



Operating instructions

TV

- Connect 26
- Connect 22



Connectivity

LOEWE.

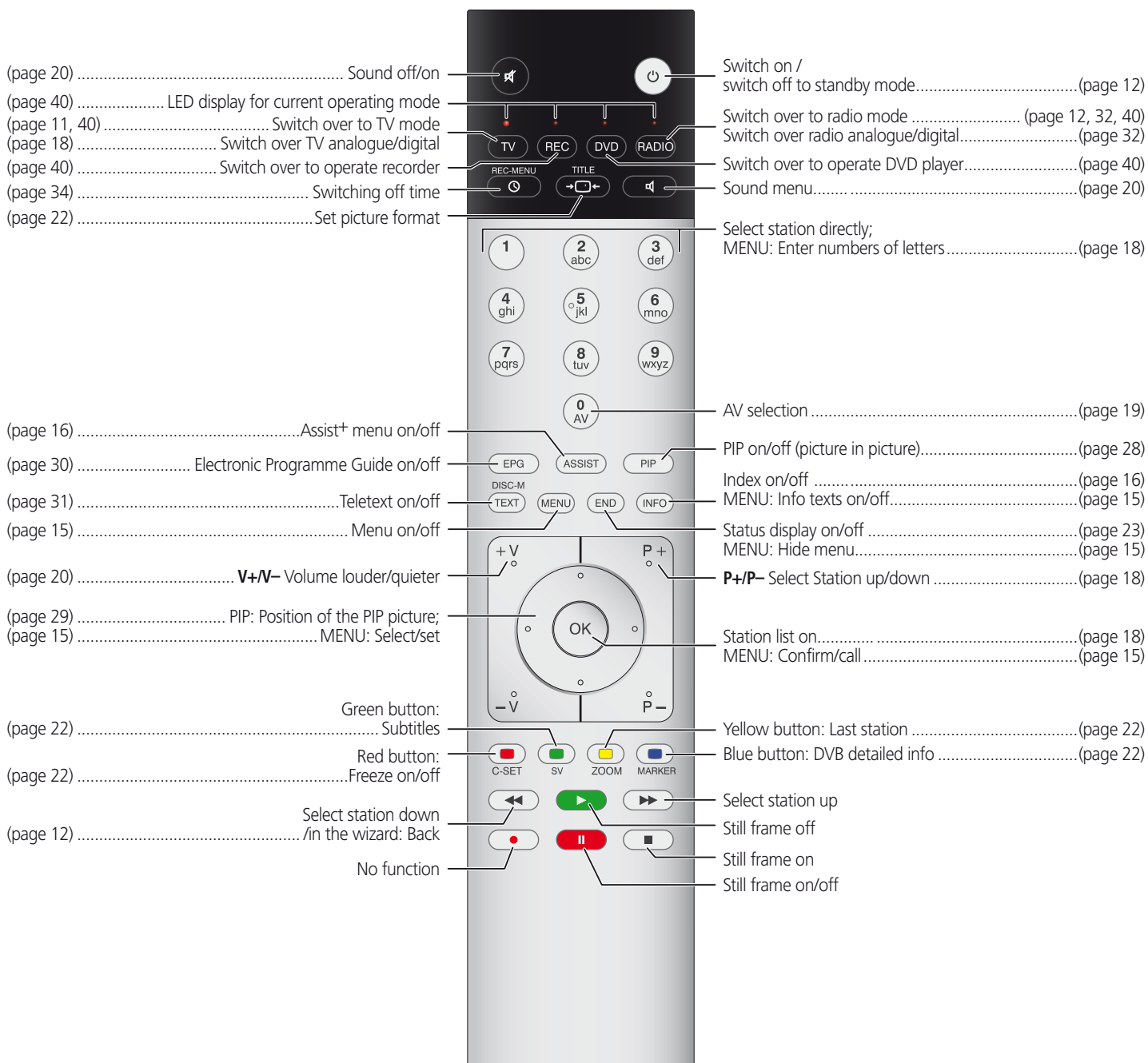
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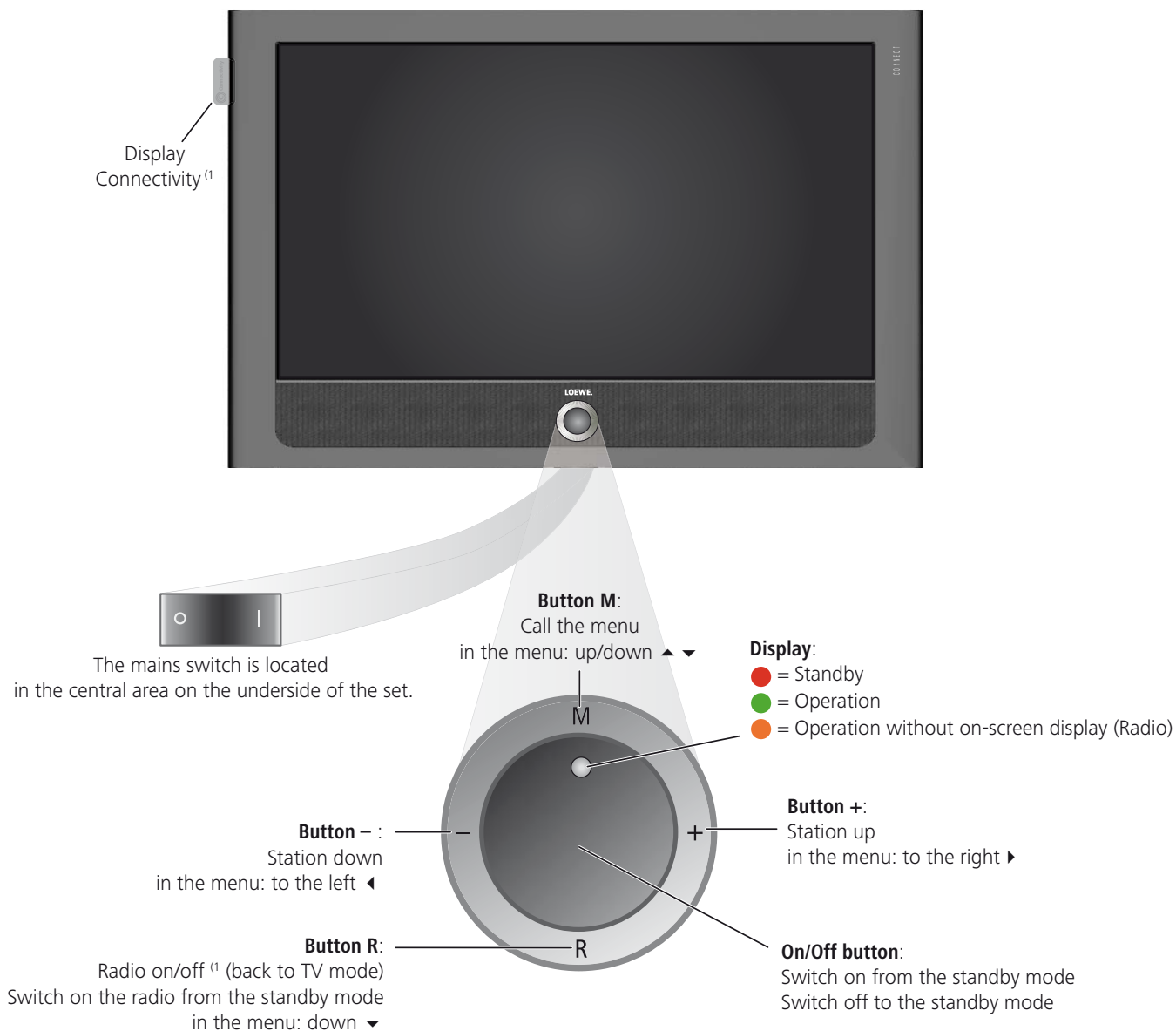
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Remote control – TV functions

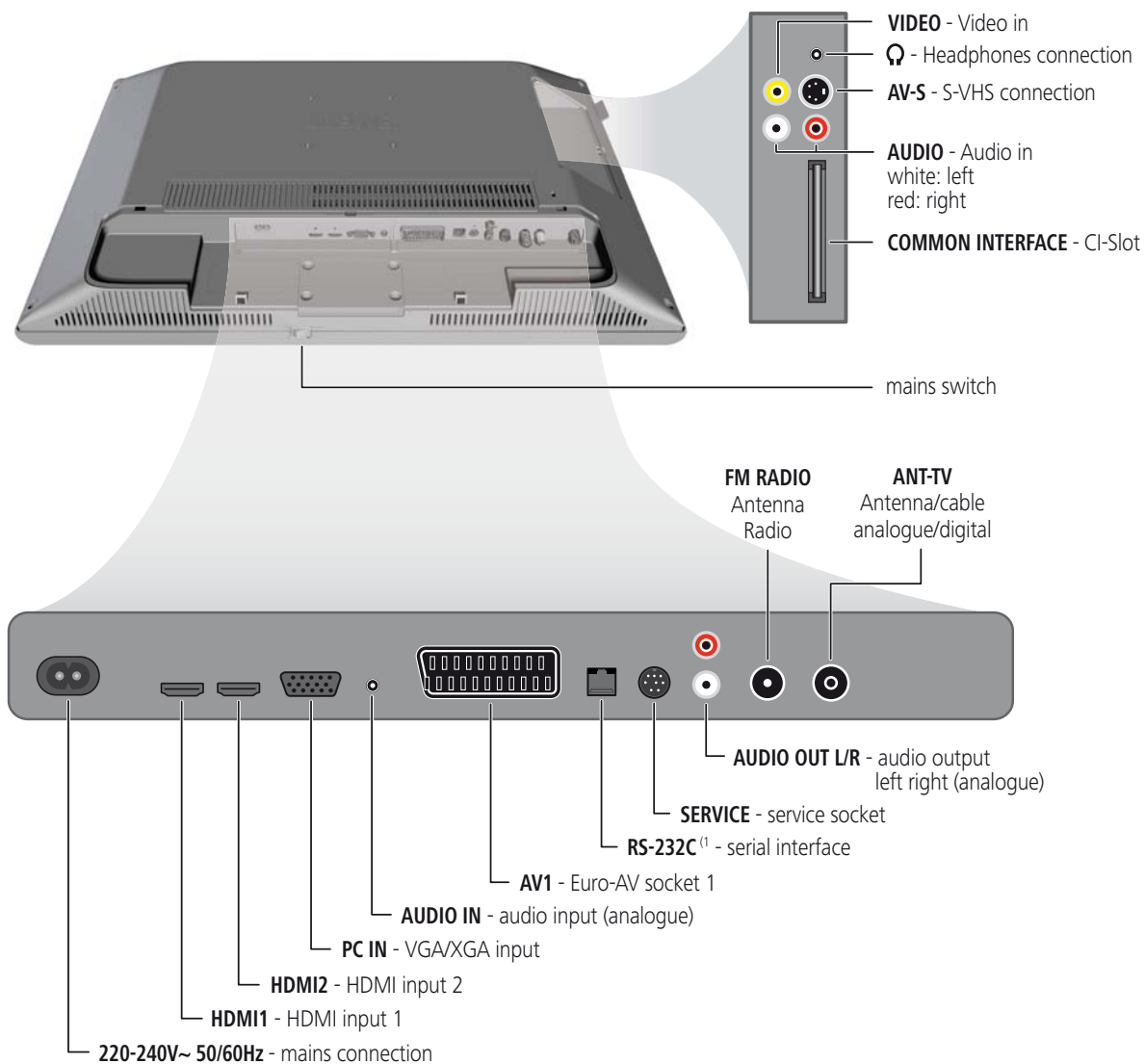


Control unit front side of the device



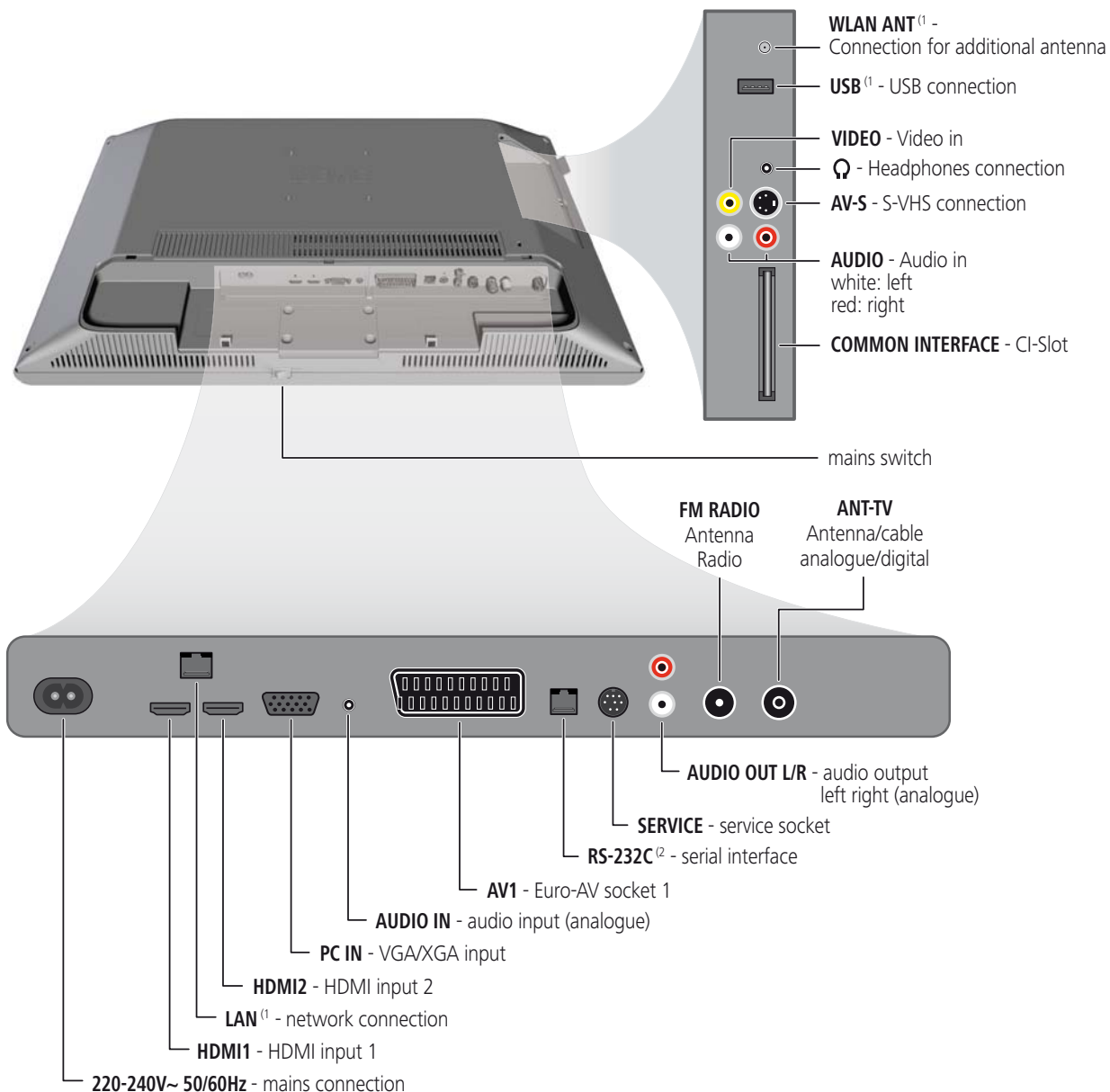
⁽¹⁾ Only in sets with Network Mediaplayer (see operating manual Network Mediaplayer).

Connections rear side of the device – Connect 22



⁽¹⁾ Only for hotel applications.

Connections rear side of the device – Connect 26



⁽¹⁾ Only in sets with Network Mediaplayer (see operating manual Network Mediaplayer).

⁽²⁾ Only for hotel applications.

Welcome

Thank you!

Loewe sets high standards in technology, design and user friendliness. This applies equally for TV, video and accessories.



Your TV set is prepared for the TV standard "HDTV" (High Definition Television). With its screen resolution and HDMI digital interface (High Definition Multimedia Interface), it offers the possibility of displaying HDTV programmes in outstanding picture quality with the HDMI interface.



Therefore, it carries the European certification mark "HD ready".

The TV set is equipped for digital reception¹⁾. You can use the 'everywhere TV' (DVB-T), already being broadcast widely, as well as digital cable (DVB-C).

The reception of analogue TV stations with an aerial/cable is also possible. In addition, the TV set is equipped with a tuner to receive analogue radio stations via a VHF aerial.

The Connect 26 Media devices allow you to connect the TV set with your computer. You can then play multimedia contents (photos, music files, videos) which are provided by a media server in your home network.

All functions are controlled with the Loewe remote control.

We have designed the TV set so that it is easy to use with the help of wizards and menus. Information on settings in menus will be shown automatically. In this way you will understand connections quickly.

Scope of delivery

- LCD TV set
- Power cable
- Antenna cable
- Table mount (assembled)
- Remote control Assist with two batteries
- Additional antenna WLAN if the TV set is equipped with Network Mediaplayer
- Operating instructions of the Network Mediaplayer if the TV set is equipped with Network MediaPlayer.
- This operating instructions


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 16).

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 45 onwards gives explanations of certain terms used in the TV set and the operating manual.

Sections beginning with the symbol  indicate important instructions, hints or conditions for the following settings.

Terms which you will find in the menu or printed on the remote control or the TV set are printed in **bold** letters.

In the description, the necessary operating elements are located to the left of the text with the handling instructions.

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

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

Acknowledgements

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¹⁾ The reception of digital stations may be limited by individual provisions of the respective station/programme provider

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 start-up wizard will help to install your TV set for the first time (see page 12).

Search wizard

If, after the initial installation, you want to search for new stations, 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 devices are connected to the AV1 and AV-S/AV-VIDEO connections (see page 36).

Assist+

You can select the most important operating modes directly with the Assist+ menu (**ASSIST button**). Selectable modes are: TV (analogue/digital), Radio (analogue/digital), Teletext, Index and when equipped with Network Mediaplayer also MediaNetwork (see page 16).

Station list

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

If analogue and DVB stations are received and saved during the initial installation/station search, two separate station lists for analogue and DVB stations will be available.

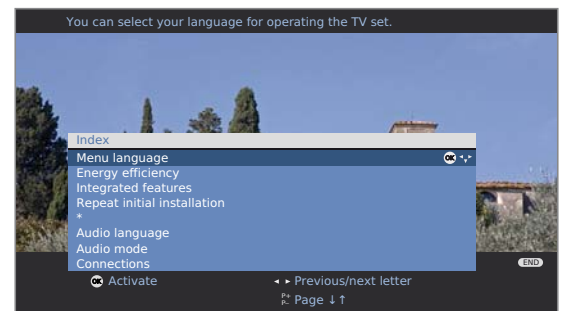
Info display and TV index

An information display for each menu item

The info display shows content-related info texts for most menu item at the top of the screen. It forms a convenient operating system with the index (see page 15).

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 16).



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 intended exclusively for the reception and reproduction of video and audio signals and designed for the home and office. It may not be used in rooms with high **humidity** (e.g. bathrooms, saunas) or high **dust concentration** (e.g. workshops). The manufacturer's warranty is only valid for use in the specified permissible environment.

If the set is used outdoors then ensure that it is protected against **moisture** (rain, splashing water, or dew). High humidity and dust concentration cause creep currents in the set. This can cause electric shocks or fires.

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** is leaking, wear rubber gloves for handling the TV set. If there is **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 power 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 **power cable** in such a manner that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, stepped on or exposed to **chemicals**; The latter also applies for the entire equipment. A power cable with damaged insulation can cause **electrical shock** and is a **fire hazard**.

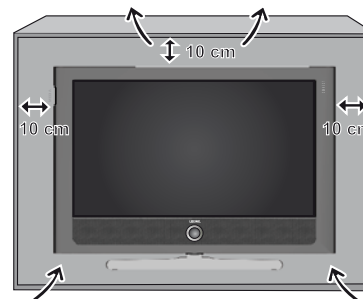
Air circulation and high temperatures

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.

At least 10 cm clearance must be left at the sides and top for air circulation if the TV set is placed or hung in a **cabinet** or 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 authorized television technicians.

Only use **original accessories** such as Loewe stands if possible (see Accessories on page 44).

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

Use only a soft, clean, damp cloth to clean the TV, screen and remote control, do **not use** any **caustic** or **abrasive cleaning agents**.

Connect TV sets with a high gloss surface may only be cleaned with a soft, clean antistatic cloth.

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 power. The mains plug and all connected antenna cables should also be pulled out during long periods of **absence**.

Note on the LCD screen

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

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

Environmental protection

Energy consumption

Your TV set is equipped with an eco-standby power supply. In the standby mode, the power consumption drops to low power (see Technical data on page 43). If you want to save even more energy then switch the device off with the mains switch.

The power consumed by the TV set in operation depends on the choice of the energy efficiency presetting in the initial installation (page 13).

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. Further details about returning (also for non-EU countries) are available from your local 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** that are set up for this purpose in retail stores.

Initial installation

Installing the TV set

Installation as table set with the table stand included in delivery and mounted.

See accessories (page 44) for other installation options.

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 40 to find out how to operate other Loewe equipment.

Connecting the TV set

Connecting to the mains

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

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

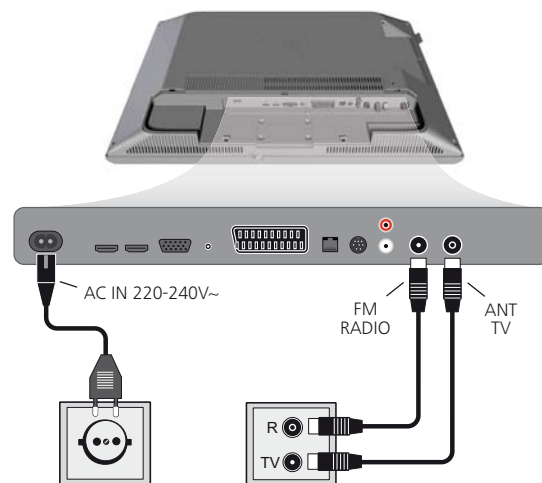
Connecting the antenna

Analogue/DVB-C/DVB-T aerial:

Plug the aerial plug for the aerial or cable unit or indoor aerial in the **ANT-TV** socket.

FM (VHF) aerial:

If there is an FM (VHF) radio aerial, connect this to the **FM RADIO** socket.



Connections on the back of the set
(see also page 5 and 6).

Connect network (only for sets with Network Mediaplayer)

Connection and configuration of the network connection is described in the Network Mediaplayer operating manual.

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 33).

Initial installation

Turning the set on/off

Switching the TV set to standby mode

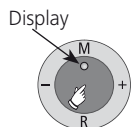


Actuate the mains switch on the bottom of the set.

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 centre of the on/off button to switch the TV set on/off.



Meaning of the display color:

Red: Standby mode

Green: TV set is switched on

Orange: Radio mode (screen off)

Switching the set on with the remote control



Press the **on/off button**



or
numeric buttons



or
TV button



or
OK button – station list is called



or
ASSIST button – Assist+ menu is called.

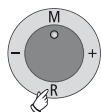
Switching the set off with the remote control



Press the **on/off button**.

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

Switch on in Radio mode



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

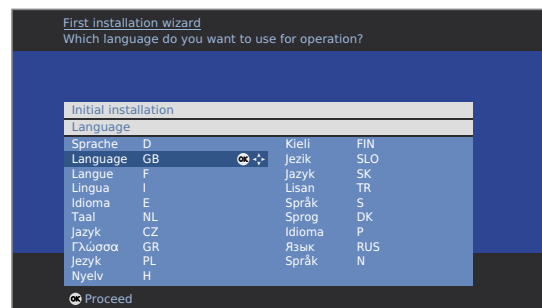


OR:
Press the **RADIO button** on the remote control (radio mode, see page 32).

First installation wizard

Initial installation after switching on for the first time

This wizard starts automatically after the set is switched on for the first time, however it can also be called later manually in the TV index, see **Repeat initial installation** on page 16.



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

Brief explanation of button functions:



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



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



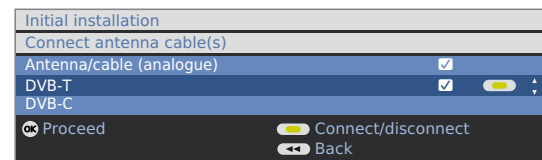
With the **yellow button** you can select or remove the individual items (see the example below). When an element is selected, it is marked by a checkmark .



Use this button to go back one step.



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



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

continued on next page →

Initial installation

Explanations of the setting possibilities:

Energy efficiency



Specify how energy-efficiently you would like your TV set to operate. The value for the contrast (and therefore the brightness of the background lighting) is adjusted depending on the presetting.

Eco standard:

The emphasis for home use is on low energy consumption.

Premium mode:

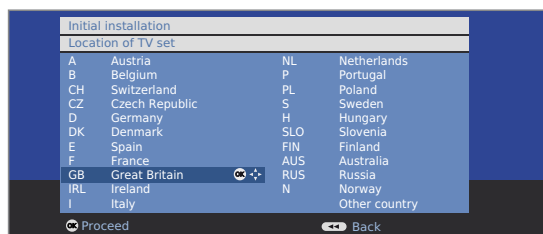
This mode optimises the settings to a brighter environment at a higher energy consumption.

Shop mode:

The picture settings are aligned to operation in the presentation room.

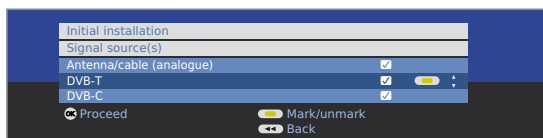
The presetting can be changed later in the **TV menu** under **Settings** → **Energy efficiency**.

Location of TV set



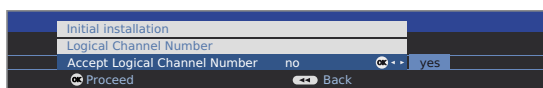
Select set location for country-specific presettings.

Antenna selection



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

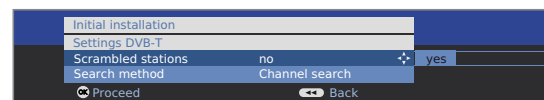
Logical Channel Number (DVB-T/C)



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

In this case the preset channel numbers are adopted as station memory locations and the stations of the preferred signal source sorted according to LCN. There may be gaps in the numbering of the station list depending on the LCN.

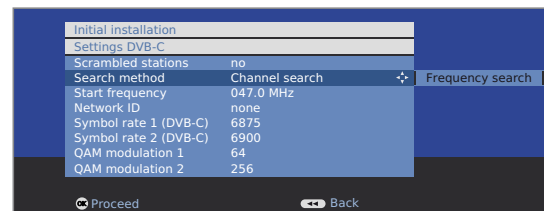
DVB-T:
Settings



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 33.

If you want to run the station search independently of the channel grid, select **frequency search** for the search method (search can take a lot longer).

DVB-C:
Settings



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 33.

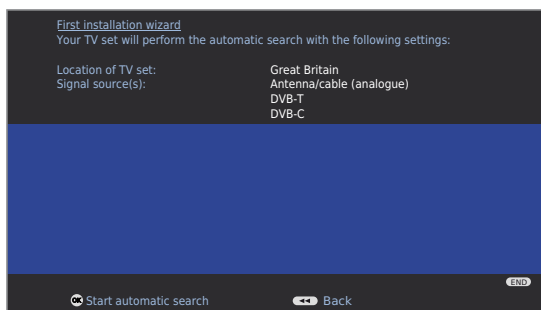
If you want to run the station search independently of the channel grid, select **frequency search** for the search method (search can take a lot longer).

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).

continued on next page →

Initial installation

Start search



You will see an overview of the selected settings. You can go back to any changes of the settings with **◀**.

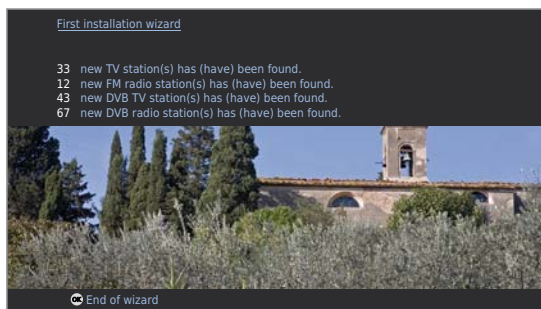
Start the automatic search by pressing **OK**.

It searches for TV and radio stations from the selected signal sources.

The TV and radio stations found in the automatic search will be saved in separate analogue and digital (DVB) station lists (see page 18).

With the favourites list, analogue and DVB stations can be mixed in one list (see page 19).

After the search is finished, you will see an overview with the number of TV and radio stations found.



End the wizards by pressing **OK**.

Positioning/aligning the DVB-T antenna

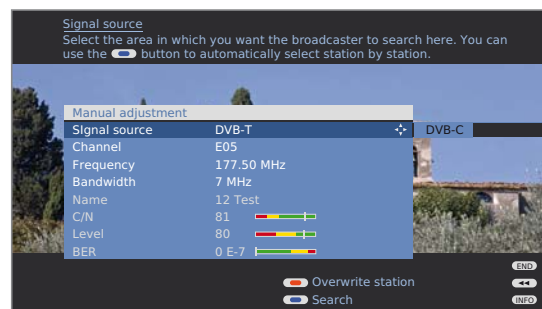
If you receive one or more DVB-T stations with picture or sound interference, you should change the position and alignment of the antenna. Ask your dealer to tell you which channels are used to broadcast the DVB-T stations in your region.

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



Call **TV menu**.

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



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

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



Blue button: Start search.

Search for DVB-T stations one after another and compare values for **C/N** and **Level**.

Then position/align the antenna to the weakest station so that maximum values for **C/N** and **Level** are obtained.

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

Explanation of the setting possibilities:

Bandwidth The relevant bandwidth will be set automatically according to the channel and country selected.

Operating convenience

General information on menu operation

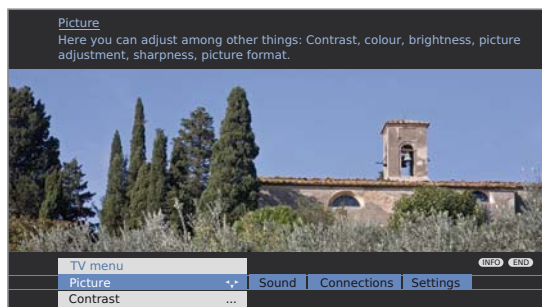
Menus for the individual operating modes (TV, Radio) are called with the **MENU button**. Other menus can be opened with other buttons on the remote control.

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**.



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

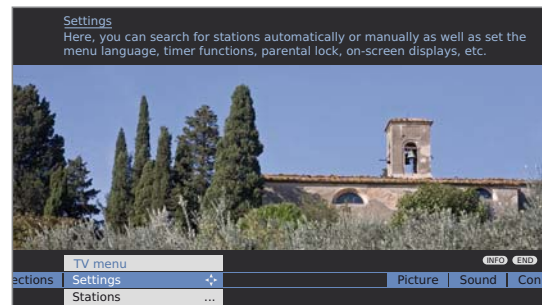
For most menu items, the info-display shows you an info-text relating to its content at the top of the screen, which offers help for the settings.

➡ A menu is displayed.

INFO

Show infotext.

You will be able to see if there is an info-text available from the displayed INFO symbol at the bottom right above the menu bar.



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 **Menu language**, **Energy efficiency**, **Integrated features** and **Repeat initial installation**.

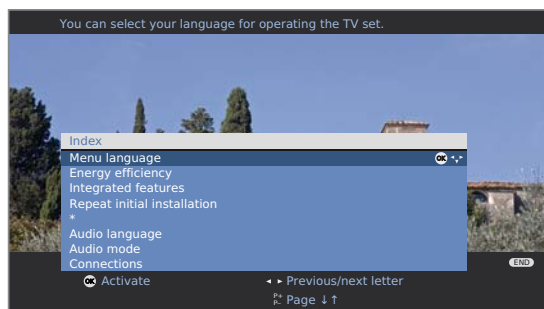
Call index

➡ 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.



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

Selecting a keyword

Change 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 item **Timer functions**, you go to the setting with **OK**.

The Assist+ menu

The most important functions of the TV set can be accessed directly by the Assist+ menu.

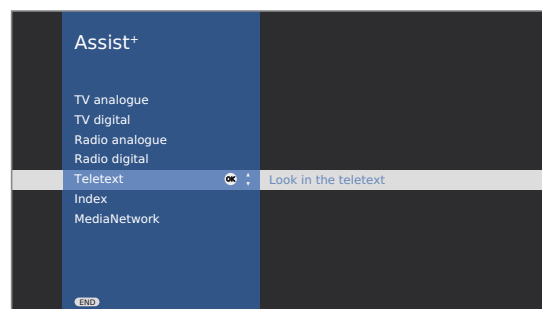
Call Assist+

ASSIST

Call **Assist+** menu.



▲ ▼ Select functions,
OK calls the function.



Description of the individual functions:

➡ When the favourites list is selected instead of the station overview, the TV analogue and TV digital menu items are replaced by one menu item, TV.

TV analogue: See page 18 onwards.

TV digital: See page 18 onwards.

Radio analogue: See page 32.

Radio digital: See page 32.

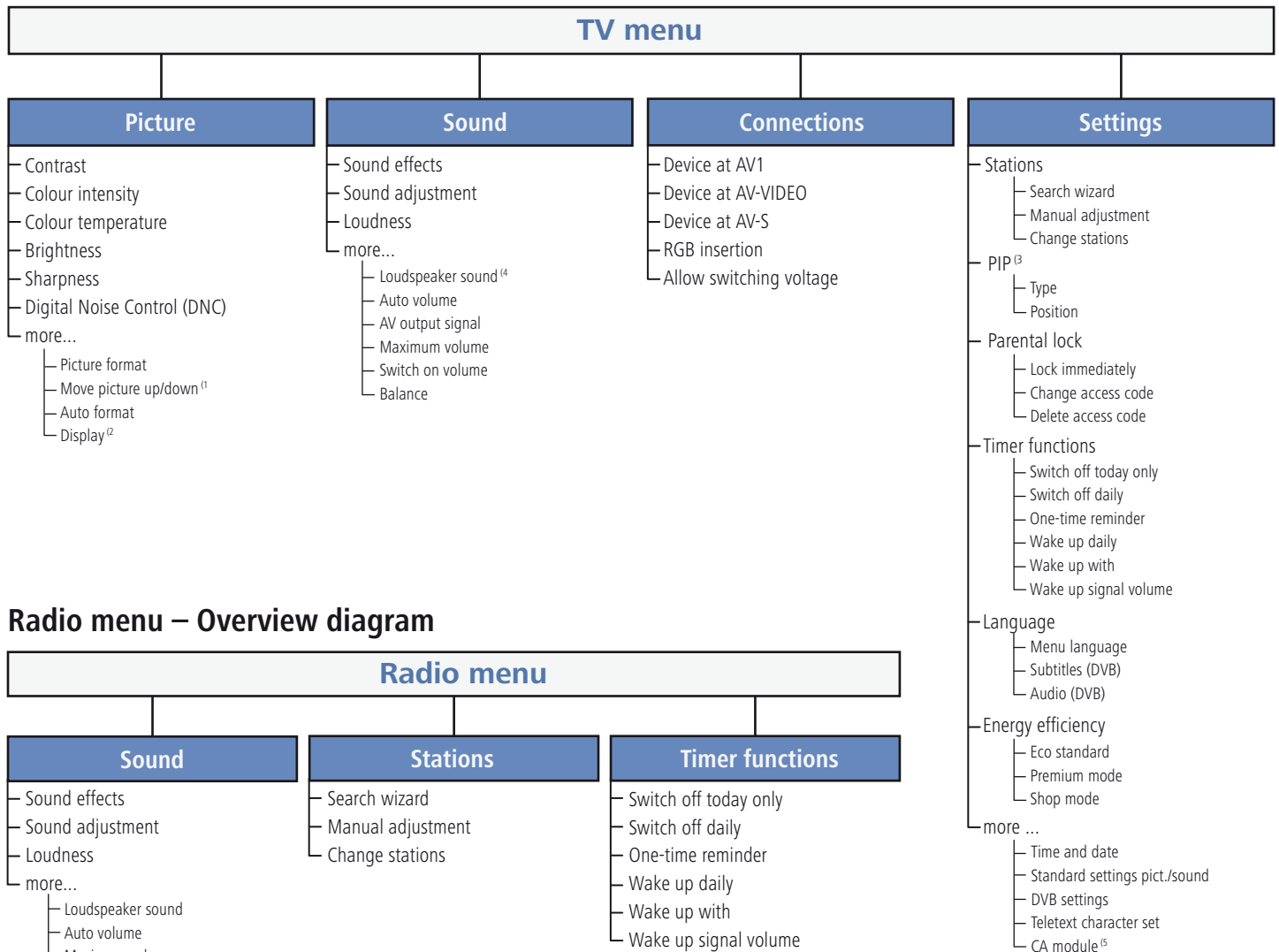
Teletext: See page 31 onwards.

Index: See left column.

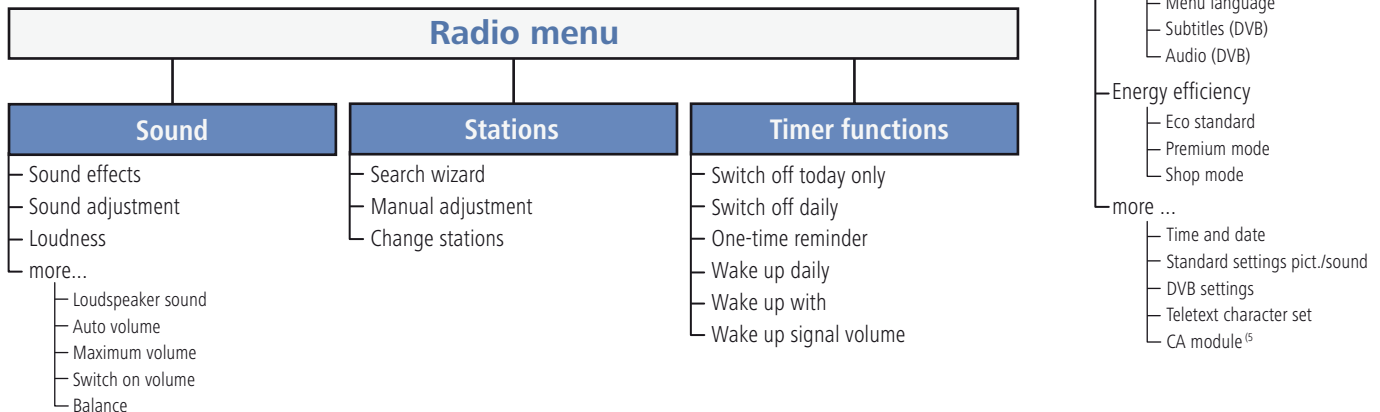
MediaNetwork: Menu item only appears if the TV set is equipped with Network Medioplayer; see Network Medioplayer operating instructions.

Operating convenience

TV menu – Overview diagram



Radio menu – Overview diagram



¹⁾ Menu item only appears for certain picture formats (see page 22).

²⁾ The menu item Display can only be selected when the PC IN input is selected and a signal is present (see page 39).

³⁾ Menu item may only be selected if PIP mode is active (see page 28).

⁴⁾ Only available with analogue stations (see page 20).

⁵⁾ Menu item can only be selected for digital stations and when a CA module is plugged in (see page 33).

Daily operation

Select station

If analogue and DVB stations were received and saved during the initial installation/station search, two separate station lists for analogue and DVB stations are available.

Switching between analogue and DVB stations

➡ Switching between TV analogue and TV digital is not possible when the favourites list is selected.



Switching between **analogue** and **digital** TV.

Station selection 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 in the favourites list is switched over with **P+ / P-** (see page 19).

➡ If other languages or DVB subtitles are available on DVB stations, the language and subtitle selection is displayed under the station display. See also page 23: Additional selection possibilities for DVB stations.

Station selection with the numeric keys of the remote control



long

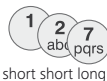
1-digit stations

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

or:

Press **numeric button** briefly, the station changes after 2 seconds (immediate change for up to 9 stored stations).

2-digit and 3-digit stations



short short long

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 if up to 99 or 999 stations are stored).

4-digit stations



all short

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

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

Station selection with the station list

➡ In normal TV mode, without other displays, no favourites selected:



OK Call Station list.



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



▲ ▼ ◀ ▶ 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.

Daily operation

Station selection with the favourites list

You can save and retrieve your favourite stations in a favourites list. Up to 99 stations can be put into the favourites list. Create and change your favourites list according to your needs (see **Put together / change favourites lists** on page 27).



► In normal TV mode, without other displays:

OK calls the station list.



Red button: Accesses favourites.

► If the favourites list is still empty, open the 'select/change favourites' menu (see page 27).

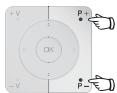


Select station directly with **numeric buttons**.

Or:



▲ ▼ Mark stations.



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

OK The marked station is called.



Red button: Back to the station 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.

If a favourite is selected, "favourites list" appears in the status display after the station name after changing stations.

Explanation of the icons following station names:

- T** Digital DVB-T station (terrestrial via antenna)
- C** Digital DVB-C station (via cable)
- TV** Coded station

Select video source

► The corresponding devices can be configured in the Connections menu or connection wizard (see page 36).

With the AV selection



Call **AV selection**.



◀ ▶ Select desired connection,

OK switch over.

Supplies a signal to the connected video source on the selected connection (playback), if this is now visible.

Daily operation

Adjusting the sound

Switching sound on/off



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.

Standard/personal values for picture/sound

The selection of standard/personal values for picture and sound settings is described on page 21.

Sound settings via the TV menu

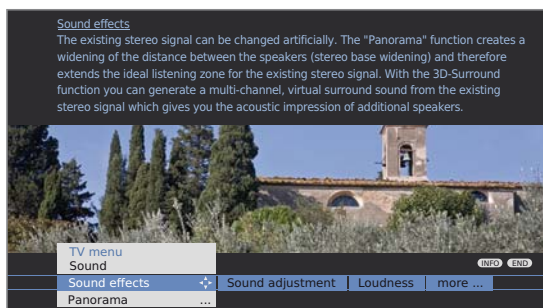
➡ In normal TV mode, without other displays.



Call **TV menu**.




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



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



➡ The sound menu can be accessed directly with the  button.

Explanations of the sound settings:

Sound effects Set sound effects Stereo, Panorama, 3D Surround. With **Panorama** the stereo sound then receives a virtual base enhancement. **3D Surround** converts a stereo signal into a virtual surround signal.

Sound adjustment Speech, Classical, Pop, Custom sound. You can set treble and bass for the Custom sound.

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

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

Loudspeaker sound Selection option Mono/Stereo or Sound 1 or Sound 2 for two-sound broadcasts.
Only available with 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.

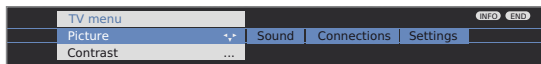
Balance Set stereo balance so that the volume impression is identical on the left and right.

Daily operation

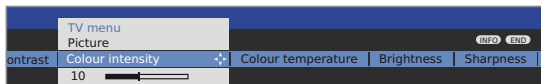
Adjusting the picture



Call **TV menu**.



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



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

Explanations of the picture settings:

Contrast Adjust contrast.

Colour intensity Adjust the colour.

Colour temperature Set warmer or colder tone for picture.

Brightness Adjust the brightness of the picture.

Sharpness Adjust the contour sharpness of the picture.

DNC Removes or reduces the signal noise in the picture.

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

Picture format Set picture format (see page 22).

Move picture up/down Move picture vertically (see page 22).

Auto format Automatic identification and setting of the picture format for 4:3 and 16:9 programmes.

Display Setting options for the signal at the PC IN input. Menu item Display can only be selected when the PC IN input is selected and a signal is present (see page 39).

Standard / personal values for picture adjustment



Call **TV menu**.

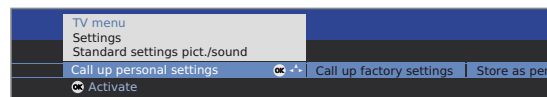


◀ ▶ Select **Settings**,
▼ go to the menu line below.

◀ ▶ Select **more ...**,
OK open more settings.



◀ ▶ Select **Standard settings pict./sound**,
▼ go to the menu line below.



◀ ▶ Select the desired setting,
OK activate the setting.

Explanations of the standard/personal values:

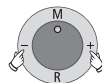
Call up personal settings The personally saved values for picture/sound are retrieved.

Call up factory settings The values for picture/sound are reset to the factory standard values.

Store as personal settings Some picture and sound settings can be saved as personal values.

Operation without remote control

Changing the station on the TV set



+ / - Station up/down.

Switching radio on or off or switching to radio

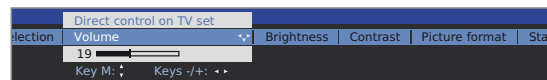


R Radio on or switch between TV and Radio.

Calling the TV menu on the set



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



- / + select function.

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

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

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

Daily operation





Button functions




Each operating mode of the TV set (TV, radio, Teletext, EPG, PIP) has its own functions for the coloured buttons.

Below, some of the function are listed which you need in TV mode for the daily handling of your TV set.

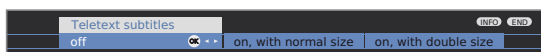
Functions of the coloured buttons in TV mode

➡ In normal TV mode without other displays.

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

   **Green button:** Access subtitles.
The operation of subtitles depends on the station selected.

Analogue stations:



◀ ▶ 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.





DVB stations:

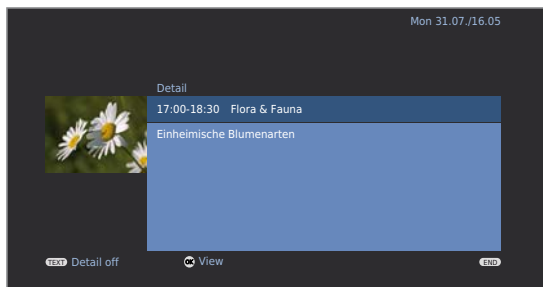
The selection of subtitles with the green button is only available if the DVB station broadcasts subtitles.

In this case, you can select the desired subtitles with ▲ ▼ and confirm with the **OK button**.

The DVB subtitles can also be selected via the status display (see page 23).

    **Yellow button:** Go to the last viewed station.
Use this button to quickly switch back and forth between two stations.

    **Blue button:** Display detailed info.
➡ Programme information is only available for digital sources (DVB).



Selecting the picture format



Picture format button: Open picture format menu and with



◀ ▶ select desired picture format.

Explanations of the picture formats:

➡ The setting options depend on the transmitted picture content.

16:10 Full screen presentation of 16:9 programmes only for Connect 22.

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

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

Panorama Full screen presentation of 4:3 programmes. Station logo and sub-titles remain visible.

Cinema Proportionally correct, full screen presentation of 4:3 programmes. Station logo and sub-titles are normally 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.

TV or PC image formats can be set, if a PC resolution (see table on page 38) is transmitted to a TV set via the PC-IN, HDMI1 or HDMI2 interfaces. The complete picture content is displayed for the PC formats. A small part of the picture is cut off with the TV formats. This could be necessary in order to hide possible disturbances at the edge of the picture, which originate from the fed signal.

It is additionally possible to select the image format 16:10 with the Connect 22 due to the 16:10 display format.

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** with the **arrow buttons** ▲ ▼.

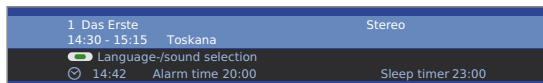
Daily operation

Status display

➡ In normal TV mode, without other displays.

END

END: Show/hide status display.



In the first two lines you see the number and name of the station as well as the symbol for DVB-T or DVB-C for DVB stations.

The title of the programme currently showing (if available) and the sound recognition are also displayed.

If the favourites list is active, the term (favourites list) appears after the station name.

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 sound identification:

Transmitted audio signal:

Mono	Mono audio transmission analogue
2-sound	Two sound broadcast (Sound1/Sound2) analogue
Stereo	Stereo sound transmission analogue

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.

- ➡ If you press one of the **coloured buttons** or the **TEXT button** while the status display is on, the appropriate selection menu is 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

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

TEXT

TEXT: DVB subtitles

The subtitles available depend on the programme being broadcast.

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**.

Other setting options for DVB stations

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

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

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

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

Managing stations

TV stations

Various options for managing stations are available via the TV menu. For example the description for TV stations. For radio stations the same applies, except that the Radio menu is called in Radio mode (see also page 32).

Search/update stations – Search wizard

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

- ➡ You have to repeat the initial installation (see page 12) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones.

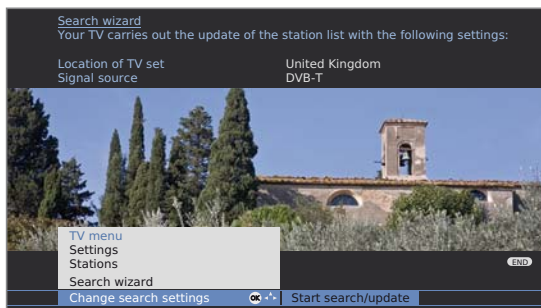


Call **TV menu**.



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

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



If you want to change these search settings:



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

If you agree with these settings:

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

Explanations of some search settings:

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

Signal source Here select Antenna/cable, DVB-T or DVB-C, depending on where you want to search for new stations.

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

DVB-T/C Encrypted You can state whether coded stations are to be searched for in the search/update. Select **yes** then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Ask your dealer which Smart Card you need to receive certain stations. Handling of the CA module is described on page 33.

DVB-T/C Search method If you want to run the station search independently of the channel grid, select **frequency search** for the search method (search can take a lot longer).

DVB-C Settings With the selection of set location the conventional settings will be preset. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider).



Red button: Abort current search/update.

Managing stations

Search/update station – manual search

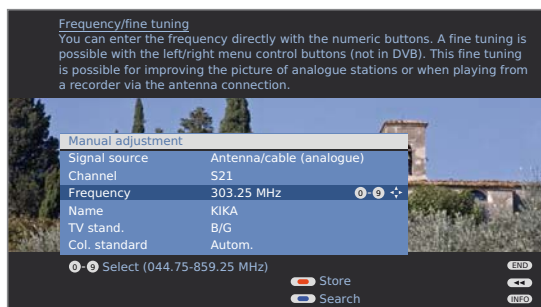
- ➡ Select analogue or digital TV mode before the manual search, according to which list should be searched.



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.

- ➡ Stations may be only saved which are not yet in the station list.
- ➡ Stations which are already in the station list are displayed with station number and name in grey. These stations can only be written over with the **red button**.

Explanations of some search settings:

Different settings are possible according to the chosen signal source (analogue/digital). Some settings have already been explained in the initial installation (see page 12 onwards).

Signal source	Selection of the source where you want to search. (Fixed preset for aerial/cable (analogue)).
Channel	Direct input of the channel.
Frequency	Direct input of the station frequency.
TV stand.	Input of the TV standard of the station, (B/G, I, L, D/K). Ask your dealer in this regard.
Col. standard	Input of the colour standard of the station, (PAL, SECAM, Autom.). Ask your dealer in this regard.

Managing stations

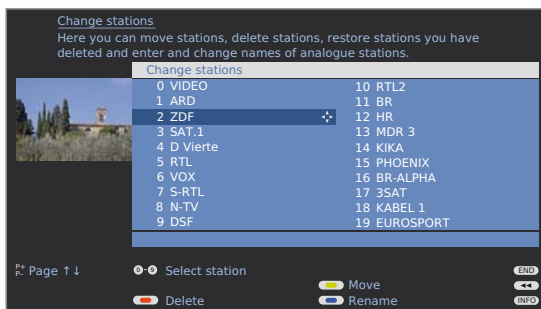
Change, delete, move, rename station

- ➡ **Change station** can also be called via the station list (page 18).
- ➡ You must choose the corresponding station source according to whether you want to change analogue or DVB stations. Transfer of analogue/digital stations with the TV button (see also page 18).



Call **TV menu**.

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



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



◀ ▶ ▲ ▼ or **numeric buttons**:

Select the appropriate station.
Scroll with **P+ / P-** if necessary.

Delete station



Red button: Starts **Delete** station.



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

Move station / Change order

- ➡ Stations with LCN cannot be re-sorted.



Yellow button: Starts **Move** station.



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

Rename station

- ➡ DVB stations which also transmit the station name cannot be renamed. In this case, the **Rename** function is hidden.



Blue button: Starts **Rename** station.

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



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



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



Green button: Switch upper/lower case letters.



OK to save new name.

Managing stations

Put together / change favourites list

Up to 99 stations can be put into the favourites list. You can adjust the favourites list according to your needs.

The favourites list has the advantage that you can store stations from different signal sources (analogue aerial/cable, DVB-T, DVB-C) in the order that you wish.

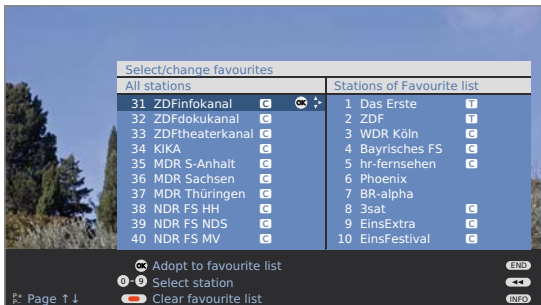


OK Open favourites list.
If the station list is displayed, press the **red button**.

➡ If the favourites list is still empty, open the **Select/change favourites** menu. Otherwise:



Yellow button: Change favourites.



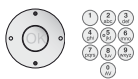
Add station to favourites list

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

➡ The relevant station list must be opened before changing the favourites list, according to whether analogue or DVB stations should be added to the favourites list (see page 18).



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



▲ ▼ Mark station or select station with the **numeric buttons** 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 favourites 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 selected 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 PIP mode is designed for AV-PIP. This means that an AV source (AV1, AVS, PC IN, HDMI1, HDMI2) is displayed in the main picture and a TV station is shown in the PIP image.

So, for example, you can use your PC image in the main picture and display a TV programme in the PIP. In addition, you can select whether the PC or TV sound is played.

Accessing PIP display

AV source selected:

If an AV source (e.g. PC IN) is selected, the PIP picture can be shown or hidden with the **PIP button**.

The PIP picture is shown as a small picture or as split screen depending on the setting (see page 29).

The station selection for the PIP picture is described in the right-hand column.

TV station selected:

If the PIP display is started with **PIP button** from the current TV mode, the current TV station will be transferred to the PIP picture.

An AV source (e.g. PC IN) can be selected in the main picture with the AV selection (see column on right).

Quitting PIP display





If you would like to quit the PIP display (main picture: AV source; PIP picture: TV station) and return to normal TV mode:

Hide PIP picture,

and enter the number of the station with the **numeric buttons** or select the station with **P+/P-** (see page 18).

Sound selection main picture/PIP

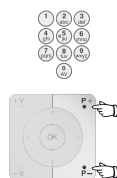
► PIP mode started,
if not, press **PIP button**.

    **Green button:** Sound main picture/PIP

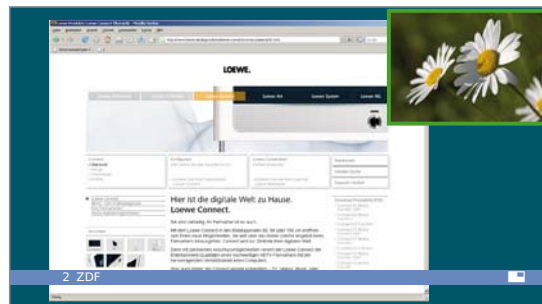
A green frame shows that the sound for the PIP can be heard. A white frame means that the sound for the main picture (AV source) can be heard.

Select station for PIP

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



Enter the number of the station with the **numeric buttons** or select the station with **P+/P-** (see page 18).

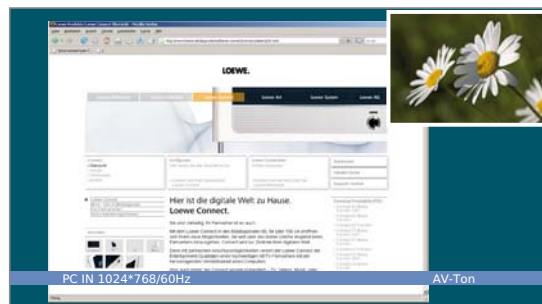


Select AV source for the main picture

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







0/AV button: Open AV selection and select AV source (see page 19).



PIP as freeze picture

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

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

Picture in Picture

Configure Picture in Picture (PIP) mode

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

Your TV set distinguishes between two PIP displays:

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

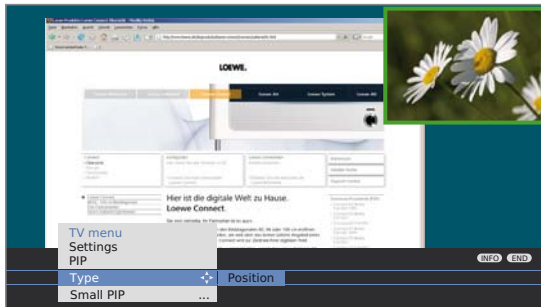
Split Screen In this case screen is divided in the middle and the additional PIP image is shown on the right side of the screen. Both images are compressed horizontally and each gets half of the screen.

Start PIP menu

- ➔ PIP mode started, if not, press **PIP button**.

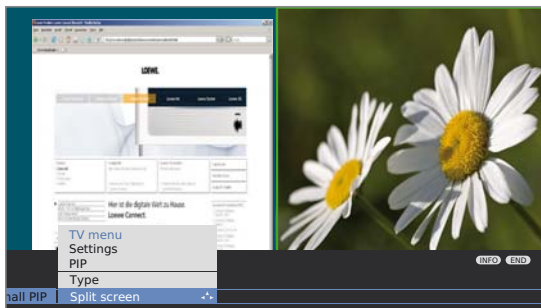


Call PIP menu.



Switch to Small PIP / Split screen

- ➔ PIP menu open.



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

Change position of the PIP small picture

- ➔ Nothing else is displayed on the screen apart from the status line.
- ➔ Small picture is set as the PIP type.



- ▲ ▼ ◀ ▶ 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.

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 and memorised.

⇒ EPG is only available for digital sources (DVB).

Starting and ending EPG

⇒ A DVB station is selected.

EPG

Switch EPG on / off.



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



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

Switching and memorizing with the programme list

⇒ In the programme list first all currently running programmes are listed.

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



▼ ▲ Select station.
OK View / Memorise.

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

Memorise The programme has not started yet and is memorised. A appears in front of the programme. At the beginning of the programme, the TV set asks whether this programme should be switched over.

Adjusting the programme list

⇒ The selection is at the top of the specifications, if not, press the **blue button**.



▼ ▲ Select **Date, Time, Stations** or **Topics**.
◀ ▶ Select defaults within the respective line.



Example If you are searching for the next news, select today's date, **17:00** for example for the time, **all** for station and **News** for topics. Then you get a list of all news programmes from 17.00 h onwards in the programme list below it.

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

Paging through the programme list



P+ / P- Page backwards / forwards.

In the entries for **Date** and **Time**, you will see changes in time as well as in date when paging.

Calling additional information about the programmes

⇒ Brief information about some of the 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.

Teletext

Teletext





Your TV set supports the two operating systems TOP Text and FLOF. Up to 1,000 pages are stored so that you have quick access.

Starting and ending Teletext

 Switch Teletext on / off.





Page selection with the coloured buttons

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

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

Additional page selection possibilities

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




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

3rd possibility:
 ➔ The page consists of several sub-pages indicated by the selection option on the last line.



◀ ▶ Page through sub-pages.

Teletext page displays

-  **0 AV:** Stop self changing pages.
-  **9:** Enlarge page (press several times).
-  **PIP button:** Show / hide TV picture.



Teletext settings

The Teletext character set can be changed if necessary. This is necessary for Turkish Teletext, for example.

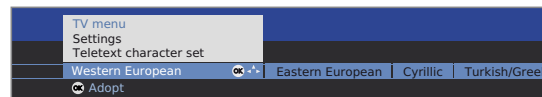
➔ In normal TV mode, without another display.



Call **TV menu**.



- ◀ ▶ Select **Settings**,
 ▼ go to the menu line below.
- ◀ ▶ Select **more ...**,
OK open more settings.
- ◀ ▶ Select **Teletext character set**,
 ▼ go to the menu line below.



- ◀ ▶ Select desired character set,
OK adopt character set.

Radio

Radio mode

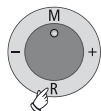
Like the TV mode, the radio mode is divided into analogue and digital reception. Radio stations can be received in analogue form with the FM tuner and digitally with the DVB-T/C tuner.

If analogue and digital radio stations are received and saved during the initial installation, two separate station overviews will be created.

Radio mode on

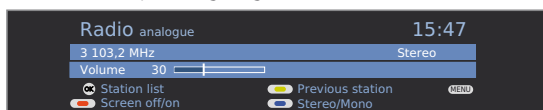


RADIO button on the remote control.



Or:

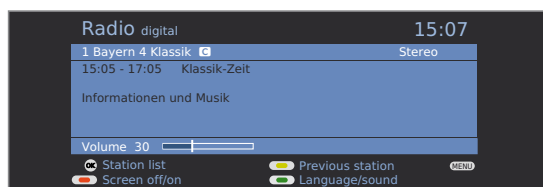
R on the operating ring on the TV set.



Switching over radio analogue/digital



RADIO button on the remote control.



You will see an information window for the currently set station. The menu item Language/sound selection only appears when there is a corresponding selection transmitted by the DVB radio station.

The name of the DVB radio station (digital radio) appears after the programme assignment number. For FM radio (analogue radio), only the frequency of the radio station is displayed. You can alter the name of the analogue radio stations manually. Renaming the analogue radio stations is similar to the procedure in TV mode (see page 26).

Station switching



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

Or:

+ / - on the TV set operating ring.

Or:



OK Call **station list**.

⇒ The selection of the stations is the same as the procedure in TV mode (see page 18).

Setting the volume



V+/V- Volume louder / quieter.

Sound settings



Call the **sound menu**.

Settings as in 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 or **OK button**.

Radio menu

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

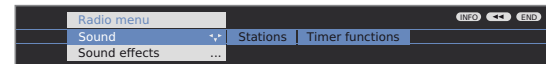
The settings are made as described in TV mode.

Call radio menu

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



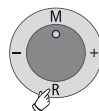
Call the **Radio menu**.



Switch off radio mode



TV button on the remote control.



Or:

R on the operating ring on the TV set.

Conditional Access module (CA module)

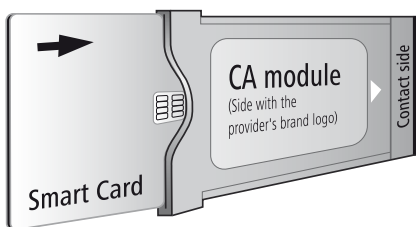
In order to be able to receive digital stations, a Conditional Access module (CA module) and a Smart Card must be inserted in the CI slot of your TV set (see pages 5 and 6).

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 power switch.

Open cover on the rear of the set.



Insert the CA module into the CI slot as far as possible, with the contact side first.

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.

Close the cover again.

Searching for encrypted stations

The search wizard must only be started when the setting possibility **no** has been selected for the search for coded stations in first-time start-up or no CA module has been inserted.

MENU



Call **TV menu**.

Left Right Select **Settings**,
Down go to the menu line below.

Left Right Select **Stations**,
Down go to the menu line below.

Left Right Select **Search wizard**,
Down go to the menu line below.

Left Right Select **Change search settings**,
OK wizard guides you through the search settings.

Description of the search settings, see page 24.

Calling CA module information

The menu can only be selected for digital stations and when a CA module is plugged in.

MENU



Call **TV menu**.

Left Right Select **Settings**,
Down go to the menu line below.

Left Right Select **more ...**,
OK open more settings.

Left Right Select **CA module: xxx**
(xxx corresponds to the CA module provider),
OK call information.

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

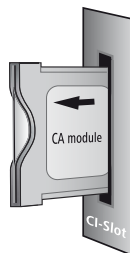
Removing the CA module

Switch off the TV set's power switch.

Open cover on the rear of the set.

Pull the CA module out of the CI slot.

Close the cover again.



Other settings

Parental lock

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

Defining the access code (PIN)



Call **TV menu**.



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

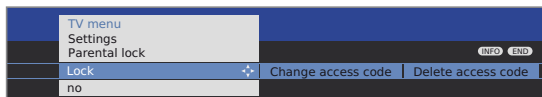


- ◀ ▶ Select **Parental lock**,
▼ go to the menu line below.
- Define a four digit access code (PIN) the first time you open it. The numbers appear in plain text. Note the access code (PIN) well.



OK Confirm the access code (PIN).

The **Parental lock** menu is opened



- ◀ ▶ Select the desired setting.

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

Explanations of setting possibilities in the Parental lock menu:

Lock immediately	The TV set is locked immediately on exiting the menu. Programmes of any kind can then only be watched after entering the PIN. The lock remains active until switching off in the menu.
Change access code	You can change your PIN at any time. Enter the new PIN in place of the old one.
Delete access code	You can delete your entered PIN at any time.

Code number

The code number cancels all entered PINs. It can be used for example if you have forgotten your PIN. You will find a note about the code number on page 44. Remove this from the manual and keep it in a safe place.

Timer functions

This menu offers you convenient alarm services. Programmed alarms are also active when the TV set has been switched off to standby. If the TV set switches on from the standby mode by alarm, a screen message appears. If this is not confirmed within 5 minutes with the **OK button**, the TV switches back off automatically for safety reasons.

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

Call Timer functions



Call **TV menu**.



- ◀ ▶ Select **Settings**,
▼ go to the menu line below.
- ◀ ▶ Select **Timer functions**,
▼ go to the menu line below.
- ◀ ▶ Select the desired setting.

Explanations of setting possibilities in the Timer functions menu:

Switch off today only	The set switches to the standby mode automatically at the specified time. If a time is specified which has already passed on the same day, the set switches off at this time the next day.
Switch off daily	The set regularly switches to the standby mode automatically every day at the specified time.
One-time reminder	The set alerts you once today at the specified time. If a time was specified which has already passed on the same day, the alarm is saved for the next day.
Wake up daily	The set alerts you at the specified time each day.
Wake up with	Specify whether the TV set switches on in the event of an alarm from the standby mode in TV or radio mode with the respectively last active station.
Wake up signal volume	Set the desired volume of the alarm tone. The alarm tone is emitted as a continuous tone as a guide during the setting.

Other settings

Language

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

Call language

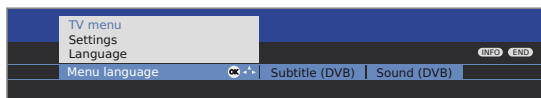
MENU

Call **TV menu**.



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

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



◀ ▶ Select the desired setting.

Explanations of setting possibilities in the Language menu:

Menu language You can change the menu language here. The menu language can be changed with the index (siehe Seite 16).

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

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

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

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

Time and date

If, after turning on the TV set, you receive a station with VPS recognition, the time and date will be detected automatically. The date may have to be entered manually for some stations.

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

Call time and date

MENU

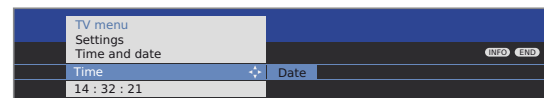
Call **TV menu**.



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

◀ ▶ Select **more ...**,
OK open more settings.

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



◀ ▶ Select the desired setting.

Explanations of setting possibilities in the Time and date menu:

Time Enter the time (00:00 to 23:59) with the numeric buttons of the remote control.

Date Enter the date (day.month.year) with the numeric buttons on the remote control.

Operating additional equipment

Connections / Connection wizard

With the connections menu or the connection wizard you can connect additional equipment to the TV set optimally and configure the additional equipment accordingly.

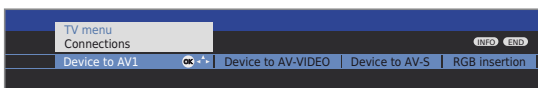
Connection wizard routine



Call **TV menu**.

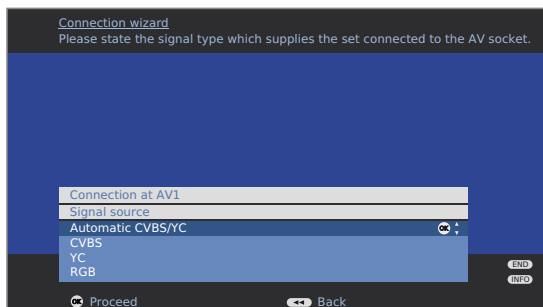


- ◀ ▶ Select **Connections**,
- ▼ go to the menu line below.
- ◀ ▶ Select **Device at AV1** or **AV-VIDEO** or **AV-S**.



OK Open wizard.

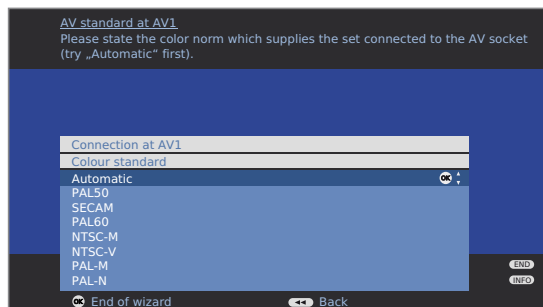
Signal source selection
(only for AV1)



- ▲ ▼ Select the signal source of the set to AV1 to which you would like to connect.
Normally you should leave the setting on **Automatic CVBS/YC** (e.g. for DVD player/recorder); otherwise select the suitable signal source.

OK Proceed.

Colour standard selection



- ▲ ▼ Select the colour standard of the set that you would like to connect.
Normally you should leave the setting on automatic; otherwise select the suitable colour standard.

OK exit connection wizard.

Now connect your set to the corresponding TV set connections.

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

Explanations of setting possibilities in the Connections menu:

Device at AV1 Configure settings for an additional device at the **AV1** interface with the connection wizard.

Device at AV-VIDEO Configure settings for an additional device at the **AV-VIDEO** interface with the connection wizard.

Device at AV-S Configure settings for an additional device at the **AV-S** interface with the connection wizard.

RGB insertion If this function is activated, pictures from RGB-capable AV equipment connected to AV-VIDEO are shown immediately on all station places.

Allow switching voltage If this function is activated and you switch an AV device (not at AV-S) with switching voltage to playback, its picture and sound are played immediately at all TV station places.

Operating additional equipment

Devices to the connections AV1/AV-VIDEO/AV-S

Additional equipment such as DVD players, video and DVD recorders etc. can be connected to the TV set at the Euro-AV socket **AV1** (see pages 5 and 6).

The AV input **AV-VIDEO** or **AV-S** (see pages 5 and 6) offers the possibility of connecting a digital camera or a camcorder, for example.

- ➡ All devices for the AV inputs **AV1**, **AV-VIDEO** and **AV-S** must be configured in in the connection wizard (see page 36 onwards).

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

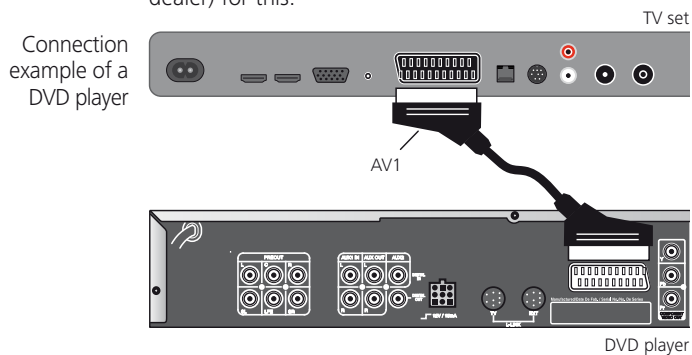
Connecting a DVD player to AV1

- ➡ DVD player is configured in the connection wizard.

Switch off all equipment before connecting.

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

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



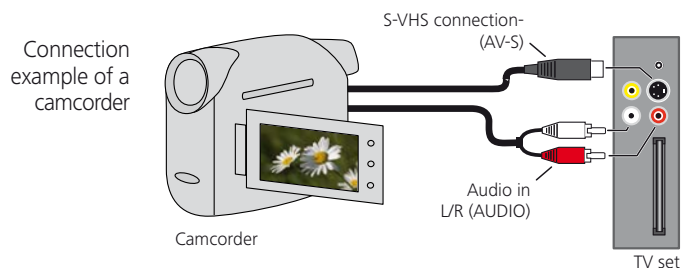
Connect camcorder/camera to AV-VIDEO/AV-S

- ➡ Camcorder/camera is configured in the connection wizard.

Switch off all equipment before connecting.

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

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



Playback from AV device



Call **AV selection**.



◀ ▶ Select **AV-S** for S-VHS and **AV-VIDEO** for FBAS, **OK** switch over.

Start playback on the connected device.

Playback from AV device



Call **AV selection**.



◀ ▶ Select **AV1**, **OK** switch over.

Start playback on the connected device.

Operating additional equipment

Devices to the HDMI connections

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

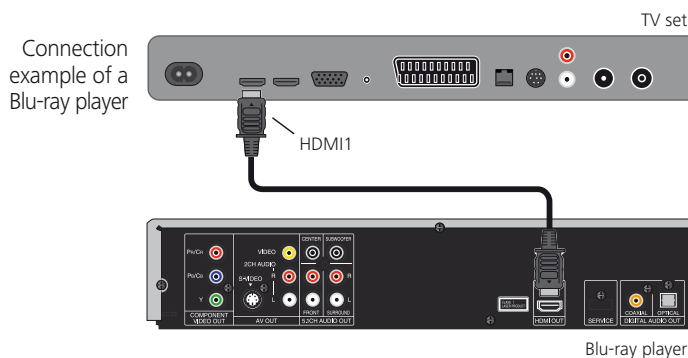
The digital video and audio data are transmitted without data compression digitally and therefore lose none of their quality.

Connecting the device

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

Switch off all equipment before connecting.

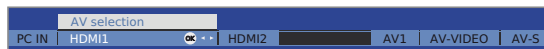
Connect the device with an HDMI cable (type A, 19-wire) to the **HDMI1** or **HDMI2** socket of the TV set.



Playback from the device



Call **AV selection**.



Select **HDMI1** or **HDMI2** socket, **OK** switch over.

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

Devices to the PC IN connection

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

- When connecting a PC or other device to the PC IN socket of the TV set, set one of the following PC or video resolutions on the PC/device first.
- The resolutions 1369 x 768 (WXGA) for Connect 26 and 1680 x 1050 (WSXGA+) for Connect 22 are ideal, since they can be displayed 1:1 pixel for pixel on the corresponding device. All other resolutions must be scaled up or down as appropriate.

PC resolution	Freq.	Name	recommended TV picture format
640 x 480	60 Hz	(VGA)	4:3
720 x 400	60 Hz	(WVGA)	16:9
800 x 600	60 Hz	(SVGA)	4:3
1024 x 768	60 Hz	(XGA)	4:3
1280 x 768	60 Hz	(WXGA)	16:9
1280 x 1024	60 Hz	(SXGA)	4:3
1360 x 768	60 Hz	(WXGA)	16:9
1680 x 1050	60 Hz	(WSXGA+)	16:9 / 16:10 (Connect 22)

Video resolution	Name	recommended TV picture format
640 x 480	NTSC	4:3
720 x 480	NTSC	4:3
720 x 576	PAL	4:3
768 x 576	PAL	4:3
960 x 720	HDTV 720	4:3
1280 x 720	HDTV 720	16:9
1440 x 1080	HDTV 1080	4:3
1920 x 1080	HDTV 1080	16:9

Connecting the device

Switch off all equipment before connecting.

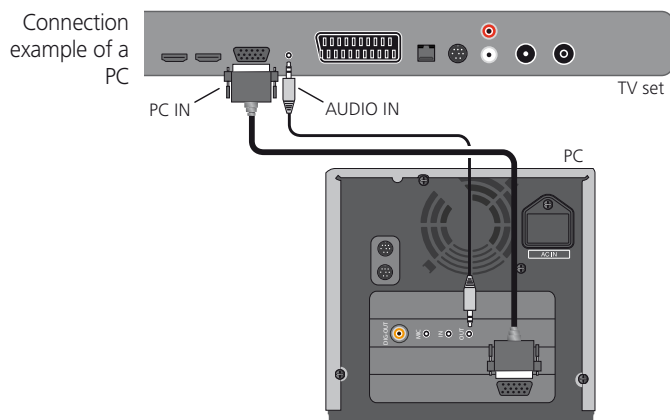
Connect the PC to the TV set's **PC IN** socket with a VGA cable.

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

- It is possible to connect devices with a connection to the PC IN socket with an adapter cable and supply an analogue HD signal.

continued on next page →

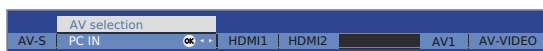
Operating additional equipment



Playback from the device



Call **AV selection**.



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

Adjust display

You can set the parameters of the PC IN signal here.

⇒ The menu item **Display** can only be selected when the PC IN input is selected and a signal is present.



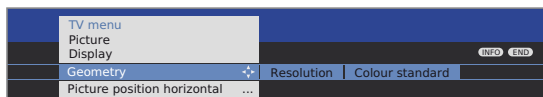
Call **TV menu**.



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

◀ ▶ Select **more ...**,
OK open more settings.

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



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

◀ ▶ Make settings.

Explanations of setting possibilities in the Display menu:

- ⇒ The menu item **Geometry** can only be selected when a PC resolution is present at the PC IN input (see table 38). The menu item cannot be selected with a video resolution.
- ⇒ The menu item Resolution can only be selected when a resolution with 480 or 768 lines is present at the PC IN input. The menu item cannot be selected with any other resolutions.

Geometry:

Picture This permits you to move the picture (horizontally and vertically), so that the picture of the device connected to the PC IN input is shown centrally on the TV screen.

horizontal/vertical

Phase position You can therefore correct any flickering or hissing of the device connected to the "PC IN" input.

Pixel clock With this you can gradually adjust the picture widthways to ensure a "sharp" picture.

Adjust automatically Here you can start an automatic fine adjustment. If the automatic adjustment does not give the desired results, you can carry out a manual adjustment with the menu items Picture position, Dot clock and Phasing.

Reset to factory settings With this you can set all geometry values of the device connected to the "PC IN" input back to their preset factory settings

Resolution

640x480
720x480 (480p)
1024x768
1280x768
1360x768

If a resolution with 480 or 768 lines is displayed from the connected device, you can select the suitable resolution here, in order to ensure optimal picture display. For any other resolutions than the ones specified here, this menu item cannot be selected.

Colour standard:

RGB If the picture is not displaying colours correctly (e.g. green), you can switch to the correct colour standard (RGB or YUV) here. As a rule, "RGB" for a PC and "YUV" otherwise.

YUV

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.

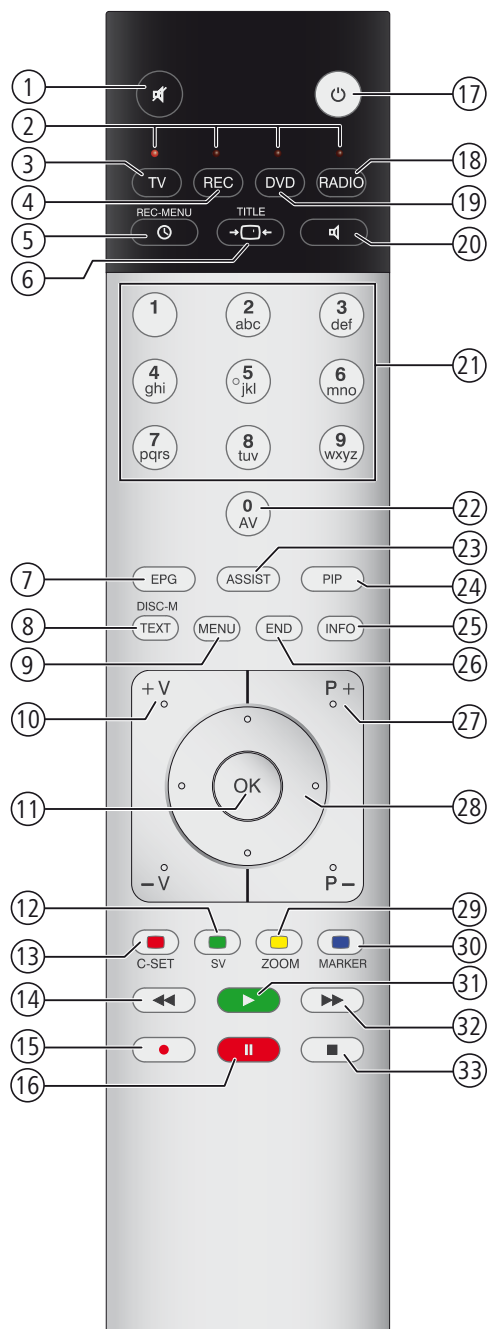
As long as a button is pressed, the display of the selected operating mode lights up (TV – REC – DVD – RADIO). This allows you to check which operating mode the remote control is set to every time you press a button.

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 p q r s *
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; 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/right
- 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
- 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

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 .
General problems when connecting external devices via an AV input .	a) The AV input selected with the AV selection does not correspond to the actual connection of the external device. b) The signal source is set incorrectly. c) The colour standard is set incorrectly.	a) Check the AV connection to which the device is connected and select this in the AV selection. b) Set signal source correctly (page 36). c) Set colour standard correctly (page 36). If the signal source or colour standard is set to " automatic ", this can lead to false detections with non-standard signals. In this case, signal source and colour standard must be set in accordance with the specifications in the operating instructions.
With Teletext various character sets are displayed incorrectly.	The wrong character set has been set in the TV menu .	Set the correct character set: Select TV menu → Settings → more ... → Teletext Character set → Western European or the relevant character set.

Technical data

General data

Type	Connect 22 	Connect 26 
Article number	68412xxx	68416xxx
Dimensions for device without stand (W x H x D) in cm Dimensions for device with stand (W x H x D) in cm	54,6 x 39,4 x 7,6 54,6 x 45,0 x 21,0	68,7 x 45,6 x 9,4 68,7 x 51,0 x 24,0
Weight for device without stand (approx.) in kg Weight for device with stand (approx.) in kg	6,8 8,3	9,7 11,2
Display technology	HD-LCD technology	HD-LCD technology
Picture diagonal (in cm) / picture format	56 / 16:10	66 / 16:9
Resolution (in pixels) / Frame rate	1680 x 1050 / 50 Hz	1366 x 768 / 50 Hz
Contrast ratio (static)	2,000:1	1,000:1
Viewing angle (horizontal/vertical)	160° / 160°	178° / 178°
Power consumption (EN 62087:2009) Power consumption "On" (W) Power consumption in standby mode (W) Power consumption when the set is turned off (W)	40 0,9 0	75 / 80 (Media) 0,9 0
Ambient temperature (Celsius)	5° – 35°	
Relative humidity (non-condensing)	20 – 80%	
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)	

Electrical data

Chassis designation: L 20x0
 Power supply: 220 V – 240 V/50–60 Hz
 TV-Tuner: VHF/UHF/cable/hyperband
 Range: 45 MHz to 860 MHz
 Station storage locations incl. AV and radio: 4000
 TV standards (Tuner): B/G, I, L, D/K
 Colour standard: SECAM, PAL, NTSC, NTSC-V, PAL-60, PAL-M, PAL-N
 Sound standard Mono/Stereo/2-Ton/Nicam B/G, I, L
 Audio output power (music/sine): 2 x 10 W / 2 x 5 W
 Teletext: TOP/FLOF
 Page memory: 1000
 FM tuner (VHF): 87.5 – 108 MHz

Jack 3.5 mm Headphones 32-2000 ohm
 Mini-DIN (AVS) Video IN: Y/C (S-VHS/Hi 8)
 CVBS (VHS/8 mm)
 Cinch (yellow) Video IN: CVBS (VHS/8 mm)
 Cinch (white/red) Audio IN: L (white) / R (red)
 IEC socket 75 Ohm: Antenna/cable/DVB-T/C
 IEC plug 75 Ohm: FM radio
 Jack 3.5 mm AUDIO IN: L/R
 Cinch (white/red) AUDIO OUT: L (white) / R (red)
 SUB-D PC IN: PC/STB video signal
 RJ12 RS-232C: Serial interface
 Mini-DIN SERVICE: Service
 2 x HDMI Digital Video/Audio IN
 Type A 19pole Standard 1.2a: Digital video and audio
 CI-Slot Common Interface: Slot for CA module
 USB USB 2.0: USB interface ⁽¹⁾
 Ethernet (8P8C) LAN: Network interface ⁽¹⁾
 SMA WLAN antenna: Connection additional antenna ⁽¹⁾

Connections (max. equipment)

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

⁽¹⁾ Connections only on equipment with Network Mediaplayer.

Accessories

Setup possibilities



Table Stand



Floor Stand C 22/26



Wall Mount Flex 26 S

Connect 26

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

Connect 22

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

Accessories

The following accessories are obtainable from your Loewe dealer.

Loewe DVD Recorder:

The DVD recorders from Loewe feature forms and colours which match the Loewe TV sets, an adapted user operation and technology.

Loewe Blu-ray Player:

With the Loewe Blu-ray Player "BluTech Vision" you are ideally equipped for the next generation of Home Entertainment.

Because this technology, as a successor to the DVD format, delivers the best in picture and sound quality.

Subject to availability.

Instruction for wall installation

Please note the following points when using a wall holder:

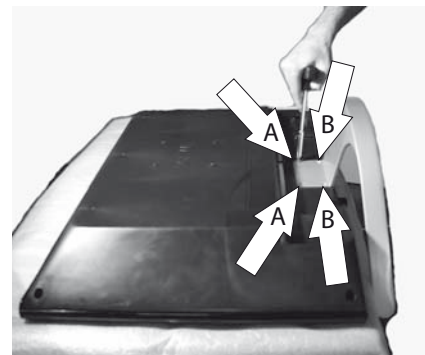
See the disassembly sketch. Place the TV set on a soft underlay on a table as shown.


Remove the four screws. Remove the base.

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

- All four screws (A and B) in Connect 22.
- The bottom two screws (B) in Connect 26.

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



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

Glossary

A

Active antenna: An antenna with its own power supply or amplification which can improve the reception in areas with a poor coverage.

AV socket: Socket for audio and video signals.

AV sources: Audio/video source.

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

B

Band: Name for a transmission range.

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.

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

D

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

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).

E

Eco standard: Energy-efficient setting. The emphasis for home use is on low energy consumption.

Electronic Programme Guide: See **EPG**.

Energy efficiency: menu item in which the value for the contrast (and thus the brightness of the background lighting) is adapted depending on the presetting. The settings **Eco Standard**, **Premium mode** and **Shop mode** are available.

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

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

F

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

H

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

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

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

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

L

LAN: Abbreviation for Local Area Network. Mainly used as a designation for networks with wiring (Ethernet).

LCD: Liquid Crystal Display.

LCN: Logical Channel Numbers. In stations with LCN, the channel location number belonging to the station is also transmitted by the provider. The stations are sorted according to these channel location numbers.

M

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.

Glossary

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

NTSC: American colour standard.

P

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

PAL: European standard.

PCM: Pulse Code Modulation for digital sound.

Picture in Picture: See **PIP**.

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

Pixel: Denotes both the smallest unit of a digital graphic grid and its display on a screen with grid control.

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

Premium mode: Energy-efficient setting. This mode optimises the settings to a brighter environment at a higher energy consumption.

R

RGB: Colour signals red, green and blue.

S

Satellite tuner: Receiver for satellite programmes.

SDTV: Standard Definition TeleVision.

SECAM: French standard.

Set-Top-Box: Set-Top-Box (STB for short) refers to a device in entertainment electronics which is connected to another device, usually a TV set, and offers the user additional functional options.

Shop mode: Energy-efficient setting. The picture settings are aligned to operation in the presentation room.

Signal strength: Strength of the received antenna signal.

Signal quality: Quality of the incoming antenna signal.

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

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

Stereo: Dual-channel audio.

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

Symbol rate: Describes the transmission speed for data transmission.

T

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

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

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

Tuner: Another term for receiver.

U

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

V

VGA: PC interface for connecting a monitor.

VPS: The Video Programming System (VPS) is a signal which transmits some (but not all) TV stations in the blanking gap. The signal is used by video and DVD recorders when recording programmes to react to delays in start time, programme changes and excesses of the planned programme time.

W

WLAN: Abbreviation for Wireless Local Area Network. Also referred to in brief as wireless network.

Y

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

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