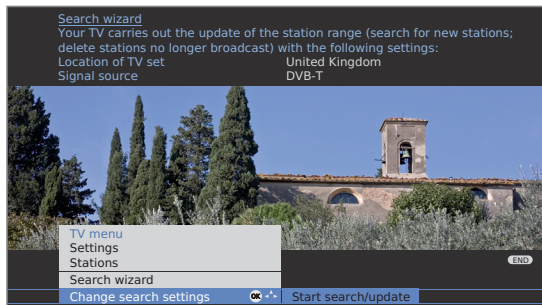
If you want to change these search settings:

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

If you agree with these settings:

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

🔴 🟢 🟡 🔵 **Red button**: Abort current search/update.

Explanations of some search settings:

Set location   Select the country for country-specific defaults and station sorting.

Signal source   Select antenna, cable, or satellite here, depending on where you want to search for new stations.
At this point you can also call a configuration of the DVB-T and DVB-S antennae via the green button (see page 12).

Antenna/cable: With selection of set location the conventional TV
TV/colour   standard/colour standard is the default. This should only
standard   be changed if stations with other standards are to be searched.

Encrypted   You can state whether coded stations are to be searched
stations   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 34.

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

DVB-C   With the selection of set location the conventional set-
Settings   tings 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   The symbol rate is specified by the satellite provider and
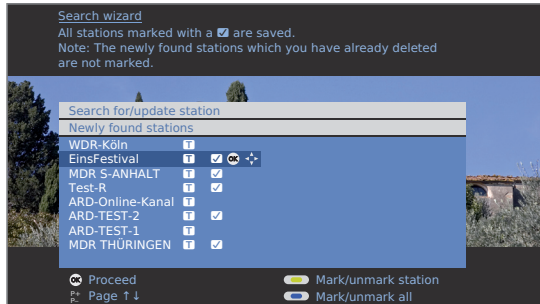Symbol rate   normally does not need to be changed.

Managing stations

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

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

OK List of new stations found
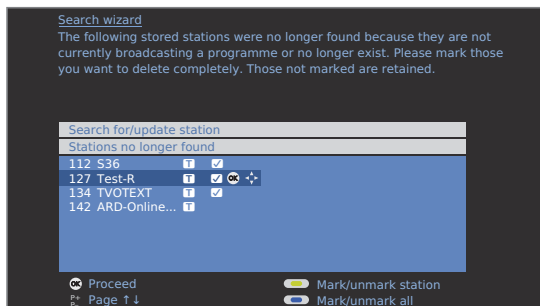

▲ ▼ ◄ ► Select station,

Yellow button: Mark / unmark station
Blue button: Mark / unmark all

    OK saves the selected stations.

Afterwards, a list of the stations which are saved but which are temporarily not broadcasting or no longer exist is displayed, if available.
The number of the memory location used is displayed in front of the station. Please select the stations you really want to delete.

▲ ▼ ◄ ► Select station,

Yellow button: Mark / unmark station
Blue button: Mark / unmark all

    OK deletes the selected station.

END: Exit the search wizard.

Search/update station – manual search
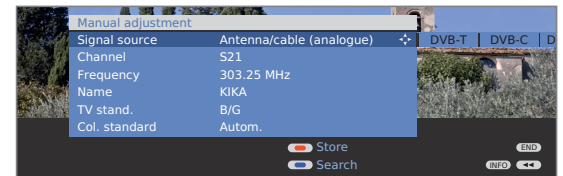
(MENU) Call **TV menu**.

◄ ► 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 11 onwards).

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

Managing stations
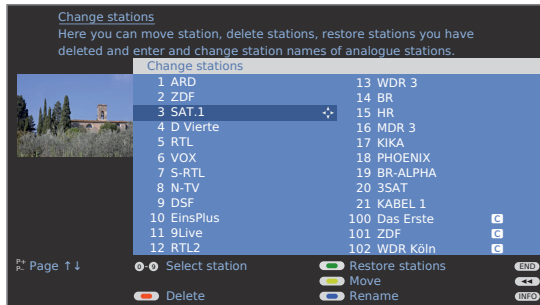
Change, delete, move, rename, restore stations

➠ **Change stations** can also be called via the station list (page 18).

MENU Call **TV menu**.

◄ ► Select **Settings**,
▼ go to the menu line below.

◄ ► Select **Stations**,
▼ go to the menu line below.

◄ ► Select **Change stations**,
OK call list of stations.

```
Change stations
Here you can move station, delete stations, restore stations you have
deleted and enter and change station names of analogue stations.
┌─────────────────────────────────────────────────┐
│ Change stations                                   │
│ 1 ARD              13 WDR 3                        │
│ 2 ZDF              14 BR                           │
│ 3 SAT.1        ✧   15 HR                           │
│ 4 D Vierte         16 MDR 3                        │
│ 5 RTL              17 KIKA                         │
│ 6 VOX              18 PHOENIX                      │
│ 7 S-RTL            19 BR-ALPHA                     │
│ 8 N-TV             20 3SAT                         │
│ 9 DSF              21 KABEL 1                      │
│ 10 EinsPlus        100 Das Erste        C         │
│ 11 9Live           101 ZDF              C         │
│ 12 RTL2            102 WDR Köln         C         │
│ Page ↑↓    ● Select station  ● Restore stations  END │
│                              ● Move            ◄◄  │
│            ● Delete          ● Rename          INFO │
└─────────────────────────────────────────────────┘
```

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

◄ ► ▲ ▼ or **numeric buttons:**
to select the appropriate station.
Scroll with **P+/P–** if necessary.

Delete station

Red button: Starts **Delete** station.

▲ ▼ mark several stations if needed,

OK to execute the delete.

Move station / Change order

➠ Not possible for MHEG-5 stations.

➠ Stations can only be resorted within their signal source block.

Yellow button: Starts **Move** station.

▲ ▼ mark several stations if needed,

OK to end marking.

▲ ▼ Selection insert position from which the marked stations are to be inserted,

OK to execute the move.

Rename station

➠ Not possible for MHEG-5 stations.

➠ DVB stations for which the station name is also broadcast cannot be renamed. In this case, the **Rename** function is hidden.

Blue button: Starts **Rename** station.

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

► Input position one character to the right (also for space).

◄ Input position one character to the left deletes the character.

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

Green button: Switch upper/lower case letters.

OK to save new name.

Restore stations

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

Green button: Starts **Restore stations**.

```
┌─────────────────────────────────────────────────┐
│ Change stations                                   │
│ Restore stations                                  │
│ 3sat                   Das Erste        S         │
│ KIKA                   Das Vierte       S         │
│ ZDF            OK ✧    RTL Television    S         │
│ ZDFinfokanal     S     9Live                      │
│ ZDFdokukanal     C     WDR Köln         T         │
│ ZDFinfokanal     C     VOX                        │
│ Eurosport        T     ProSieben        C         │
│ NONAME           T     Super RTL        C         │
│ RTL                    n-tv                        │
│ Phoenix                DSF                         │
│ BRalpha                RTL2                        │
│ NDR FS HH              KABEL1                      │
│ ● Restore                               END       │
│ ● Cancel restore                        ◄◄        │
│ Page ↑↓                                 INFO      │
└─────────────────────────────────────────────────┘
```

▲ ▼ ◄ ► 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 19).

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.

Select/change favourites

All stations	Stations of Favourite list1
1 Das Erste C	1 Das Erste C
2 ZDF C	2 ZDF C
3 WDR Köln C	3 WDR Köln C
4 Bayrisches FS C	4 Bayrisches FS C
5 hr-fernsehen C	5 hr-fernsehen C
6 Phoenix C	6 Phoenix C
7 BR-alpha C	7 BR-alpha C
8 3sat C	8 3sat C
9 EinsExtra C	9 EinsExtra C
10 EinsFestival C	10 EinsFestival C
11 SAT.1 C	11 SAT.1 C
12 RTL C	12 RTL C

0-9 Select station   Next favourite list   END
Page ↑↓   Clear favourite list   Change sorting   INFO

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 26).

OK to save new name.

Add station to favourites list

➠ All stations(left column) must be selected. If not, change the list with ◀ .
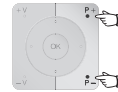
P+/P– Scroll in the pages of the station list if necessary.

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

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

Delete station from favourites list

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

▲ ▼ mark station to be deleted.

OK removes the marked station from the favourites list.

or:

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

OK confirms clear favourites list.

Move / change order of stations in the favourites list

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

▲ ▼ mark station to be moved.

Yellow button: Starts **Move station**.

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

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

OK to execute the move.

Picture in Picture

Picture in Picture (PIP)

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

➠ The coloured buttons do not work as described below for TV sets with MHEG-5 Software, but they operate as described on page 33 (Digital Teletext).

➠ A concurrent representation of two HDTV signals is not possible.

➠ A concurrent representation of two coded stations is not possible.

➠ Picture change and station selection is restricted during recording.

Your TV set distinguishes between two PIP displays:

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

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

The PIP operation distinguishes between two functionalities:

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

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

Start and end Picture in Picture mode

PIP Show/hide PIP.

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

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

Standard PIP operation:

PIP as freeze picture

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

Red button: Freeze picture in PIP on / off.

Swap contents of PIP and main picture

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

Yellow button: swaps contents of TV picture and PIP picture.

Select the PIP picture

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

Select the station as usual.

2 ZDF
17.00 - 18.30 Flora & Fauna

Select the station for the main picture

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

Select the station as usual.

1 ARD
17.30 - 20.00 Toskana

Scan station in the PIP

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

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

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

Picture in Picture

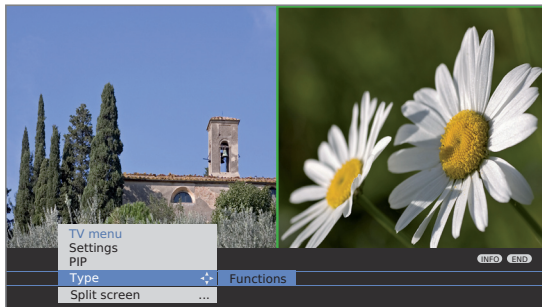## Configure Picture in Picture (PIP) mode

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

Start PIP menu

➠ PIP mode started,
   if not, press **PIP button**.

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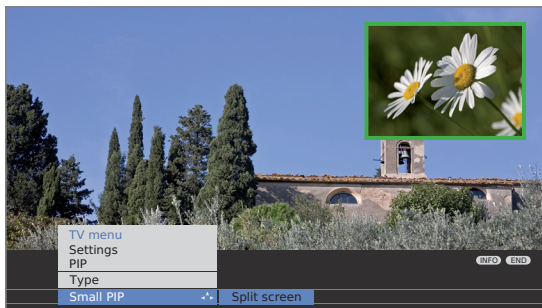   if not, press the **green button**.

(MENU)   Call the PIP menu.

Switch to Small PIP / Split screen

➠ PIP menu open.

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

◀ ▶ Select **Small PIP** or **Split screen**.

Change position of the PIP small picture

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

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

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

Switch to iPIP / Standard PIP function

➠ PIP menu open.
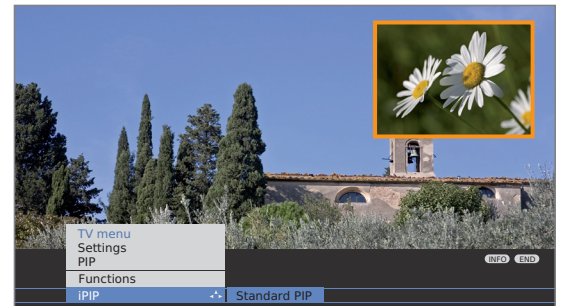
◀ ▶ Select **Functions**,
▼ go to the menu line below.

◀ ▶ Select **iPIP** or **Standard PIP**.
   In iPIP the frame around the PIP picture is orange.

iPIP operation:

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

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

Electronic Programme Guide

Electronic Programme Guide – EPG

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

Starting and ending EPG

EPG   Switching EPG on / off

➧ Awizard will guide you through the necessary presettings the first time you start the EPG. If you have analogue reception, you enter the data capture for analogue stations after that (see next page).

➧ For TV sets with MHEG-5 software, EPG is only possible for DVB-T stations.

EPG (Electronic Programme Guide)	Mon 31.07./16:05
Date	Mon 31.07
Time	now •• soon 17:00 18:00 19:00 2
Stations	all
Topics	all

15:57-16:59 arte	Charmed - Zauberhafte Hexen
16:00-16:10 Das Erste	Tagesschau
16:00-16:10 ZDF	heute - in Europa
16:00-16:15 WDR Köln	WDR aktuell
16:00-16:05 Bayerisches...	Rundschau
16:00-16:30 hr-fernsehen	Schlemmerreise Spanien
16:00-16:15 MDR FERNS...	Hier ab vier
16:00-16:30 NDR FS HH	Tipps und Trends - Der Verbrauche...
16:00-16:05 SWR Fernse...	Baden-Württemberg aktuell

2 ZDF

Charmed - Zauberhafte Hexen ▫▫

TEXT Detail   OK View   Record
Page ↑↓   0-9 Select time   Select date, ... , topics

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

🔴🟢🟡🔵 **Blue button:** Switches between the upper default lines **date**, ..., **topics** and the lower programme list.

Switching and memorizing with the programme list

➧ In the program list first all currently running programmes are listed.

➧ You are in the lower programme list, if not, press the **blue button**.

OK ▾▴ Select station,
OK view / memorise.

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

Memorise   The programme has not started yet and is memorised. A ☑ appears in front of the programme. The TV set switches over automatically to the beginning of the programme or, if set in the EPG menu (page 31) on from standby mode.

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.

EPG (Electronic Programme Guide)	Mon 31.07./16.05
Date	Mon 31.07 ✛ Tue 01.08. Wed 02.08. Thu 03.08.
Time	now
Stations	all
Topics	all

15:57-16:59 arte	Charmed - Zauberhafte Hexen
16:00-16:10 Das Erste	Tagesschau
16:00-16:10 ZDF	heute - in Europa
16:00-16:15 WDR Köln	WDR aktuell
16:00-16:05 Bayerisches...	Rundschau
16:00-16:30 hr-fernsehen	Schlemmerreise Spanien
16:00-16:15 MDR FERNS...	Hier ab vier
16:00-16:30 NDR FS HH	Tipps und Trends - Der Verbrauche...
16:00-16:05 SWR Fernse...	Baden-Württemberg aktuell

2 ZDF

Charmed - Zauberhafte Hexen ▫▫

END   Change to programme list   MENU

Example   If you are looking for the next news broadcast, select today's date, for time, select **soon**, for stations select **all**, and for topics select **News**. Then all the news programmes beginning in the future will be listed in the programme list below.

Time entry   If the line **Time** is selected, then you can enter the time after which the programs 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. If "**...**" has been selected, a single station can be selected. Then, only the programmes of this station are displayed.

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

Paging through the programme list

P+/P– paging backwards / forwards.

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

Electronic Programme Guide

Calling additional information about the programmes

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

(TEXT) You can call detailed information with the **TEXT button** if this function is offered by the TEXT icon in the lower left.

Programming a recording for a recorder

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

▼ ▲ Mark the desired programme.

Red button: Starts recording wizard.

Change or confirm timer data if necessary (see page 48, the direct recording path).

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

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

Configuring EPG

Start the EPG menu

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

(MENU) Call the **EPG menu**.

EPG menu			INFO ◄◄ END	
rovider	Station selection OK ◄ ▸	Data capture	Switch on TV when marked	Se
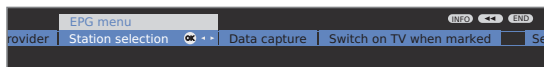
Settings in the EPG menu:
Select provider (for analogue stations only), **Station selection, Data capture, Switch on TV when marked**.

Explanations of setting possibilities in the EPG menu:

Select Provider — In **analogue TV reception**, there are possibly different providers who broadcast the EPG data for certain station packages. To get another range of stations, you can change the provider with the **Provider selection**. If the provider you are looking for is not in the list, then use the **yellow button** to perform a **Provider search**.
The stations offered by the provider will be displayed in a list.

Station selection — You can remove certain stations from the programme guide. These stations must be deactivated in the **Station selection**. First, all stations for which programme information can be provided are marked with a ☑. Stations without a ☑ are not included in the programme guide. With the the coloured buttons you can select or remove the individual stations, select all stations at once or select only the stations on the favourites lists.

Marking the stations according to reception ranges:
E analogue stations via antenna/cable, for which the current provider supplies data.
T digital terrestrial stations DVB-T,
C digital cable stations DVB-C,
S digitale satellite stations DVB-S [1].

Data capture — If you want to use EPG for analogue and digital stations, select **on (for DVB + analogue)**. If you want to use EPG and only have DVB reception, select **on (only for DVB)**. If you are not using EPG and therefore do not want to receive any EPG data, select **off**.

After making changes in the EPG menu, or each time the mains switch has been switched off, the EPG data must first be captured. To do this, switch on the device and select (for analogue stations) the station that you have defined as provider, and let the TV set run for about 1 hour with the selected station. Or switch the TV set to standby mode. After 2 minutes the display on the TV lights orange and the EPG data capture begins. When the data capture process has concluded the display will return to red. The data capture process is usually performed between 2:00 am and 5:00 am, when the TV set is in standby mode.

Switch on TV when marked — If the TV set is switched on, the TV set will switch over to these stations, if there are any memorised programmes. If the TV set is in standby mode when a memorised programme begins, then you can specify here whether the set should be turned on in this case. If you have set "**yes**" in the menu, the TV set will be switched on. If you are not in at the time, a safety prompt makes sure that the TV switches off automatically after 5 minutes without your acknowledgement.

[1] Digital twin satellite tuner optionally available as an retrofit kit (see accessories, page 58).

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

TEXT   Switching 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 to 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 button: Show / hide TV picture.

Additional page selection possibilities

1st possibility:

INFO   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   **OK** to call the page.

4th possibility:

➠ The page consists of several sub-pages indicated by the selection option on the last line.
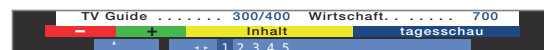
◀ ▶ Page through sub-pages.

Call TOP table

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

OK Call **TOP table**.
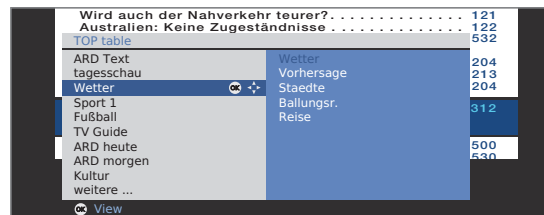
▼ ▲ mark topic area,
◀ ▶ select topic column,
▼ ▲ select topic,

OK to 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.

(OK) ▼ ▲ 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 48, the direct recording path).

OK to confirm.

Teletext menu

In the Teletext menu you can, among other things, activate news, 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.

```
 100  100   ARDtext        Do  07.09.06     14:14:42

   ARD Text ①

 Politik: Die neuen Gesetzesentwürfe . . . . . . .  120
 Wird auch der Nahverkehr teurer?. . . . . . . . . . . .  121
 Australien: Keine Zugeständnisse . . . . . . . . . . . .  122
 Tote bei Zugunglück in Schweden . . . . . . . . . . . .  532

 Tennis: Auftaktmatch wurde abgebrochen . . . . . . .  204
 Formel 1: Neues Reglement für Motoren. . . . . . . .  213
 Fussball: Heimsieg für den Meister . . . . . . . . . . .  204

 13:00   ARD-Mittagsmagazin . . . . . . . . . . . . . . . .  312
 14:00   Tagesschau

 Tagesschau . . . .   110/112   Kultur. . . . . . . . .   500
 Wetter                 170   Gesellschaft. . . .   530
                                                  INFO  END
 Teletext menu
 Newsflash        OK ◀ ▶   Reveal   Recording wizard   Settings
```

Explanations of the Teletext menu functions:

Newsflash The current page is hidden when you activate **New mess.**. A symbol at the top left indicates that the function is active. If the contents of the message are updated and it is a small newsflash, this is displayed in the TV picture. If it is a full screen page, the symbol is displayed in blue and the page can be called with the **OK button**.

Reveal Shows concealed information, e.g. for quiz questions or VPS times in the programme preview pages.

Explanations of the Teletext menu functions:

Recording wizard A wizard for **recording** via teletext helps to program an external recorder or the integrated digital recorder, see also the left column.

Settings Other Teletext menu functions:

Preview pages Input of the first teletext programme preview page if this deviates from the factory setting (page 301).

Sub-title pages Input of the teletext subtitle pages for every station if this deviates from the factory setting (page 150).

Personal text pages Define up to six teletext pages which can be opened later from a list in the menu **Teletext functions → Personal text pages** (in TV mode press **green button**, see page 22).

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.)

Digital Teletext (MHEG-5)

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

➠ Only for TV sets with MHEG-5 software.

➠ At the moment only available in United Kingdom and Ireland.

➠ Digital teletext is not available when DVB subtitles are being displayed.

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

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

Depending on the provider's respective offer, you can use the ▲ ▼ ◀ ▶ buttons and the **OK** button, the **coloured keys**, 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.

DVB

Conditional Access Module (CA module)

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

The CA module and the Smart Card are not part of the TV set's scope of delivery. They are usually available from your dealer. Loewe provides no guarantee for the functioning of the CA module.

Inserting the Smart Card into the CA module

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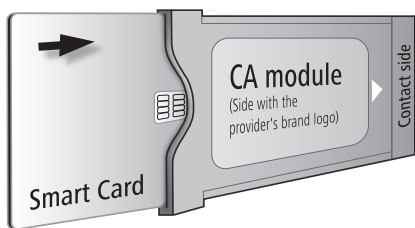
Inserting the CA module in the CI slot

➠ Switch off the TV set's mains switch.

Remove the cover from the rear of the set.
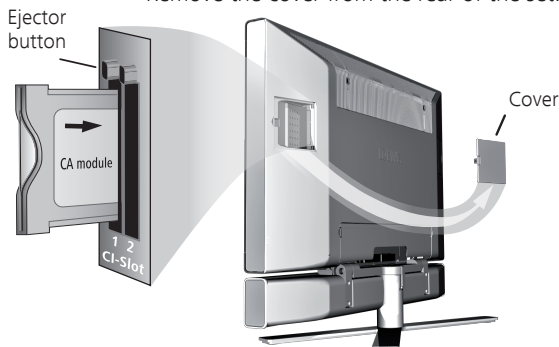
Carefully insert the CA module in CI slot 1 or CI slot 2 with the contact side forward.

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 or no CA-module was inserted.

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 prompts search settings.

See page 24 for a description of the search settings.

Calling CA module information

➠ This menu is only available for digital stations.

MENU   Call **TV menu**.

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

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

◀ ▶ Select **CA module: xxx**
(xxx corresponds to the CA module provider),

OK to call information.

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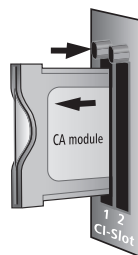
Removing the CA module

➠ Switch off the TV set's mains switch.

Remove the cover from the rear of the set.

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

Remove the module from the set.

Replace the cover.

DVB

Software update

TV base software and DVB software

You can update your TV's base and DVB software. The latest software versions are broadcast by satellite (only Astra1 at the moment) or can be installed in your set with a USB stick.
Please contact your dealer for a software update via USB stick.

➡ Location of TV set UK or IRL: With the DVB software update either MHEG-5 or DVBi3 is updated depending on the selection during the first installation. After this update it is not possible any longer to switch between MHEG-5 or DVBi3 software via first installation.

➡ MHEG-5 software update only available via USB stick and DVB-T.

Automatic search for new software via satellite

If your set has a retrofitted satellite tuner, it determines overnight whether a new software version is available via satellite. However the TV set must remain in standby mode for this (do not switch off the set with the mains switch).

If a new software version has been found, the set informs you with an on-screen message the next time it is switched on (see right column – Loading new software).

Manual search for new software via USB / satellite

If it is not automatically displayed that a new software is available when switching on the set, you can also run a manual search.
The system first checks whether a software update is available on an inserted USB stick. If not the system will search for an update via satellite.

MENU   Call **TV menu**.

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

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

◀ ▶ Select **Software update**.
OK calls software update wizard.
The software versions currently loaded in the set are listed.
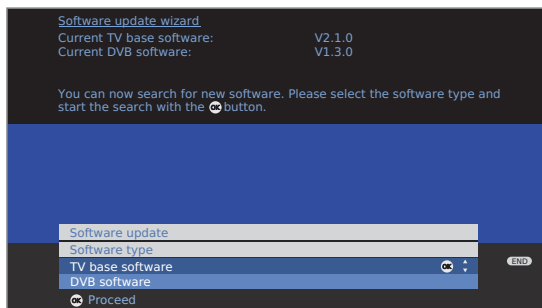
▲ ▼ Select software type:
Select **TV base software** or
DVB software,
OK start search.

If new versions are available then a subsequent screen message will be displayed.

Loading new software

➡ New software available via search.

➡ Ifa new TV and a new DVB software is available in the automatic search for new software versions via satellite [1], you can select the software type to be updated.
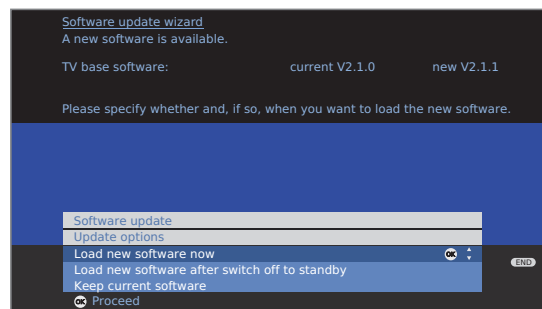
▲ ▼ Select update option:
Load new software now
Load new software after switch off to standby (update after switching off)
Keep current software (no update desired).

OK **more** or exit wizard.

OK start **software update**.

A bar is displayed to inform you about the progress of the load process. During the loading process do not switch off your device via the mains switch! This may last up to 20 minutes. You will be informed when it is finished.

At the end of loading:
Turn off the TV set off with the mains switch and turn it on again. This is not necessary when loading the software with the update option **Load new software after switch off to standby** mode.

If a new software has not been updated via satellite [1], you will be reminded of this several times when switching on the set.

Radio

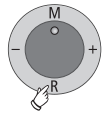## Radio mode

You can only receive radio stations via DVB.
If you do not have DVB radio reception then you can play audio from an external device via the TV set using the **audio/AV inputs**.

➡ For TV sets with MHEG-5 software, the buttons may be configured differently by the provider.
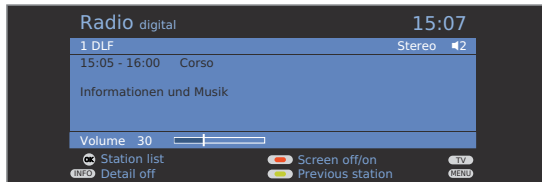
Radio mode on

RADIO button on the remote control.

Or:
R on the operating ring on the TV set.

Radio digital   15:07
1 DLF   Stereo   ◀2
15:05 - 16:00   Corso

Informationen und Musik

Volume 30
Station list   ● Screen off/on   TV
INFO Detail off   ● Previous station   MENU

You see and information window about the currently set station.

INFO   Minimise Radio dialog to an info line / maximise.

Radio digital   15:07
1 DLF   Stereo   ◀2 INFO

Station switching

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

Or:
+ / – on the TV set operating ring.

Or:
OK call the **station list / favourites**.

➡ Theselection of the stations / favorites is the same as the procedure in TV mode (see page 18 and 19).

Setting the volume

V+/V– Volume louder / quieter.

Other sound settings are the same as for the volume setting in TV mode (see page 20).

Setting the sound mode

Call **Sound mode**.
Other settings as for TV mode (see page 20).

Switching the screen on/off

Red button: Switch off the screen.

The **LED display** on the set changes from green to orange.

Switch on the screen with the remote control:
Red button, **OK button** or **RADIO button**.

Switch on the screen on the TV set:
Press **R** on the TV set operating ring.

Radio menu

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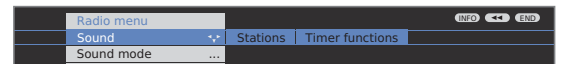The settings are made as described in TV mode.

Call radio menu

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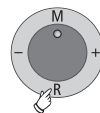if not, press the **RADIO button**.

MENU   Call the **Radio menu**.

Radio menu   INFO ◀◀ END
Sound   Stations Timer functions
Sound mode   ...

Switch off radio mode

TV button on the remote control.

or:
R on the operating ring on the TV set.

EPG – Electronic Programme Guide (radio)

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

Starting and ending EPG

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

EPG   Switching EPG on / off

➡ TheEPG functions in radio mode are the same as in TV mode. Read from page 30 onwards for further information.

Operating additional equipment

Device connection wizard

Connecting additional devices to the TV set

The device connection wizard serves to connect new devices to the TV set or make wiring changes.

➠ New devices should not be connected until they have been registered in the connection wizard.

(MENU) Call **TV menu**.
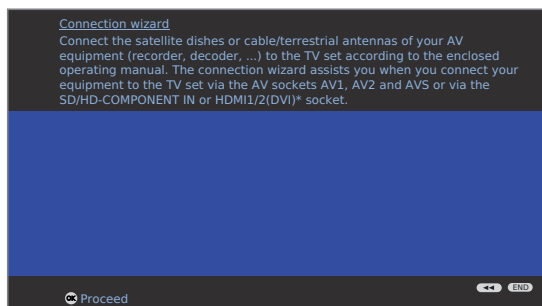
(OK)
◀ ▶ Select **Connections**,
▼ go to the menu line below.

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

(END) **END**: It is possible to run the wizard only partially at any time.
You have to confirm changes on a page with **OK**.

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

OK Proceed   ◀◀ END

Follow the instructions on the TV set.

The following illustrations provide an overview of the possible options.

Connection diagram

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

| DVD | DVD • | | | |
| AVS | AV1 | AV2 | COMP. IN | HDMI1 | HDMI2 |
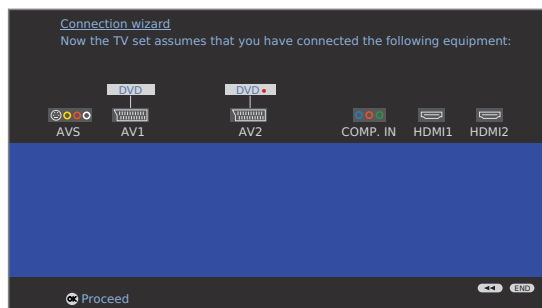
OK Proceed   ◀◀ END

The connection diagram shows the devices that are currently configured. DVD player on AV1 and DVD recorder on AV2 are factory pre-sets.
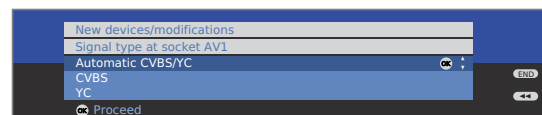
AV equipment selection

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

New devices/modifications
AV equipment selection
DVD	DVD player	☑
DVD •	DVD recorder	☑
VCR	Video recorder	
SAT	Satellite receiver	
STB	SetTopBox/dBox	
Decoder	Decoder	
Camera	Camcorder/camera	
AV	Other device(s) to AV1/2/S	
COMP.IN	Device to COMP.IN	
HDMI/DVI	Device to HDMI1/DVI	
HDMI/DVI	Device to HDMI2/DVI	

OK Proceed   Connect/disconnect   END   ◀◀

Yellow button: Place a check mark after the devices to be connected.

(OK) **OK Proceed**.

The connection plan is displayed again. Connect the devices to the back of the TV set (in this example the DVD player (**DVD**) to **AV1**, the DVD recorder (**DVD•**) to **AV2**).

Signal type

New devices/modifications
Signal type at socket AV1
Automatic CVBS/YC   OK
CVBS   END
YC   ◀◀
OK Proceed

Select the signal type of your set. Leave the setting on automatic if you are not sure.

Connection example of a DVD recorder

TV set

ANT2

AV2

AUDIO digital In

DVD recorder

TV

R
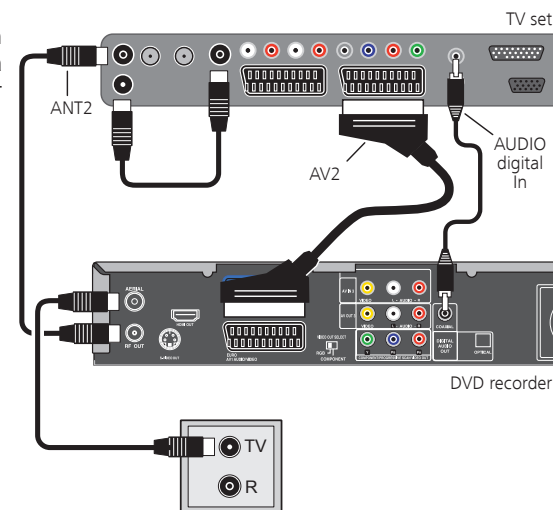
➠ Use EURO-AV cable with angled plugs.

Operating additional equipment

Explanations of important settings

Signal type   The signal type of the devices that can be connected can vary greatly. If you are not sure, leave the setting for **Signal** on **Automamtic CVBS/YC** (e.g. for DVD Player/Recorder) or **Autom.-VHS/SVHS** (e.g. video recorder), otherwise select the right signal type. See the glossary on page 59 for further information.

Immediate playback   If the picture from a connected device is to be displayed immediately on the TV set during playback, select **yes**. A switching voltage is allowed so that you do not have to switch over manually to see the picture of the connected device. (See the operating manual of the connected reproduction device.)
When playing from Digital Link Plus devices, the picture is always displayed immediately, regardless of the setting.

Assign digital audio input   Select the AV socket to which the device of which you want to hear the digital sound is connected. Connect the digital output of the external device to the digital input of the TV set (see page 47). If a device with digital audio is not connected then select **no**.

Connection possibilities for a DVD/video recorder

There are two possibilities for viewing the picture of the connected recorder:

1. Use appropriate cables in conjunction with the connections assigned by the connection wizard. This always offers the best quality and the greatest convenience, such as automatic switch over when playing from a connected device.

2. You are using the antenna connection between recorder and TV device. However this reduces the quality.

Connecting antenna to the DVD/video recorder

If you want to receive and record analogue stations, it is useful to loop the recorder into the antenna cable; as shown in the connection example on page 37 bottom right.
If the antenna connection is also used for the playback because the devicers are not connected by EURO-AV cables, you have to search for the recorder station and save it in the TV set.

Proceed as follows (see also the operating manual of the connected recorder):

➠ Insert a DVD/cassette and press play.

0 AV   Call **AV selection**.

◀ ▶ Select **VIDEO**,
OK to switch over.

If no picture is visible on the TV screen when playing the recorder, search for the recorder station automatically or set it manually.

To make sure no "normal" TV stations are found in the station search, pull the antenna plug out of the recorder antenna input temporarily (the cable to the antenna system).

Manual recorder station search:

➠ **VIDEO** is selected by the **AV selection**.

MENU   Call **TV menu**.

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

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

◀ ▶ Select **Manual adjustment**,
OK to call other settings.

For **Channel** enter "**E30**".

Blue button: Start search.

When you have found the recorder station:

Red button: Overwrite station slot.

END   Exit **TV menu**.

Re-connect the antenna plug that you temporarily unplugged.

If disturbances should now occur because a TV station is being broadcast on the same channel as the station of the recorder, then you must change the transmission channel on the recorder and scan for the recorder again on the TV set.

Operating additional equipment

Connecting devices to the HDMI (DVI) connections and playback

HDTV HIGH DEFINITION TELEVISION — The HDMI connections (High Definition Multimedia Interface) permit digital video and audio transmission via a connection cable from a player, e.g. from the Loewe ViewVision DVD recorder.

The digital picture and sound data are transmitted without data compression and therefore lose none of their quality.

Your TV set automatically shows 24p movies (see glossary page 59) output by a player connected via HDMI, e.g. Loewe BluTech Vision, in the original 24p format. Film quality improvement (DMM) must be set to **on** here (see page 21).

Using a DVI/HDMI adapter cable, the digital video signals of a DVI player can also be played via the compatible HDMI connection. The sound must be fed in additionally.

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

Connecting the device

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

If a DVI/HDMI adapter cable is used, the appropriate sound can be fed in via the audio input socket **AUDIO IN1** (analogue) or **AUDIO DIGITAL IN** (digital) on the TV set. See also page 47.

It is not necessary to log in HDMI devices in the connection wizard.

Playback from the device

0 AV — Call **AV selection**.

VGA	HDMI1/DVI	OK ◀▶	HDMI2/DVI	COMP. IN	▮ VIDEO	VCR	DVD

(AV selection)

OK — ◀ ▶ Select **HDMI1/DVI** or **HDMI2/DVI** socket, **OK** to switch over.

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

Digital Link HD in appropriately equipped HDMI devices

As long as HDMI is selected as a memory location, all remote control commands which the connected HDMI unit can handle are passed on to it. Volume, Sound on/off, Sound adaptation and Picture format affect the operation of the TV set. The HDMI unit can therefore be installed in a concealed position and still be operated.

Switch back to TV mode to the station last viewed with the **TV button**.
Switch Digital Link HD on/off temporarily: Press the **TV button** for a little longer (approx. 1 second).

TV remote switch on via HDMI

In the TV menu under **Connections → Miscellaneous → Remote TV switch on via HDMI** you can define that the TV set switches on automatically from standby when a connected HDMI device displays a menu or a disk is inserted.

Connecting devices to the PC IN connection and playback

HDTV HIGH DEFINITION TELEVISION — You can connect a PC or a SetTopBox (STB) to the **PC IN** socket and thus use the screen of the TV set as an output device.

➡ When connecting the TV set to a PC, first set your PC to one of the following screen resolutions:

800 x 600	**60 Hz** (SVGA)	**1024 x 768 60 Hz**	(XGA)
1280 x 1024	**60 Hz** (SXGA)	**1360 x 768 60 Hz**	(WXGA)

➡ When connecting a SetTopBox set the following screen resolutions according to the possibilities of the SetTopBox:

SDTV:	**720 x 576i**	**720 x 480i**
	720 x 576p	**720 x 480p**
HDTV:	**1280 x 720p**	**1920 x 1080i**

Connecting the device

Connect the device to the **PC IN** socket of the TV set via the VGA cable. See page 40 for the sound connection.

Registration in the connection wizard is not necessary.

Playback from the device

0 AV — Call **AV selection**.

AVS	PC IN	OK ◀▶	HDMI1/DVI	HDMI2/DVI	COMP. IN	▮	VIDEO

(AV selection)

OK — ◀ ▶ Select **PC IN** socket, **OK** to switch over.

Adapting the geometry (only possible with certain signals)

This is where the picture can be properly positioned and the position of the picture (horizontal and vertical) can be moved so that it fills the entire screen.

MENU — Call **TV menu**.

OK — ◀ ▶ Selecting and adjusting the **Geometry**.

Setting the colour standard (only possible with certain signals)

MENU — Call **TV menu**.

OK — ◀ ▶ Select **Picture**,
▼ go to the menu line below.
◀ ▶ Select and set **colour standard**:
for PCs: **RGB**,
für STB: **Ycc** (rare: **Ypp** or **RGB**)

If the wrong standard is set then the colours will not be displayed correctly.

Operating additional equipment

Connecting the audio signal from the PC or from the SetTopBox

Analogue audio signal:

Connect the analogue audio signal from the PC or the SetTopBox via stereo cable to the **AUDIO IN2** jack on the TV set.

The sound is played via the speakers connected to the TV set or a speaker system.

Digital audio signal:

➠ An external digital audio signal can be reproduced via the integrated Dolby Digital Decoder or via an externally connected digital audio amplifier.

Connect the digital audio signal from the PC or the SetTop-Box via a simple cinch cable to the **AUDIO DIGITAL IN** socket on the TV set.

The digital audio input can be assigned to the PC IN socket by the **TV menu → Connections → Miscellaneous → Assign digital audio input**, see page 47.

For an external digital audio amplifier:

➠ External audio amplifier is already set in the sound components wizard (see page 46).

Feed the digital audio signal of the **AUDIO DIGITAL OUT** socket on the TV set to the external amplifier.

Connecting devices to the Component IN connection and playback

HDTV HIGH DEFINITION TELEVISION DVD players/recorders with component video connections can also be connected to the **Cb/Pb Cr/Pr Y** sockets (**SD/HD-COMPONENT**) of the TV set instead of to the EURO AV sockets.

The connecting cable with three cinch plugs transmits the picture information in better quality than is transmitted by a EURO AV cable. You need an additional cable for audio transmission.

Connecting the device

Connect the component video outputs of the external device via a triple cinch cable to the **Cb/Pb Cr/Pr Y** sockets on the TV set.

Connect the analogue audio outputs of the external device to the **AUDIO IN1 L/R** sockets on the TV set.

The sound is played over the speakers of the TV set or over a speaker system.

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

[MENU] Call **TV menu**.

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

◀ ▶ Select **New devices/modifications**.

OK calls the wizard.

OK Go to the **AV equipment selection** menu.
▲ ▼ Select device at **COMP.IN**.

[buttons] **Yellow button:** Activate **COMP. IN**.

In an analogue audio connection, the sound is automatically played over the speakers of the TV set or over a speaker system.

A digital audio signal must be assigned via the **TV menu → Connections → Miscellaneous → Assign digital audio input** to the COMP. IN socket, see page 47.

Playback from the device

[0 AV] Call **AV selection**.

AV selection							
HDMI2/DVI	COMP. IN	OK ◀ ▶	VIDEO	VCR	DVD	AVS	PC IN	HDMI

[OK] ◀ ▶ Select **COMP. IN** socket,
OK to switch over.

Adapting the geometry (only possible with certain signals)

This is where the picture can be properly positioned and the position of the picture (horizontal and vertical) can be moved so that it fills the entire screen.

[MENU] Call **TV menu**.

[OK] ◀ ▶ Select and adapt the **Geometry**.

Operating additional equipment

Sound components wizard

The sound components wizard helps you to configure the components used to play the TV sound.
Depending on what you want to use, active speakers, speaker systems, Loewe Sound Projector and analogue and digital HiFi/AV amplifiers can be configured.

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

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

Integrated Dolby Digital Decoder

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

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

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

DVDs or CDs with PCM coded audio format are also decoded by the Dolby Digital Decoder. The CD/DVD player must be connected via a coaxial, digital connection to the digital input **AUDIO DIGITAL IN** for this (see page 47).

The audio signals decoded by the Dolby Digital Decoder are output via the **AUDIO LINK** interface. You can connect a speaker system such as the Loewe "Individual Sound" (see page 42) or active speakers (see page 43) to the **AUDIO LINK** interface and configure these with the **sound components wizard**.

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

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

Operating additional equipment

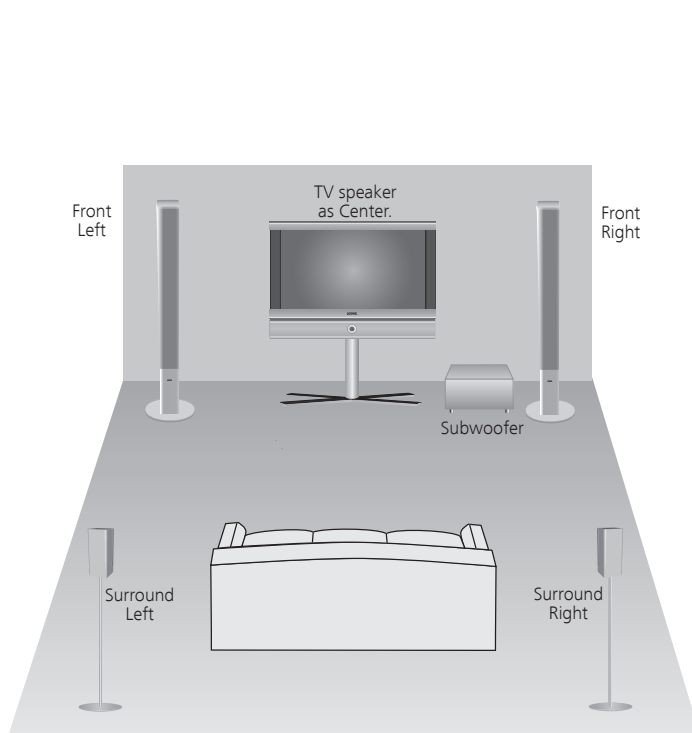## Speaker system Loewe Individual Sound on the Dolby Digital Decoder of the TV set

Setup

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

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

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

The TV speakers are used as center speakers.

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

Connecting

Switch off all devices before connecting.

Subwoofer **without AUDIO LINK** interface (cable represented by grey, dotted line):

Plug the adapter cable to the **AUDIO LINK** interface of the TV set. Connect the cinch connections of the adapter cable to the 6-pin cinch connections of the subwoofer. Use the 6-pole cinch cable provided with the subwoofer for this.

The cubic plug cable connects the master connection on the subwoofer to the cubic plug of the adapter cable.

The adapter and cubic plug cable are available from your dealer (see Accessories, page 58).

Subwoofer **with AUDIO LINK** interface:

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

Setup example for Loewe Individual Sound
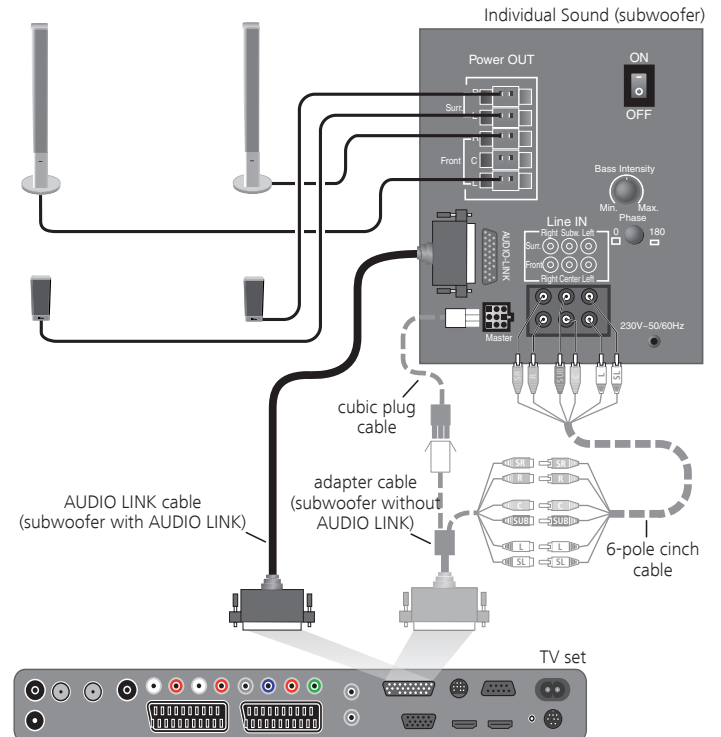
Connecting Loewe Individual Sound (Subwoofer) to the TV set

Operating additional equipment

Connecting other speaker systems or active speakers to the Dolby Digital Decoder

If you want to use another similar speaker system or active speakers, you can connect these to the **AUDIO LINK** interface of the TV set with an adapter cable.

A comparable speaker system is connected in a similar way to that described above for "subwoofer **without AUDIO LINK** interface".

The adapter cable is available from your dealer (see Accessories, page 58).

Connecting active speakers

Switch off all devices before connecting.

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

The cinch connections of the adapter cable are labelled:

R	for Front right	**SR**	for Surround right
L	for Front left	**SL**	for Surround left
C	for Center	**SUB**	for Subwoofer

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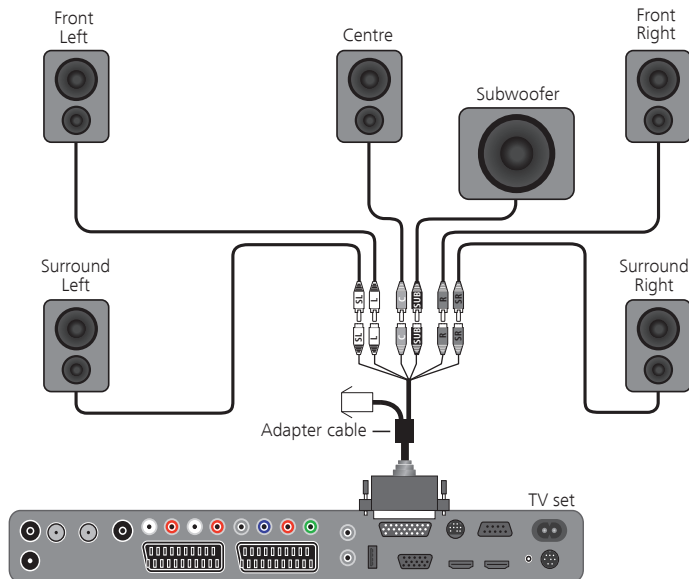
Connection of active speakers to the TV set

Adjusting the speaker system

Calling the sound components wizard

➠ In normal TV mode, without other displays.

(MENU) Call **TV menu**.

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

◀ ▶ Select **Sound components**,
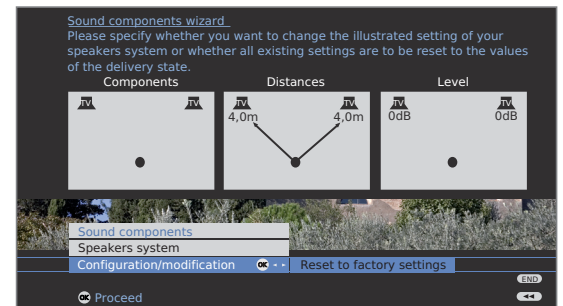**OK** calls the sound components wizard.
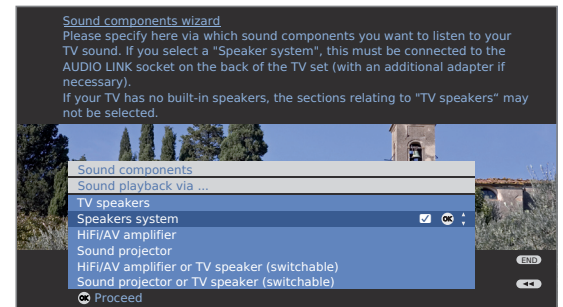
Sound playback via ... speakers system

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

▼ ▲ Mark **Speakers system**,

OK to continue.

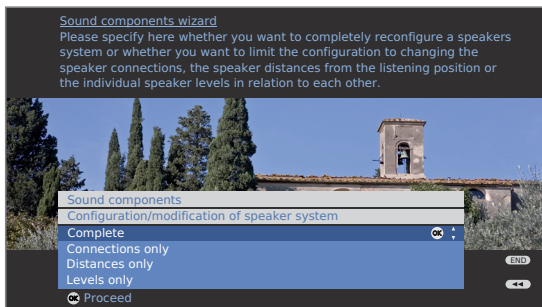If nothing has been set yet, the factory settings or otherwise the last set values are displayed.
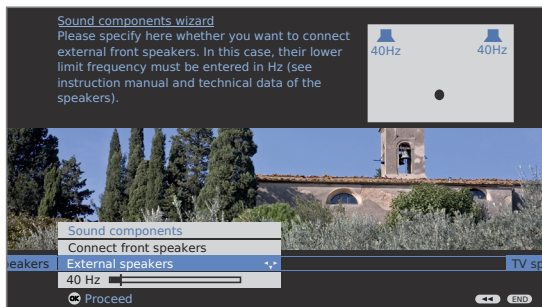
Operating additional equipment
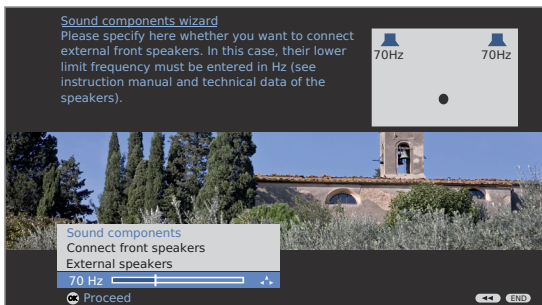
If you want to set up or change a speaker system:

◀ ▶ Select **Configuration/modification**,

OK call selection.

Sound components wizard
Please specify here whether you want to completely reconfigure a speakers system or whether you want to limit the configuration to changing the speaker connections, the speaker distances from the listening position or the individual speaker levels in relation to each other.

Sound components
Configuration/modification of speaker system
Complete
Connections only
Distances only
Levels only
Proceed

▼ ▲ Select **Complete**,

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

Sound components wizard
Please specify here whether you want to connect external front speakers. In this case, their lower limit frequency must be entered in Hz (see instruction manual and technical data of the speakers).
40Hz 40Hz

Sound components
Connect front speakers
External speakers
40 Hz
Proceed

◀ ▶ Select **External speakers**,

▼ go to the menu line below and

◀ ▶ set the **lower limit frequency** of the front speakers in 10 Hz steps.

Sound components wizard
Please specify here whether you want to connect external front speakers. In this case, their lower limit frequency must be entered in Hz (see instruction manual and technical data of the speakers).
70Hz 70Hz

Sound components
Connect front speakers
External speakers
70 Hz
Proceed

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

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

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

◀ ▶ Select **yes** for external speakers.

➟ If no surround speakers are connected, these can be simulated using the front and centre speakers.

▼ Go to the menu line below and

◀ ▶ set the **lower limit frequency** of the surround speakers in 10 Hz steps.

➟ Select the start value of the frequency response of the speakers for the right setting.

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

◀ ▶ Select whether the **TV speakers** or an **External speaker** is to reproduce the centre sound or **no** if no centre speaker is connected.

➟ If no centre speaker is connected, the front speakers also transmit the centre sound parts additionally.

▼ for **External speakers** or **TV speakers** go to the menu line below and

◀ ▶ set the **lower limit frequency** of the centre speaker in 10 Hz steps.

➟ Select the start value of the frequency response of the speakers for the right setting. For the TV speakers you will find the value under "Technical data".

OK continue to connect the **Subwoofer**.

◀ ▶ **yes** is the selection for subwoofer.

➟ If no subwoofer is connected, the front speakers also transmit the sound parts intended for the subwoofer as far as possible additionally.
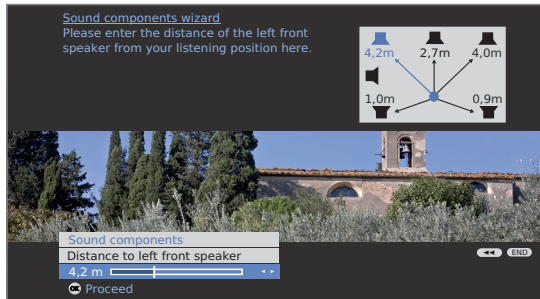
Operating additional equipment

OK continue to set the
Distance to left front speaker.

➡ Measurethe distances from your listening position to the front, surround, and centre speakers respectively. The Dolby Digital Decoder calculates the delay times for the speaker signals from these so that they reach the listener simultaneously.
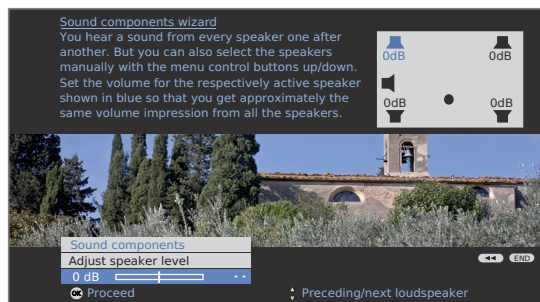
◀ ▶ Set the distance between the left front speaker and your listening position in 10 cm steps.

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

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

OK continue to **Adjust speaker level**.

◀ ▶ Adjust the volume for each speaker.

▼ ▲ Select speakers manually.

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

OK continue to **Subwoofer phase**.
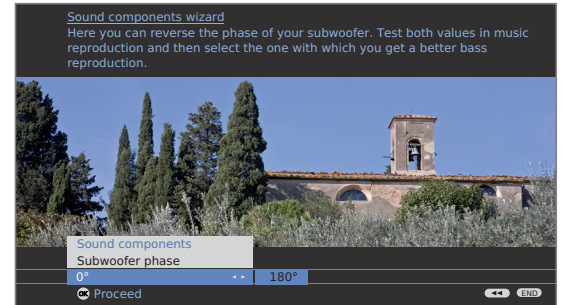
Switch to a station with music with **P+/P–** or start playback with music on a DVD player.

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

OK to confirm the setting and exit the wizard.

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

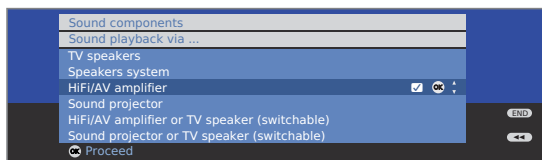# Operating additional equipment

Connecting audio amplifiers

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

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**.

Sound components
Sound playback via ...
TV speakers
Speakers system
HiFi/AV amplifier
Sound projector
HiFi/AV amplifier or TV speaker (switchable)
Sound projector or TV speaker (switchable)
Proceed

OK to continue.

◀ ▶ Select whether the sound is to be transmitted digitally or analogue to the the amplifier.

Continue, depending on the amplifier, see right column.

Explanations of the setting possibilities:

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

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

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

Type of amplifier — Select either stereo or surround amplifier.

TV loudsp. as centre speaker — For every connected surround amplifier, select whether the TV loudspeakers are to be used as centre speaker.

If so, establish a connection between the centre output of the amplifier and the centre input of the TV set **AUDIO IN1 C** with a cinch cable.

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

Connecting digital audio amplifiers

Continuation of the left column above ...

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

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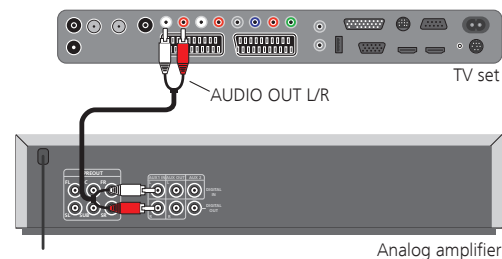

AUDIO DIGITAL OUT   TV set
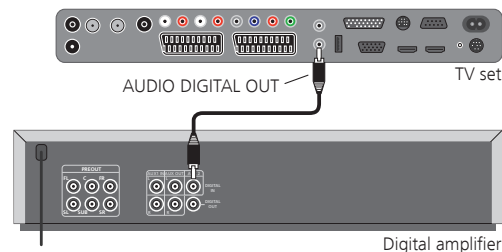
Digital amplifier

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

Connecting analogue audio amplifiers

Continuation of the left column above ...

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

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

                                     TV set
AUDIO OUT L/R

Analog amplifier

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

Operating additional equipment

Assignment of the digital audio input

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

Connecting devices to the digital audio input

For the digital audio playback from an external device, e.g. the DVD player, you have to feed the digital audio signal to the TV set.
The external digital audio signal can be played back via the integrated retrofittable Dolby Digital Decoder in the TV set, via an externally connected digital audio amplifier or Loewe Auro.
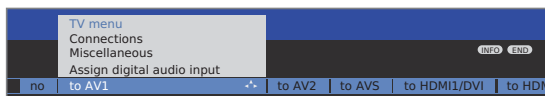
> ➟ If an external audio amplifier is used, this must be registered in the sound components wizard (see page 46).

(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**.

TV menu					
Connections				INFO	END
Miscellaneous					
Assign digital audio input					
no	to AV1	◆	to AV2	to AVS	to HDMI1/DVI	to HDM

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.

TV set
AUDIO DIGITAL IN
AV1
DVD player
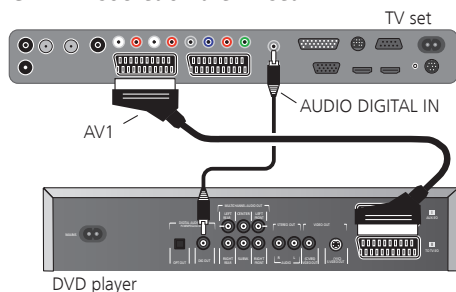
The DVD player is already registered at AV1 in the connection wizard at the factory.

If new devices are connected and registered in the connection wizard, the digital audio input **AUDIO DIGITAL IN** is assigned in the connection wizard (see page 38).

Audio connection in HDMI (DVI) devices

External devices with DVI connection

If an external device with DVI interface is connected via a HDMI/DVI adapter to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, you can connect the digital sound of the external device to the digital audio input socket **AUDIO DIGITAL IN**.
The assignment of the digital audio input to the corresponding HDMI socket of the TV set takes place as described in the column on the left.

If you want to use the analogue sound of the external devices, connect it to the **AUDIO IN2** socket.

External devices with HDMI connection

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

RS-232C interface

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

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

Operating additional equipment

The direct way to record

You can programme timer recordings via the integrated Digital Recorder or connected recorders on the TV set. The recording wizard is integrated at several places for programming a recording. Further information about recording with the Digital Recorder can be found in a separate operating manual.

Programming a timer recording with the EPG

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

```
         EPG (Electronic Programme Guide)        Mon 31.07./16:05
  Date   Mon 31.07
  Time   now                ‹·›  soon │ 17:00 │ 18:00 │ 19:00 │ 2
Stations all
  Topics all
         15:57-16:59 arte         Charmed - Zauberhafte Hexen  OK ⁝
         16:00-16:10 Das Erste    Tagesschau
         16:00-16:10 ZDF          heute - in Europa
         16:00-16:15 WDR Köln     WDR aktuell
         16:00-16:05 Bayerisches... Rundschau
         16:00-16:30 hr-fernsehen  Schlemmerreise Spanien
         16:00-16:15 MDR FERNS...  Hier ab vier
         16:00-16:30 NDR FS HH     Tipps und Trends - Der Verbraucher...
         16:00-16:05 SWR Fernse... Baden-Württemberg aktuell
 2 ZDF   Charmed - Zauberhafte Hexen ◫
 TEXT Detail              OK View           Record            END
 ⇅ Page ↑↓       0-9 Select time        Select date, ... , topics  MENU
```

▼ ▲ Mark the desired programme.

Red button: Call **Timer data**.

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

Programming a timer recording via teletext

➠ You are in Teletext mode; if not, press the **TEXT button**.

```
 301  302   ARDtext      Do  14. 09. 06    09 : 36 : 42
                         Do  14. 09. 06    Das Erste
 14.00      Tagesschau
 14.10      In aller Freundschaft UT . . . . . . . . . .  316
            Zweite Begegnung (D, 2005)
 15.00      Tagesschau
 15.10      Sturm der Liebe (221) . . . . . . . . . .  317
 16.00      Tagesschau UT
 16.10      Eisbär, Affe & Co. . . . . . . . . . . . . . .  318
 17.00      Tagesschau um fünf UT
 17.15      Brisant . . . . . . . . . . . . . . . . . . . . .  319
 17.47      Tagesschau
 17.55      Verbotene Liebe . . . . . . . . . . . . . . .  320
 18.20      Marienhof . . . . . . . . . . . . . . . . . . .  321
 18.50      Das Geheimnis meines . . . . . . . . . . .  322
            Vaters (19)
 19.20      Das Quiz mit Jörg Pilawa . . . . . . . . . .  384
            bis 19.50 Uhr
 300 <<                                     Abend > 303
   —   │     +      │ Jetzt im TV │    ARD morgen
          ⁝ Select programme       OK  Record
```

Call the programme pages of the current station.
Change preset page numbers, see page 33.
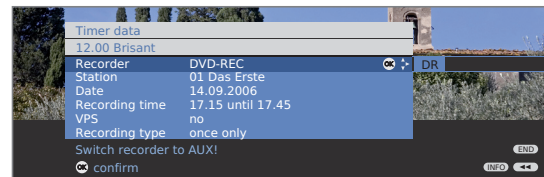
Green button: Go to the appropriate page.

▼ ▲ Select desired broadcast,
OK calls **Timer data**.

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

Enter timer data

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

```
 Timer data
 12.00 Brisant
 Recorder         DVD-REC          OK ⁝⁝  DR
 Station          01 Das Erste
 Date             14.09.2006
 Recording time   17.15 until 17.45
 VPS              no
 Recording type   once only
 Switch recorder to AUX!                       END
 OK confirm                               INFO  ◄◄
```

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

◄ ► Select **Recorder**.

▲ ▼ Select **Date**.
Enter the recording date with the **numeric buttons**.

▲ ▼ Select **Recording time**.
Enter the recording time with the **numeric buttons**.

▲ ▼ Select **VPS**.
◄ ► Set **yes/no**.

▲ ▼ Select **Recording type**.
◄ ► Set **once**, **Mon-Fri**, **daily**, **weekly**.

OK confirm the **Timer data**.

Setting possibilities in the Timer data menu:

Recorder	Selection of the connected/integrated recorder.
Date	Day of recording.
Recording time	Time of recording.
VPS	Use VPS data, **yes/no**. (Some stations do not broadcast a VPS signal).
Recording type	**once**, **Mon–Fri**, **daily** or **weekly**. In timer recordings via EPG, **Serial** can also be selected.

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

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

Operating additional equipment

Programming the timer with the timer overview

A timer recording can also be programmed manually.

🕐 Call **Timer list**.

You see a list of all previously programmed timers:

Timer list				Mon 31.07/11:28
Mon 14.09.	17:15-17:45	Das Erste	Brisant	
Wed 16.09.	14:00-15:50	ZDF	Biathlon-Weltcup	
Thu 22.09.	20:15-22:25	3sat	wissen spezial	

🔴 New recording	🟢 Change	END
	🟡 Delete	INFO

🔴 🟢 🟡 🔵 **Green button:** Change timer recording.

Yellow button: Delete timer recording.

Red button: New timer recording.

Programming the timer manually

➠ The timer list is open.

🔴 🟢 🟡 🔵 **Red button:** Call the **recording wizard**.

Recording wizard		INFO ◀◀ END
Via EPG	OK ◀ ▶ Via teletext	Manual
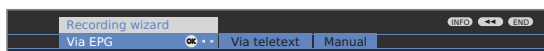
(OK) ◀ ▶ Select **Manual**,
OK call **Station selection**.

◀ ▶ ▲ ▼ Select station.
OK calls the **Timer data**.

For time data input, see page 48.

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

Explanation of the setting possibilities of the recording wizard:

Via EPG Timer programming via EPG (see Programming a timer recording with the EPG, page 48).

Via Teletext Timer programming via Teletext (see Programming a timer recording via Teletext, page 48).

Manual Programming timer manually (see above).

Timer recording with external devices

➠ It is not possible to record HDTV broadcasts with external devices. Use the internal digital recorder for this.

Recorder with Digital Link Plus

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

Analogue stations

The timer data are transmitted automatically from the TV set to the recorder after programming is complete. (For DVD recorders in addition the recording quality SQ or EQ is also transmitted.)
The recording then is controlled by the recorder and the recorder tuner is used for reception of the programme.
The recording data are not saved in the timer overview of the TV set. Consequently if you want to change or delete the timer data then you must do so on the recorder.

Digital stations

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

Recorder without Digital Link Plus

If the programmed timer cannot be transmitted to the external recorder (no Digital Link Plus) but supports Digital Link (Loewe-own system), the TV receiver is always used.
Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder.
In addition use only Euro AV cables for the connection between TV set and recorder.

Analogue and digital stations

You can control the recording from the TV set. The recorder must be set manually to the AV input, to which the TV device is connected. Then the station on the TV set is locked during the timer recording. It is not possible to switch over to another station.

Copy protection

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

Operating additional equipment

PhotoViewer

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

Connecting

➡ CertainUSB memory media may not be supported by this set under some circumstances.

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

Use a USB extension cable (available from your dealer) for the USB stick if the USB socket is difficult to access (e.g. wall mounting) or the USB stick is too big to be plugged in.

Starting the PhotoViewer

➡ Nophotos can be displayed which are available in progressive JPEG format.

A memory card or the USB stick should contain data in standard JPEG format with the file extension ".jpg".
PhotoViewer mode starts automatically when a memory card is inserted in the card reader, or when a USB stick is inserted. You see the first page of the photo overview (see right column).

If several memory media are available, you can select the desired medium in the PhotoViewer menu with the **Select memory medium** item (see page 51).

If a memory medium is already connected to a USB socket of the TV set, start the PhotoViewer as follows:

ASSIST	Call the **Assist+** menu.
(OK)	▲ ▼ Mark **PhotoViewer**. **OK** continue.
	If only one memory medium is available, the **PhotoViewer** is started. If several media are available, select with
(OK)	◄ ► Medium and then start with **OK** start **PhotoViewer**.

Ending the PhotoViewer

Pull out the used memory medium.

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

Viewing photos

➡ The photo overview is displayed.
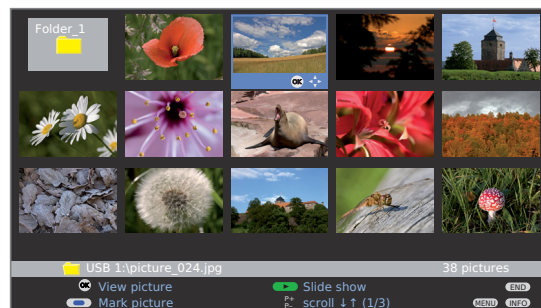
(OK)	▲ ▼ ◄ ► Mark a photo, page with **P+/P–** if necessary. **OK** Display as full picture.

|	
►►	►► or **P+** next photo.
◄◄	◄◄ or **P–** previous photo.
END	**END:** Show/hide photo information.
(buttons)	**Yellow button:** Zoom photo. Enlargement factors x2, x4, and x8 are possible. Press the button several times. The 4th press returns you to the original size.
(OK) ■	Select photo section in zoom mode with ▲ ▼ ◄ ►. Exit the zoom mode to the photo overview with **OK** or the **STOP** button.
(○)	◄ ► Rotate picture by 90 degrees to the left/right.
	➡ Photosdisplayed in a slide show can only be rotated in the Pause mode for viewing.
(OK) ■	**OK** or **STOP** button: Back to the Photo Overview.

Operating additional equipment

Open folder

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

▲ ▼ ◄ ► Mark a folder in the photo overview.
OK Open folder.

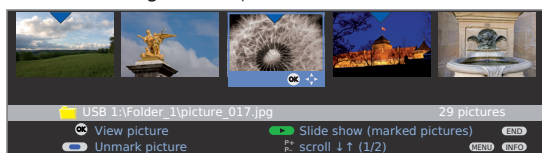The photos in this folder are displayed.
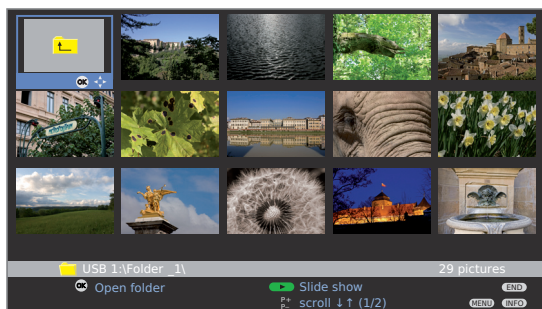
Marking photos for slide show

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

▲ ► ▼ ◄ Navigate to a photo.

Blue button: marks photo for slide show.

Starting a slide show

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

Play button: Start / continue slide show.

OK calls the photo overview.

Pause button: Pause / continue the slide show.

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

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

►► or **P+** next photo.

◄◄ or **P–** previous photo.

STOP button: End slide show.

Calling the PhotoViewer menu

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

➠ The photo overview is displayed.

MENU Call the **PhotoViewer menu**.

Explanations of the setting possibilities

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

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

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

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

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

Picture settings Set picture adjustment, contrast, colour intensity, colour temperature, brightness, sharpness, DNC.

Select memory medium Select memory medium from which the photos are to be reproduced. This menu item is only displayed if at least two memory media are available.

Operating additional equipment

Operating Loewe equipment

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

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

Using the remote control for a recorder

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

Using the remote control for a DVD player

DVD   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

RADIO   Press the **Radio** 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 – RADIO). This allows you to check which operating mode the remote control is set to every time you press a button.

Setting the remote control to other Loewe devices

The specified button combination must be kept pressed (for approx. 5 s) until one of the LEDs flashes twice.

Device	Button combination
Loewe TV	TV + 7 pqrs ✳
Loewe Centros 1102 / 1172	REC + 1
Loewe Centros 2102 HD / ViewVision	REC + 2 abc ✳
Loewe ViewVision DR+ / DVB-T	REC + 3 def
Loewe ViewVision 8106 H	REC + 0 AV
Loewe Auro 2216 PS / 8116 DT	DVD + 4 ghi ✳
Loewe Xemix 6222 PS	DVD + 5 jkl

The devices marked by ✳ are preset in the remote control supplied with the TV set.
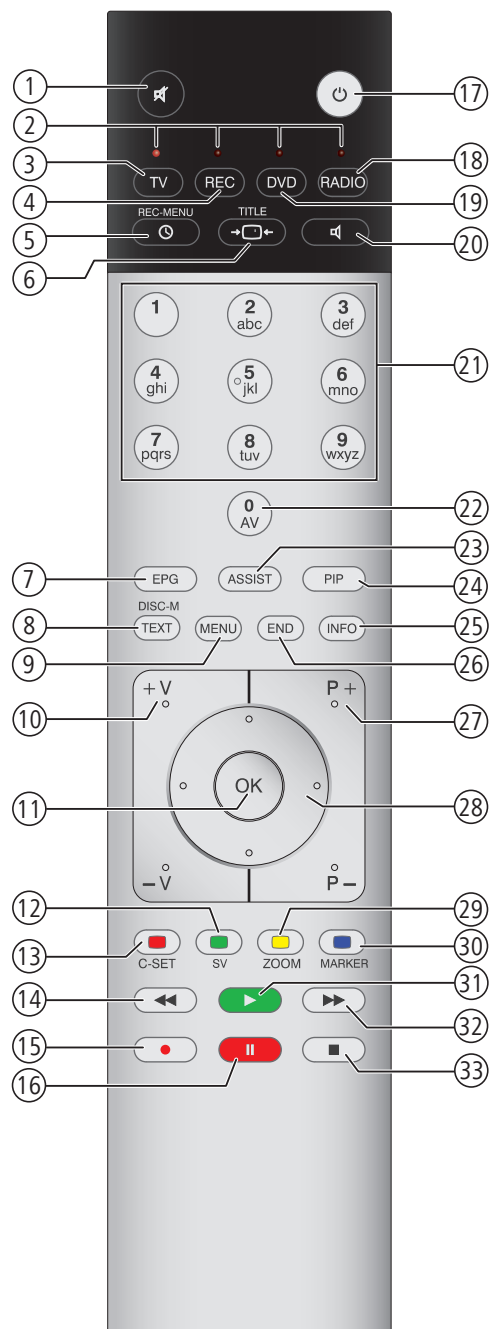
Operating additional equipment

Functions for the Loewe DVD player (Auro 2216 PS, 8116 DT)

1. Sound off/on
2. LED indicator for current operating mode
3. Switch over to operate TV set
4. Switch over to operate Recorder
5. Sleep timer
6. Set TV picture format; RADIO: Mono/Stereo
7. DISC: Repeat; RADIO: display RDS name/frequency of station
8. DISC: User interface of loaded DVD
9. Show/hide menu; MENU: close window
10. **V–/V+** Volume down/up
11. DISC: Title/Chapter overview; RADIO: station table
    MENU: confirm menu selection
12. Green button: Title/Chapter selection
13. Red button: DISC: camera position
14. DISC: short: beginning of chapter/title previous chapter;
    long: search back;
    RADIO: short: fine tuning back long: search back
15. no function
16. Pause; single frame; slow motion
17. Switch on/off - on stand by
18. short: TV Radio Digital; long: Auro FM/AM-Radio
19. Switch over to operate Auro
20. Select sound format
21. DISC: select chapter/title RADIO: select stored station;
    MENU: enter digits
22. MENU: enter numbers or letters
23. DISC: Repeat A-B; RADIO: FM/AM-mode
24. Select external audio source
25. DISC: menu bar
    MENU: context help
26. DISC: Status display; RADIO: station table
    MENU: hide menu
27. **P+/P–** DISC: next/previous chapter; RADIO: station forward/back
28. ▲ ▼ DISC: chapter up/down; MENU: select up/down;
    ◀ ▶ DISC: search back/forward; MENU: select left/rigt
29. Yellow button: Zoom
30. Blue button: Set marker
31. Playback
32. DISC: short: next chapter/title; long: search forward
    RADIO: short: fine tuning forward; long: search forward
33. Stop

Functions for the Loewe DVD recorder (Centros 1202, 2102 HD, ViewVision DR+)

1. TV Sound off/on
2. LED indicator for current operating mode
3. Switch over to operate TV set
4. Switch over to operate Recorder
5. Timer recording menu; timer recording list menu
6. STOP: Title List; PLAY: Edit thumbnail;
   CARD: Photo-, Music-, Film-Mode
   ViewVision DR+: Timeshift Mode
7. STOP: Call AV selection (AV1-AV4,DV,TV)
   ViewVision DR+: PLAY: skip 15 Sec.
8. User interface of loaded DVD
   MENU: original / playlist
9. Show/hide menu
10. **V–/V+** TV Volume down/up
11. Status display (TV, DVD)
    MENU: confirm the menu selection
12. Green button: ShowView menu
13. Red button: new chapter marker
14. PLAY: press short: Start of current chapter/previous chapter;
    press long: search back; PAUSE: press short: slow motion back
15. Record
16. Pause /single frame
17. Switch on/off - on stand by
18. TV Radio Digital
19. Switch over to operate DVD-Player
20. TV Sound menu
21. STOP: Select station directly
    MENU: enter numbers or letters
22. MENU: enter numbers or letters
    ViewVision DR+: STOPP: Call AV selection
23. Card Reader operation
    ViewVision DR+: „Home" menu
24. PIP (picture in picture)
25. Info; PLAY: menu bar
26. MENU: hide menu
27. **P+/P–** PLAY: Next chapter; STOP: Select station up/down
28. MENU: select/set
29. Yellow button: Zoom
30. Blue button: DISC: short: Set marker; long: Marker search
31. Playback
32. PLAY: Press short: next chapter; Press long: search forward
    PAUSE: Press short: slow motion forward
33. Stop

Operating additional equipment

Rotating the TV set

Your TV set has a connection for a rotating stand control. If the set is mounted on a motorised Loewe stand, you can use the remote control to adjust it to your seating location accordingly.

➠ A motor unit is connected.

➠ In normal TV mode, without other displays.

◀ ▶ Rotate the TV set.

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

Setting the range of rotation

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

MENU Call **TV menu**.

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

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

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

◀ ▶ Select **Basic adjustment**,
OK calls the basic adjustment.

> Rotate TV
> Basic adjustment (right)
> 21 ◀◀ END
> OK Proceed

▶ **Basic adjustment (right)**
Turn your TV set as far to the right as the installation position of your set allows. This will be the maximum right rotation position in future.

OK confirms basic adjustment to right.

> Rotate TV
> Basic adjustment (left)
> -30 ◀◀ END
> OK End of basic adjustment
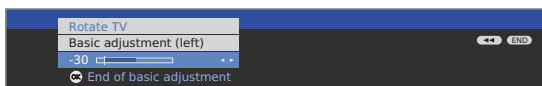
◀ **Basic adjustment (left)**
Turn your TV set as far to the left as the installation position of your set allows. This will be the maximum left rotation position in future.

OK ends the basic adjustment.

END Close the menu.

Specifying the switch off position

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

MENU Call **TV menu**.

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

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

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

◀ ▶ Select **Set switch-off position**,
OK calls Set switch-off position.

> TV menu
> Settings
> Miscellaneous
> Rotate TV
> Set switch-off position
> 0 INFO END
> OK Adopt

◀ ▶ Set desired switch-off position.
The TV set rotates in the process.

OK Save the set position as the switch-off position.

END Close the menu.

Activating the switch-off position

MENU Call **TV menu**.

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

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

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

◀ ▶ Select **Activate switch-off position**,
▼ go to the menu line below.

◀ ▶ Select **yes**.

END Close the menu.

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

Troubleshooting

Problem	Possible cause	Remedy
All menus are displayed in the **wrong language**.	The menu language was set incorrectly.	**Set the menu language:** Press the **INFO button** in TV mode (**Index**). Mark the first key word and call it with **OK**. Then select the language and confirm it with **OK**.
In the **TV menu**, **Connections** cannot be called (displayed in grey).	A timer recording is in progress.	Wait until the timer recording ends or delete the timer recording (page 49).
The control functions of the Loewe Recorder and the **Timer** are not working or are not working properly	a) The Digital Link function is not activated or not possible in the recorder. b) EURO-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the recorder). b) Connect EURO-AV cable (page 37). c) Register recorder (page 37).
General problems when connecting **external devices** via an **AV input**.	a) The device is not logged in to the **connection wizard** or is connected differently from shown in the **connection diagram**. b) The **AV standard** is set incorrectly. c) The **signal type** is set incorrectly.	a) In the **connection wizard** (**TV menu → Connections → New devices/modifications**) compare the **connection diagram** with the actual installation and connect as shown if necessary (page 37). b) Set the correct standard (page 16). c) Set the correct signal type (page 37). If for **AV standard** or **AV signal Automatic** is set 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 **connection** of a **decoder** does not function or does not function properly.	a) The signal is not decoded because the correct decoder stations have not been selected in the **connection wizard**. b) In decoder mode the sound is missing because the wrong decoder sound has been assigned in the **connection wizard**.	a) Follow the instructions in the **connection wizard** (**TV menu → Connections → New devices/modifications**) and select the appropriate decoder station (page 37). b) Follow the instructions in the **connection wizard** and select the right audio source (Decoder, TV oder Autom.) (page 37), see also the decoder manual.

Troubleshooting

Problem	Possible cause	Remedy
Digital Link Plus 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 **Teletext** various **character sets** are displayed incorrectly.	The wrong character set has been set in the Teletext menu.	Set the right character set: **Teletext menu - Settings - Character set:** Select **Standard** or the appropriate character set.
No sound via the external digital **audio amplifier**.	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG). b) TV set and external digital audio amplifier are not connected with each other.	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations on the TV set switch to stereo in the **status display (END) – language/sound selection (Green button)** b) Connect **Digital-Out** from the TV set to a **Digital-In** input of the external digital audio amplifier and select the appropriate input to this.
The **picture** of a connected external recorder is visible but the **timer** cannot be called.	The device is not registered in the **connection wizard** or is connected differently from shown in the **connection diagram**.	In the **connection wizard** (**TV menu → Connections → New devices/modifications**) compare the **connection diagram** with the actual installation and connect as shown if necessary (page 37).
The **picture** of a connected external recorder is visible but the error message **no recorder available** is still output.	The device is not registered in the **connection wizard** or is connected differently from shown in the **connection diagram**.	In the **connection wizard** (**TV menu → Connections → New devices/ modifications**) compare the **connection diagram** with the actual installation and connect as shown if necessary (page 37).
Photos on the USB stick are not displayed correctly in the PhotoViewer or a "?" appears.	The photo is not available in a displayable format.	Convert photo file into a standard JPG format on the PC.

Technical data

General data

Type	Individual 40 Selection Full-HD+
Article number	67444xxx
Dimensions for device without stand (W x H x D) in cm Dimensions for device with stand (W x H x D) in cm	101.4 x 69.6 x 10.3 101.4 x 74.9 x 38.5
Weight for device without stand (approx.) in kg Weight for device with stand (approx.) in kg	28.5 33.5
Display	FHD-LCD technology
Picture diagonal in cm/picture format	101 / 16:9
Resolution in pixels	1920 x 1080
Dynamic contrast ratio	4,500:1
Static contrast ratio	1,200:1
Viewing angle horizontal and vertical	178°
Power consumption (EN 62087) in operation (watt) in standby (watt)	 150 1.8
Ambient temperature (Celsius)	5° – 35°
Relative humidity (non-condensing)	20 – 80%
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)

Electrical data

Chassis designation:.. L 2700
Power supply: ....220 V – 240 V/50–60 Hz
Tuner:... VHF/UHF/cable/hyperband
Range:.. 45 MHz to 860 MHz
Station storage locations incl. AV and radio:....................................... 4000
TV standards: .... B/G, I, L, D/K, M, N
Colour standard: .... SECAM, PAL, NTSC, NTSC-V, PAL-V (60 Hz)
Sound standard: ....Mono/Stereo/2-Ton/Nicam B/G, I, L
....Dolby Digital, Dolby Virtual Speaker, DTS
Audio nominal power (sine):... 2 x 20 watt
Lower limit frequency TV loudspeaker:... 90 Hz
Teletext: .... TOP/FLOF Level 2.5
Page memory.. 2000
Digtial teletext (only in UK / IRL with active MHEG-5 software) MHEG-5

Connections

Mains socket:	....	Supply voltage
EURO-AV 1	Video IN:...	Y/C (S-VHS/Hi 8)
	....	CVBS (VHS/8 mm)
	Video OUT:	CVBS (VHS/8 mm)
	....	Y/C (S-VHS/Hi 8)
	Audio IN:	L/R
	Audio OUT:	L/R
EURO-AV 2	Video IN:...	Y/C (S-VHS/Hi 8)
	....	CVBS (VHS/8 mm)
	....	RGB

¹ if retrofitted.

EURO-AV 2	Video OUT:	CVBS (VHS/8 mm)
	....	Y/C, (only with SVHS Link Plus)
	Audio IN:	L/R
	Audio OUT:	L/R
Jack 3.5 mm:	....	Headphones 32- 2000 ohm
Mini-DIN (AVS)	Video IN:...	Y/C (S-VHS/Hi 8)
Cinch (yellow)	Video IN:..	CVBS (VHS/8 mm)
Cinch (white/red)	Audio IN:	L (white) / R (red)
2x IEC socket	75 Ohm/5 V/80 mA:...............................	Antenna/cable/DVB-T/C
2x F socket	75 Ohm 13/18 V/350 mA:	ANT-SAT DVB-S/S2 ⁽¹
Jack 3.5 mm	AUDIO IN2:..	L/R
Cinch	AUDIO IN max. 2Vrms:............................	Centre
2 x Cinch	AUDIO IN1:..	L (white) / R (red)
2 x Cinch	AUDIO OUT (level depends on configuration):	L (white) / R (red)
Cinch	COMPONENT IN:....................................	Cb/Pb signal
Cinch	COMPONENT IN:....................................	Cr/Pr signal
Cinch	COMPONENT IN:....................................	Y signal
Cinch	AUDIO DIGITAL IN (SPDIF):......................	Digital audio
Cinch	AUDIO DIGITAL OUT (SPDIF):	Digital audio
SUB-D	AUDIO LINK:..	Multi-sound
SUB-D	PC IN:..	PC/STB video signal
SUB-D	RS-232C:..	serial interface
Mini-DIN	SERVICE:	Service/L-Link
Mini-DIN	CONTROL:	Rotating stand control
USB	USB 2.0:...	Standard JPEG files
2 x HDMI	Digital Video/Audio IN	
	Type A 19pole Standard 1.2a:	Digital video and audio
2 x CI Slot	Common Interface	Slot for CA module

Accessories

Accessories

Trim:
With your Individual Selection device it is possible to replace the laterally attached trim (panels) to match the ambiance of your home. There are different surface structures or colours that can be selected for your device. Please contact your dealer in this regard.
Wood trim is a natural product. In this case UV light (strong sunlight) can cause slight discoloration.

Loewe Individual Sound:
Your TV set can be extended perfectly with the Individual Sound speaker system. Numerous speaker combination possibilities with standard speakers, staellite speakers and a subwoofer can be implemented.

Loewe Individual Sound Projector:
With the Loewe Individual Sound Projector you can easily enjoy digital Surround Sound without expensive installation and connection of several speakers. The Sound Projector is easy to set and operate.

Loewe DVD recorder:
The DVD recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. Combined these devices form a system that offers many advantages.

Loewe Blu-ray Player:
With the Loewe Blu-ray Player "BluTech Vision" you are ideally equipped for the successor format to DVD. With the Loewe system integration you control BluTech Vision and your Loewe TV set simultaneously with the Assist+ remote control.

Digital Twin Satellite Tuner:
You can have your TV set retrofitted with a digital twin satellite tuner. The twin satellite tuner is fully integrated in the TV set and operated with the remote control/menu control of the TV set.

ARS Twin DVB-S2   Loewe order no. 89565.080

Cable:

AUDIO LINK adapter	1.5 m	Loewe order no. 89954.001
AUDIO LINK	1.5 m	Loewe order no. 89952.001
AUDIO LINK	6 m	Loewe order no. 89952.002
AUDIO LINK	10 m	Loewe order no. 89952.003
Cubic plug cable	1.5 m	Loewe order no. 90418.930

Setup possibilities
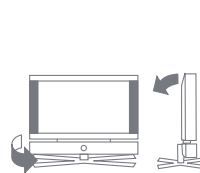
Screen Table Stand

Wall holder WM54
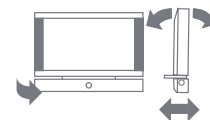
Screen Wall Mount 2 [(1]
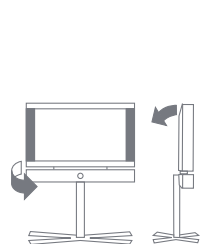
Screen Floor Stand MU
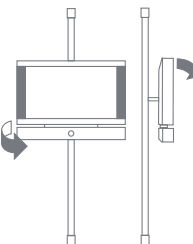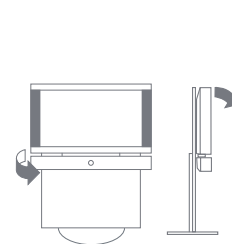
Screen Lift Plus [(1]

Screen Paravent

Individual 40 Selection Full-HD+

- Screen Table Stand (delivery status)
- Wall holder WM 54
- Screen Wall Mount 2 [(1]
- Screen Floor Stand MU
- Screen Lift Plus [(1]
- Screen Paravent
- ARS Motor Unit Table Stand (optional)

Subject to availability.

[(1] Only in conjunction with appropriate adapters that are sold separately.

Glossary

0-9

24p movie display: Modern movie makers produce movies with 24 (full) pictures per second (24p), conventional TV sets (and most DVDs) show 50 (half) pictures per second. To play the movie, the original number of pictures is doubled and the film sped up. This is optimal for sports broadcasts but for quieter movies it distorts the picture quality.

A

Active antenna: An antenna with its own power supply or amplification that can improve reception in areas with poor reception.

AV socket: Socket for audio and video signals.

AV sources: Audio/video source.

AVS: Audio/video sockets on the TV set (cinch and Mini-DIN).

B

Band: Designation for a frequency range.

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.

Cinch cable: Cable for transmitting audio or video.

CI slot: See **Common Interface**.

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.

Component IN: Connection by which the video signal is transmitted via three separate cinch connections. It is made up of the brightness signal "Y" and the colour difference signals "Pb" and "Pr". **YPbPr** is the original analogue version of the digital **YCbCr** with which, among other things, video data stored on the DVD and transmitted by satellite, cable or antenna in DVB are colour coded.

Conditional Access Module: See **CA module**.

D

Decoder: Analogue, coded TV signals are passed through a decoder and made visible again.

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.

Dolby Digital: Digital multi-channel audio. The digital standard for high quality home movie systems. The individual channels are broadcast separately in this standard. The three front channels right, left and centre, the two surround channels right and left and the external subwoofer channels are called a 5.1 signal. Another term for Dolby Digital is AC3.

Dolby Pro Logic: Analogue multi-channel audio. Converts a Dolby-coded stereo signal into a surround sound. This usually contains four channels (front left, centre, front right, surround channel). A special subwoofer channel is not generated in this method.

Dolby Pro Logic II: Analog multi-channel audio. Dolby Pro Logic II is a further development of **Dolby Pro Logic**. This method generates a 6-channel spatial sound from a stereo or Pro-Logic signal (front left, centre, front right, surround left, surround right, subwoofer).

Dolby Surround: Analogue multi-channel audio system that brings four audio channels down to two audio tracks with the aid of a matrix coding.

Dolby Virtual Speaker: The Dolby Virtual Speaker technology simulates the surround playback of a real 5.1-channel playback with only two speakers.

DTS: Digital Theater Systems; Digital multi-channel audio.

DVB-C/-S/-T: Digital Video Broadcasting stands for digital television. Technical DVB is the standardised process for transmitting digital content (television, radio, multi-channel audio, room sound, **EPG**, Teletext, and other supplemental services) through digital technology. **C** stands for transmission via cable, **S** for distribution via satellite and **T** for terrestrial or antenna distribution.

DVD: Abbreviation of Digital Video Disk and later Digital Versatile Disk.

DVD preceiver: Combi-device of DVD player and radio without integrated amplifier.

DVI: Digital Visual Interface, is an interface for transmitting digital video and graphic data (without audio).

Dynamic contrast ratio: Here the light intensity of the display is adapted in case of a high black portion in the picture. The so-called backlights are dimmed automatically and the contrast ratio increases temporarily, i.e. dynamically.

E

Electronic Programme Guide: See **EPG**.

EPG: Electronic Programme Guide is the electronic variant of a printed television programme guide. Using the EPG you can watch the TV programme of the TV stations which transfer the appropriate data. The overview of the programmes contains the title, beginning and end and the duration of the programme. In addition also a brief description of respective content of the programme is displayed.

Euro AV socket: Interface for connecting video devices to a TV set. This socket is also referred to as Scart socket.

Glossary

F

FLOF: Full Level One Facilities. Teletext system in which designations and numbers of the jump destinations are transmitted separately for every page on the bottom line. This guides the reader to related topics for example. An information about which pages exist and which pages have sub-pages is not available in FLOF.

H

HDCP: High-bandwidth Digital Content Protection. Coding system provided for the interfaces **DVI** and **HDMI** for protected transmission of audio and video data.

HDMI: High Definition Multimedia Interface is a newly developed interface for full digital transmission of audio and video data.

HDTV: High Definition Television is an umbrella term that covers a number of high resolution television standards.

HD-Ready: A quality seal that is awarded to products which are capable of displaying high-definition television (**HDTV**).

High band and Low band: Transmission ranges for satellites.

J

JPEG: Joint Photographic Experts Group is a committee that has developed a standard method of compression for digital images. This JPEG method (**JPG** for short) named after the committee is a widely used graphic format for photos.

JPG: See **JPEG**.

L

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

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.

N

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 picture standard.

P

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

PAL: European picture standard.

PCM: Pulse Code Modulation for digital audio.

Picture in Picture see **PIP**.

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

Pixel: Refers to the smallest unit of a digital grid graphic and its representation on a screen with grid control.

Pixel error: A pixel error is a defective pixel, usually on an LCD. Pixel errors may be caused by production faults. They are expressed for example by a constantly lit pixel or a constantly black pixel. Single defective pixels however are excluded from a guarantee.

Progressive JPEG: Progressive **JPEG**s are built up gradually. The picture quality improves continuously during loading.

ProScan/Progressive Scan: Progressive Scan (abbr. PS) or full picture method is a technique in the picture build-up of monitors, TV sets, beamers, and other display devices in which the output device is not sent line interlaced half pictures – unlike in the interlace technique – but real full pictures.

R

RGB: Colour signals red, green and blue.

Glossary

S

Satellite tuner: Receiver for satellite programmes.

SDTV: Standard Definition TeleVision.

SECAM: French picture standard.

Set Top Box: In the entertainment industry a Set Top Box (STB) is a device that is connected to a different device - usually a television - and thus offers the user additional use possibilities.

Signal input groups: The signal sources are divided into different groups depending on the applied signal. All signal input groups with their corresponding signal types and the possible inputs are listed below.

TV analogue:
Signal type: FBAS, YC, RGB-SD (480i/576i), Component-SD (480i/576i)
Input: Tuner analogue, AV1, AV2, AVS, COMP. In

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

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

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

PC:
Signal type: RGB
              (PC modes: e.g. 800x600, 1024x768, 1280x1024, 1360x768)
Input: PC IN

PhotoViewer:
Input: USB

Signal strength: strength of the received antenna signal.

Signal quality: quality of the incoming antenna signal.

Smart Card: The Smart Card is an electronic chip card issued by the respective programme provider or by the certification-free Pay TV operators. It contains the code which is decoded by the **CA module**.

Static contrast ratio: Describes the difference between the brightest and darkest picture display.

Stereo: Dual-channel audio.

Switching voltage: Video devices specify this voltage to switch the TV device to playback.

Symbol rate: describes the transmission speed for data transmission.

T

Terrestrial: In data transmission a wireless transmission that does not use satellites as intermediate station is referred to as terrestrial.

TFT: Thin-Film-Transistor. One widely distributed application is control of liquid crystal flat screens, for which a signal transistor is used for each pixel. This design of display is also referred to as active matrix, however it is frequently also referred to as TFT display.

TOP: Table of Pages. Teletext system in which the individual pages are divided into topics. The blocks stand for a higher hierarchy level (e.g. News, Sport, Programmes) and the groups for the level below (e.g. Home/Abroad, Football/Tennis). Abbreviations can be assigned to the pages which are displayed in colour on the bottom line and can be selected with the four coloured buttons on the remote control. Information is also transmitted which pages exist and which have sub-pages.

Tuner: Another term for receiver.

U

USB: Universal Serial Bus. Serial bus system for connecting external devices (USB card reader, USB stick).

V

VGA: PC interface for connecting a monitor.

Virtual Dolby Surround: A technology certified by Dolby. It creates a virtual sound from two speakers. Prerequisite is **Dolby Surround** or **Dolby ProLogic** as a source. The used virtualizer processes all multi-channel signals and gives the impression of additional speakers.

VPS: The Video Programme System (VPS) is a signal that some (not all) television transmitters transmit in the vertical blanking interval of the television signal. The signal is used by video and DVD recorders when recording programmes to react to delays in start time, programme changes and excesses of the planned program time.

Y

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

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

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

The code number **3001** cancels a secret code and thus the parental lock. Please keep in a safe place.

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