

# Operating instructions

TV

■ Individual Edition

**LOEWE.**

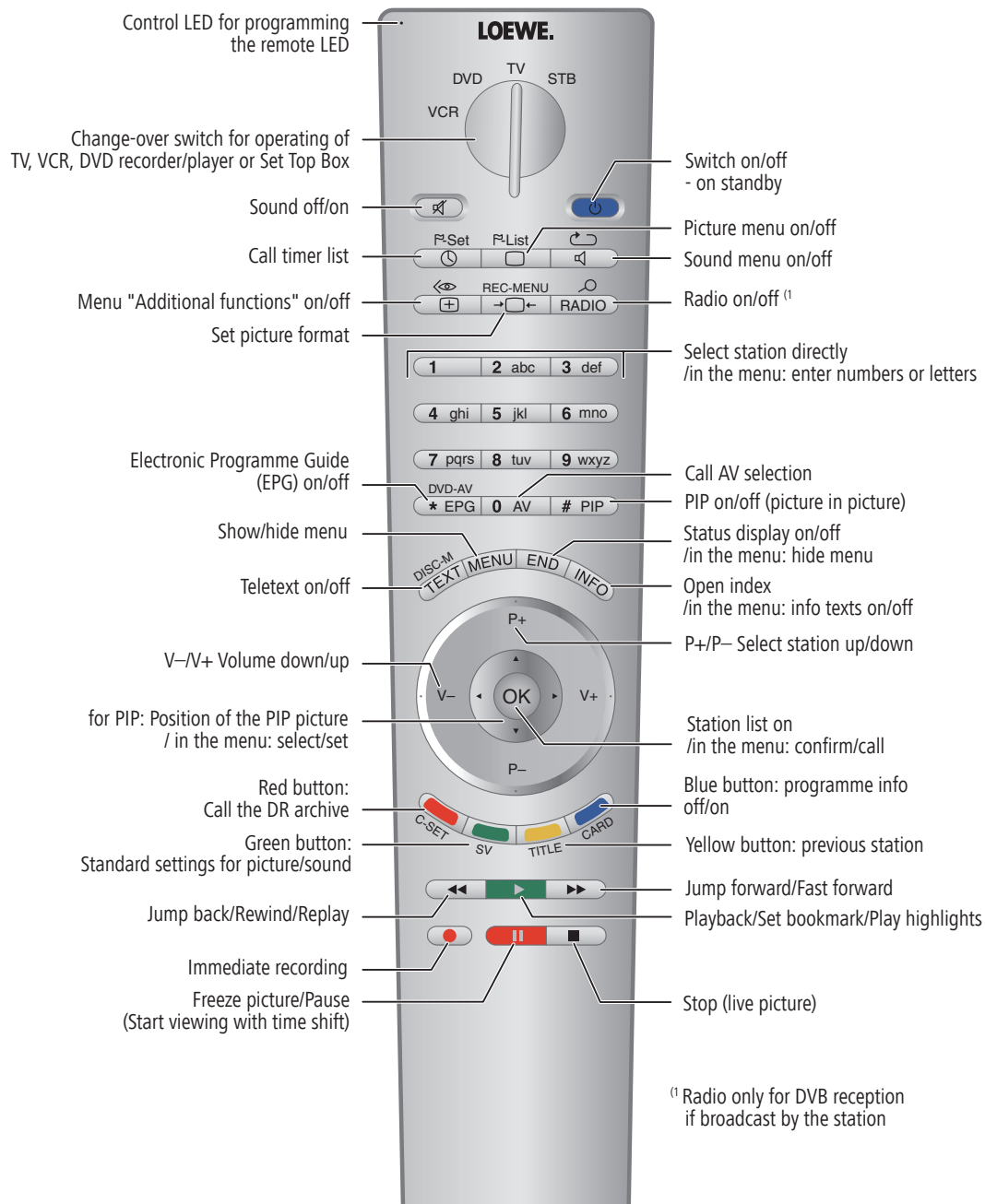
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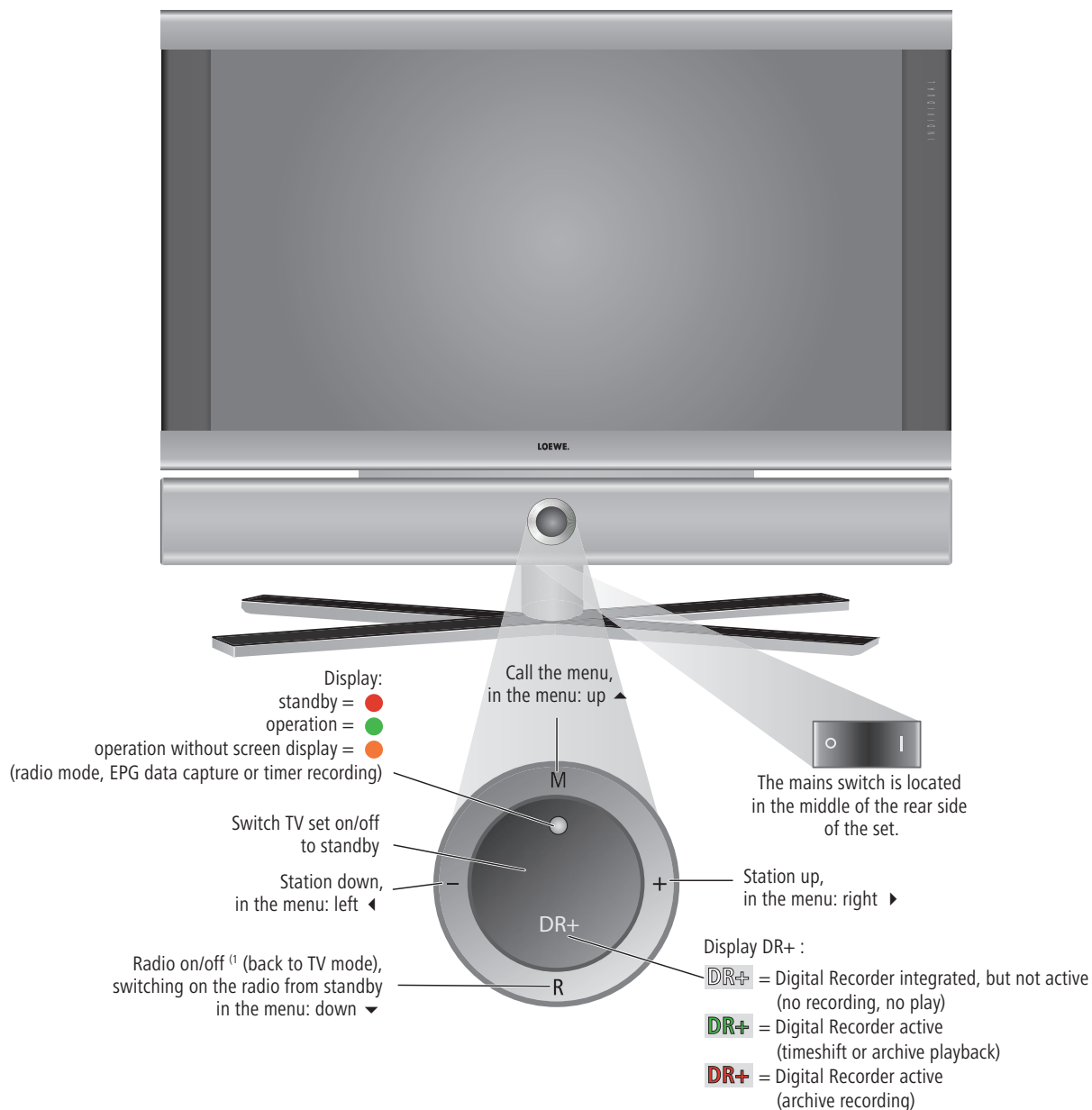
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# Remote control - TV functions

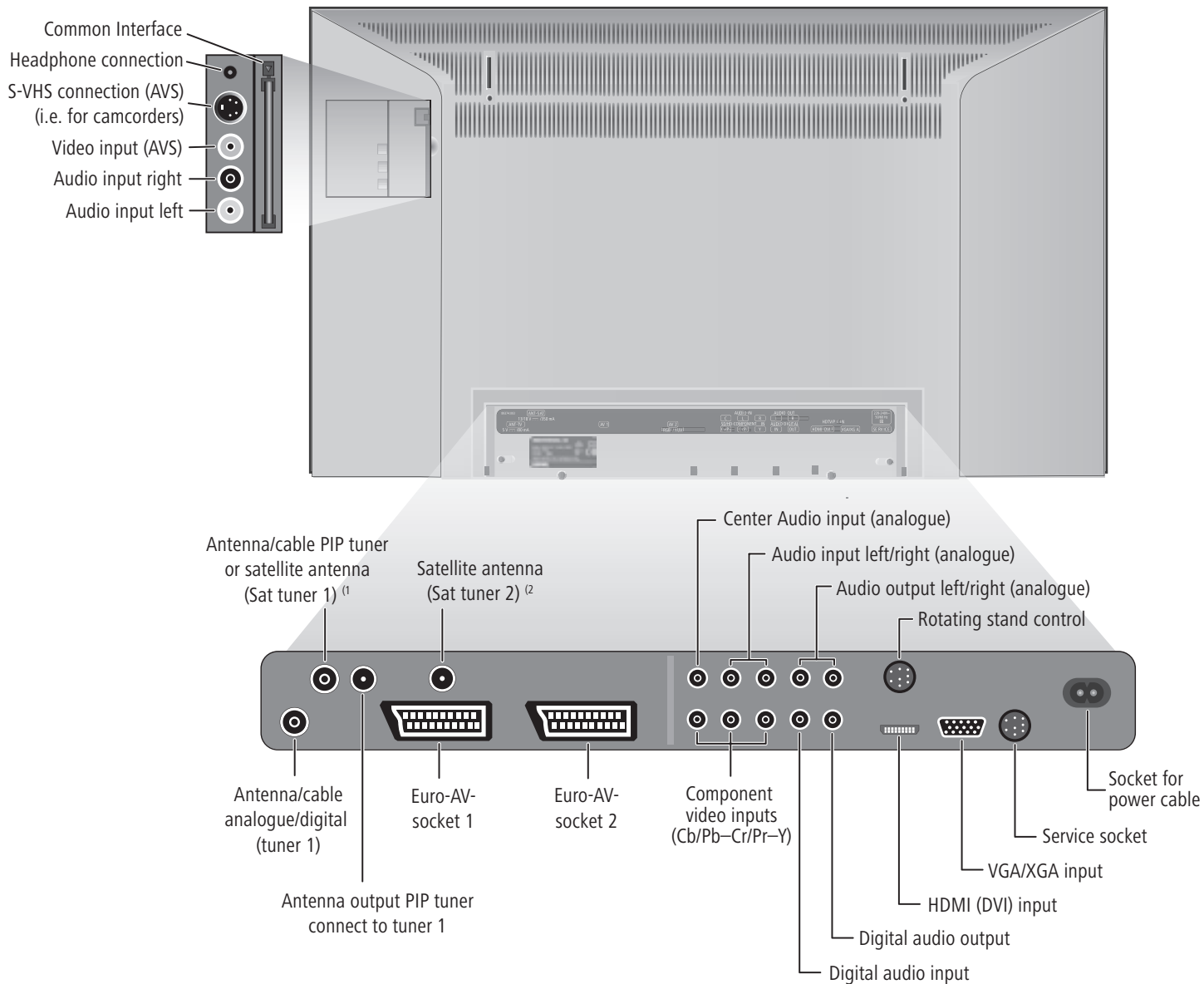


# Control unit



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

# Connections to rear panel



<sup>(1)</sup> Digital satellite tuner can be retrofitted.

<sup>(2)</sup> Digital twin satellite tuner can be retrofitted.

# Welcome

## Thank you!

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

Your new Individual Edition TV set from the limited special edition "crystallized with Swarovski" is ideally equipped for the TV standard of the future "HDTV" (High Definition Television). With its high-resolution screen and the future-proof digital interfaces HDMI, you have the option to view HD content with excellent picture quality. It therefore carries the European quality mark "HD ready".

Digital TV is steadily spreading via terrestrial reception, in the cable network and via satellite. Loewe supplies sets equipped with DVB-T and DVB-C. A digital satellite tuner (DVB-S) can be retrofitted. The DVB integrated within the TV set is operated via the TV set menus using the remote control.

We have designed this TV set so that it is easy to operate by using menus. Information about settings in menus is shown automatically; this enables you to understand the context quickly.

You will find the answers to many of your technical queries in the index of your TV. If you want to operate the TV, you can access functions directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual only explains the most important operating steps.

## Integrated features

The maximum equipment is described in these operating instructions. Menu contents may differ from the ones shown, depending on how your TV is equipped. You can display how your set is equipped in the "Integrated features" index (press the **INFO** button in the TV mode if no menu is displayed; the "Integrated features" menu item is also displayed in the index before the initial letter A).

## Scope of delivery

- LCD-TFT TV set
- Mains Cable
- RC3 remote control with 2 batteries
- Motorized rotating table stand mounted
- Marketing and service card
- Fabric hose
- 3 binders
- Screen cleaner set
- These operating instructions

## Transporting

Only transport the unit in an upright position. Hold the set by the top and bottom edges of the housing. The LCD screen is made of glass and/or plastic and may break if not handled carefully. Should the LCD screen become damaged or should the liquid crystal begin to leak, then it is imperative you wear rubber gloves when removing the set. Should the liquid come in contact with your skin, thoroughly rinse with water immediately.

## Installation options

### As a motorized rotating desktop unit

Use the stand included in delivery.

### As a wall-mounted unit

- Wall Holder WM54, Loewe order no. 65498A00.

### As a free-standing unit

- Screen Floor Stand, Loewe order no. 65496B00.
- Screen Paravent, Loewe order no. 65494B00.

### As an individual mounting solution

- Screen Lift, Loewe order no. 65486B00.
- Screen Ceiling Mount, Loewe order no. 65492B00.

# Welcome

## Note on the LCD screen

The TV set with an LCD screen you have purchased meets the highest quality requirements and has been tested for pixel errors. Despite the utmost caution in production of the displays, it cannot be totally ruled out that some of the pixels might be defective for technological reasons. Please understand that such effects cannot be considered a unit defect as defined by the warranty as long as they are within the limits specified by the standard.

## Cleaning

Use only a soft, clean, damp cloth to clean the TV set, the screen and remote control (do not use any caustic or abrasive cleaning agents).  
Use the cleaning cloth and cleaning agent included for this purpose.

Note: The front screen may only be removed by a specialist dealer even in case of dirt on the inside.

## Disposal

### Packing and box

You have chosen a long lasting technical product of very high quality. We have paid a fee to authorised recyclers who will collect the packing from your dealer for disposal, pursuant to domestic regulations. Nevertheless, we recommend you to keep the original box and packing material for optimum protection if you have to transport the set.

### The set



Attention: The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. Hence, all used electronic devices are to be disposed of separately. Please do not dispose of this set in the normal household rubbish.

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. You can find out more about recycling (also for countries outside the EU) from your local government.

## Remove the protective foils

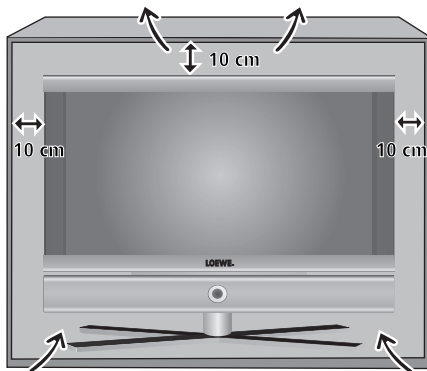
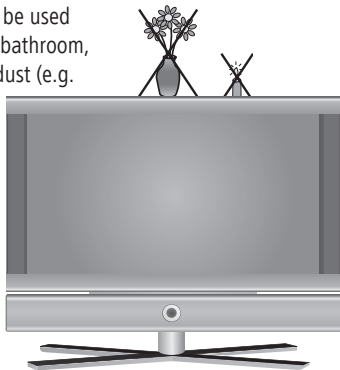
Pull the protective foils slowly and carefully off the inlays (see fig.).



# For your safety

**For your safety and to avoid unnecessary damage to your TV set, please read and observe the following safety instructions:**

- This TV set is designed exclusively for reception and reproduction of video and audio signals.
- This equipment is designed for domestic and office environments and must not be used in rooms with high humidity (e.g. bathroom, sauna) or high concentrations of dust (e.g. workshops). If the equipment is used in the open air, ensure that it is protected against moisture (rain, drips, splashes, sprayed water or dew). Do not place any containers filled with liquids or lit candles on top of the TV.  
High levels of moisture and concentrations of dust cause leakage currents in the equipment, which can lead to danger of electric shock or fire.  
The manufacturer's warranty is only valid for use in the specified permissible environment.
- If you have moved the TV set out of the cold into a warm environment, leave it standing for about an hour since condensation may form.
- 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. Incorrect voltages can damage the equipment.
- Like all electronic equipment, your TV needs air for cooling. Obstruction of the air circulation can cause fires. Therefore the air vents on the back must always be kept free. Please do not place newspapers or cloths on/over the TV.



If the TV is placed in a cabinet or on a shelf, leave at least 10 cm at the sides and 10 cm at the top to ensure sufficient air circulation.

Position the set so that it is not exposed to direct sunlight and additional heating from radiators.

- Prevent any metal parts, needles, paper clips, liquids, wax or the like from getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the inside of the TV set, pull out the plug immediately and notify customer service.
- Never remove the back of the TV set yourself. Repair and servicing of your TV set should only be carried out by authorised TV technicians.
- Place the TV set on a level, firm base. The set should not protrude at the front when installing in cabinets or shelves.  
Only use original accessories if possible, e.g. Loewe wall holders and stands. Never let children handle the TV unattended.  
Do not allow children to play in the immediate vicinity of the TV, they could knock, shift or pull it over and injure someone.  
Never leave the TV on unsupervised.
- Do not install the TV where there may be vibrations. Vibrations can lead to material stress.
- Pull out the power and antenna cables during thunderstorms. Surge voltages caused by lightning strikes can damage the TV through the antenna system and the mains. Also remove the antenna and mains plugs in long periods of absence.
- The mains plug of the TV set must be easily accessible so that the set can be disconnected at any time.
- Lay the mains cable in such a way that it will not be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A mains cable with damaged insulation can lead to electric shocks and is a fire risk.
- When removing the mains plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.

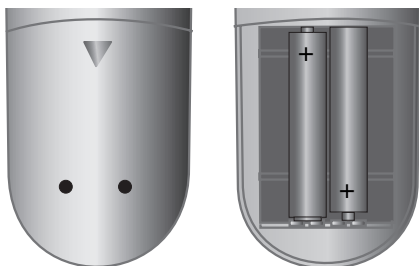
The rating plate is located on the rear panel next to the connections.

# First installation

## Remote control

### Batteries

To insert or change the batteries, press on the arrow. Slide the battery compartment cover downwards and remove it. Insert LR 03 alkaline-manganese batteries (AAA) and ensure that the + and - ends are positioned correctly.



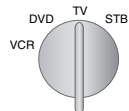
Then push the cover back on from the bottom.

### Note on disposing batteries



The batteries provided contain no harmful materials such as cadmium, lead or mercury. Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

### Setting up the remote control for operating the TV



Set the rotary switch to "TV"

How to operate other equipment is described as of page 55.

## Connection

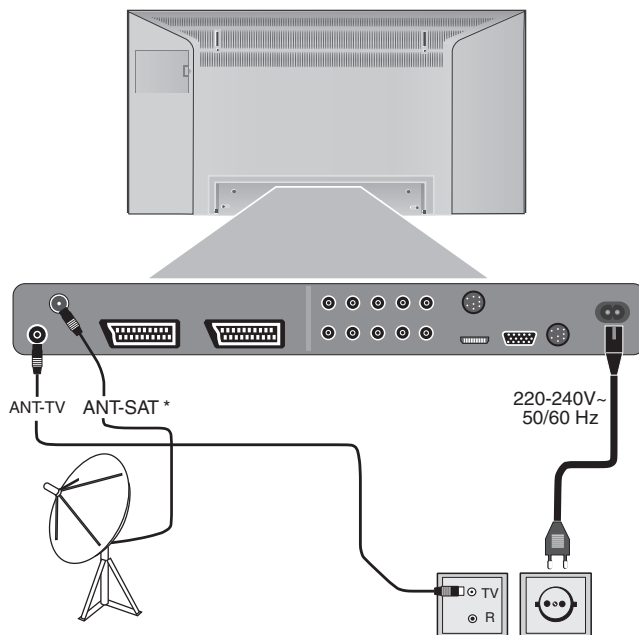
### Power mains

Remove the cover for the connections.

Connect the TV set to a 220-240V/50- 60 hertz power outlet. Plug the small plug of the mains cable into the mains socket on the rear of the TV set; plug the large mains plug into a mains socket.

### Antennas

Plug the antenna plug of your antenna/cable system or the room antenna for DVB-T into the ANT-TV socket (Tuner 1).



If the reception conditions are good, then a room antenna may be used for DVB-T. Passive and active room antennas are available on the market. The power is supplied for an active antenna via the antenna connection. For automatic programming or in "TV Menu – Connections – Antenna DVB – Antenna DVB-T," the distribution voltage (5 volts) is to be set correspondingly.

It may be practical to use a nondirectional antenna. If the location is outside the normal transmitting range, then a unidirectional antenna may also be used to improve the reception quality.

You can find out more on the digital stations that can be received in your area at your specialist dealer.

# First installation

Plug the antenna into the antenna input of the PIP tuner and connect the PIP tuner output with the ANT-TV socket (Tuner 1). See illustration on page 5.

If a Digital Satellite Tuner 1 has been retrofitted, connect your satellite antenna system to the ANT-SAT socket.

If a Digital Satellite Tuner 2 has been retrofitted, then connect one antenna cable each, for example from the antenna switch or from the twin LNC, to both SAT sockets.

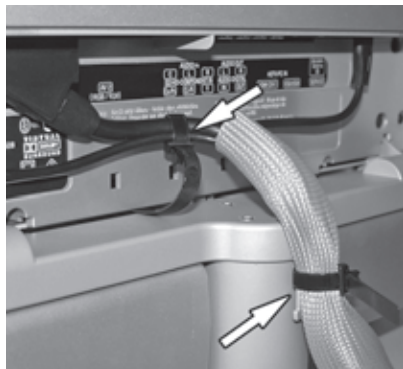
## Handling the fabric hose



Use the fabric hose included to lay the mains cables, antenna cables or cables from other electronic components systematically; then lead the hose with the cables to the connection boxes. This provides you with an elegant solution when laying cables.

The diameter of the fabric hose increases when you push it together lengthwise (see illustration). This makes it easier for you to push through cables with plugs.

## Use of the binders



The enclosed binders are intended to bind the connecting cables together and fix the cables to the mount of the table stand (see figure).

By pressing on the closure of the binder, it can be opened again.

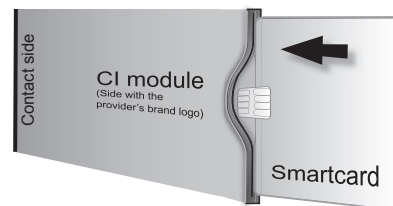
Replace the connection cover on the TV set.

## Using the common interface module

In order to be able to receive encrypted digital stations, the common interface module (CI module) and the smartcard both have to be inserted into the corresponding slot of your TV set. You can purchase the CI module and smartcard at your specialist dealer. You can find the slot on the back of your TV set, see the illustration on page 5.

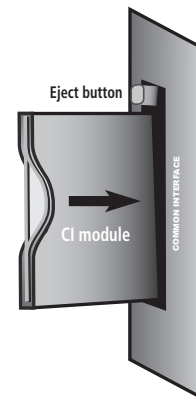
1. Make sure the TV set is switched off with the mains switch on the set.
2. First push the smartcard into the CI module as far as it will go. Insert it so

that the side with the golden contact chip faces the side of the module printed with the supplier's brand logo. Printed arrows indicate how to insert the card. Also follow the installation instructions included with the smartcard.



3. Slide the CI module <sup>(1)</sup> carefully into the slot with the contact side facing the front. The logo on the common interface module should be visible. Make sure the module is not twisted in the process. Do not use force. When the module locks, the eject button is pressed outwards.

<sup>(1)</sup> The CI module and the smartcard are not included in the scope of delivery of this set; you can usually obtain them at your specialist dealer.



## Switching on



Press the mains switch, the red indicator on the set now lights up (standby mode).



Switch on the set using the switch integrated in the indicator. The green indicator on the set now lights up (for further operating options see page 12).

# First installation

## Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.



By pressing in one of the arrow directions, you can choose the settings ...

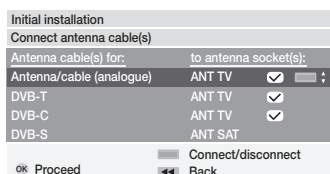


... and confirm your settings by pressing OK. You then go to the next menu.



Back to the previous menu.

1. First you have to select the menu language.
2. By pressing the **OK** button, you can call the menu "Connect antenna cable(s)". If you want to receive digital stations via satellite, then choose "DVB-S" - confirm using the **yellow** coloured key. If you also want to receive digital terrestrial stations (DVB-T), then select "DVB-T". Also select "Antenna/cable (analogue)" - this way the standard analogue stations can also be searched for and saved. If you can receive digital stations from the cable network, then select "DVB-C" using the **yellow** coloured key.
3. For the country-specific station sorting and for presets for DVB-T and DVB-C, enter the location at which the TV set is operated.
4. If you have selected "DVB-T", you then reach the menu "Antenna DVB-T". If you use an active antenna, then select "yes (5V)".
5. If you have selected "DVB-C", you generally leave the symbol rates and modulation types unchanged.  
If other symbol rates are used in your cable network for broadcasting, enter the values with the numeric buttons of the remote control. If only one symbol rate is used, enter the same value for both symbol rates. If other modulation types are used for broadcasting in your cable network, select them in the menu. If only one modulation is used, select „none“ for modulation type 2.  
If necessary, ask your specialist dealer about the necessary settings for your cable network.
6. In the "Select satellite installation" menu, make the selection that corresponds to your satellite antenna installation.  
**Note:** If you have any questions on how your satellite antenna installation is configured and on the antenna settings, consult your antenna installer or your specialist dealer.
7. Select the satellite the antenna is directed at, such as ASTRA1.



If you only receive one satellite ...

8. In the following menu, specify whether the station search should take place in the high and low band ("Yes") or only in the low band ("No").

**Note:** For most satellites, a station search is required in both bands.

9. For the low band and high band, the standard frequencies 9750 MHz (9.75 GHz) and 10600 MHz (10.6 GHz) are preset.

If your satellite antenna is equipped with an LNC (LNB) with a divergent oscillator frequency, specify the corresponding frequency for low and high band respectively. **Note:** The correct display of the received frequencies in the "TV menu – Settings – Stations – Manual adjustment" depends upon this setting.

10. You should receive a picture with sound with the settings previously made (only for ASTRA 1 and HOTBIRD). Then press **OK**.
11. In the "Pre-programming" menu, select the factory-set pre-programming to programme the satellite stations quickly.  
To ensure all stations that can be currently received are searched for and saved, select "No" at this point.

Symbol rates: The standard symbol rates 22000 and 27500 are preset. If you would like to receive stations with different symbol rates, specify the corresponding values here using the numeric buttons on your remote control.

12. Press **OK** to obtain an overview of the settings with which the automatic programming is to take place.
13. Press the **OK** button again and the station search will start. The TV set searches for, sorts and saves all the TV stations that can be received, according to your settings and the antennas connected.
14. When the TV stations are saved, you will receive a corresponding message.
15. Press the **OK** button and the set then searches for the radio stations.
16. The TV set searches for, saves and sorts all radio stations which can be received with your antenna system.
17. Then log on your video equipment, decoder and audio system using the connection wizard and connect these to the TV according to the connection diagram displayed. If you want to connect other equipment later, you can find information as of page 48.

You can repeat the initial installation at any time, e.g. after moving house. Call the index using the **INFO** button (in the TV mode, if no menu is opened). Select the index item "Repeat initial installation" (you will find this listed separately before the letter A). Press **OK** to start the initial installation.

## Station sorting

You can change the station sorting that was carried out automatically later at any time, see "TV menu – Settings – Stations – Change stations".

# First installation

## Directing DVB-T antenna

If you use a room antenna to receive one or more DVB-T stations that have picture and sound interference, then you should change the location of where the antenna is set up.

To help you direct your antenna or to help you determine the most suitable location to set up the antenna, your TV set has a display for the signal quality **C/N** and the signal strength **Level**.

Consult your specialist dealer to find out which channels and frequency bands (VHF or UHF) are used to broadcast the digital TV stations in your area.

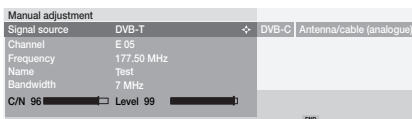
On any one channel, several digital stations are broadcast.

### Select a TV channel

1. Call the "TV menu" via the **MENU** button.
2. Use **◀ ▶** to select "Settings", then use **▼** to select the menu line underneath.
3. Select "Stations", then use **▼** to select the menu line underneath.



4. Select "Manual adjustment" and call the menu using **OK**



5. For digital stations, select "Signal source – DVB-T".
6. Use the **numerical buttons** to specify the corresponding channel number. Depending on the channel selected and country, the system automatically sets the corresponding bandwidth of 7 or 8 MHz. You should only change the bandwidth under special circumstances - if the channel raster in your area is different from the standard.  
When you receive a digital station, the system displays the signal quality **C/N** via a bar/numeric value and the signal strength via **Level**. The antenna's direction or position is best when the largest values possible are displayed (long bar) for the signal quality and signal strength.
7. Direct the antenna so that the largest numerical value/bar size is reached.
8. If no signal is found in the channel set, you can start the frequency search run by pressing the **blue** button within the band selected (VHF or UHF).
9. Check the other channels one after another on which digital stations are broadcast terrestrially in your area.  
For the weakest station, direct the antenna so that the maximum numerical value/bar size is achieved.
10. After you position or direct the antenna, we recommend to search for all the stations using the "Search wizard" (TV menu – Settings – Stations – Search wizard).

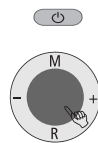
# Daily operation

## Switching on/off

Your TV is equipped with an eco-standby power supply unit. On standby, the power consumption drops to low power. If you want to save even more electricity, switch the set off with the mains switch. However, please bear in mind that EPG data (electronic programme guide) will be lost and programmed timer recordings will not be performed by the TV.

### Switching off

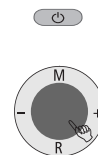
If the TV set is switched on, you can switch it to standby using the blue ON/OFF button on the remote control or by using the indicator field on the set. The red lamp on the TV set lights up. If the orange indicator lights up, a timer recording is being made, EPG data is being captured or radio operation without screen display is active.



### Switching on the TV set

From standby, it is best to switch the set back on using the blue On/Off button or by using the numeric buttons of the remote control (0 – 99).

Or use the switch integrated in the indicator on the set. The green indicator on the TV set lights up.



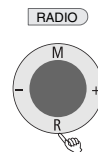
Or switch on the TV set with **OK**, you can then see the station list and select a station.



### Switch on the radio

With the **RADIO** button on the remote control or:

Switch on radio using **R** on the control ring of the TV set.



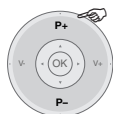
If you switch off the TV set using the mains switch on the set, the indicator no longer lights up.

If the TV set is switched off via the mains switch, you have to switch it into the standby mode first via the mains switch and then switch it on using one of the above mentioned methods.

# Daily operation

## Changing stations

### ... with the P+/P- buttons on the remote control



Stations up/down

When changing, the station display is visible for a few seconds.



If additional languages are broadcast with DVB stations, then the set displays the language/sound selection under the station display. Call the language/sound selection by using the **green** coloured key and select using **▲ ▼**.

### ... with the numeric buttons of the remote control

The set has a dynamic memory with 1680 station memory locations. If up to 9 stations are stored, you only need to enter one digit; up to 99 stations, two digits are needed; up to 999 stations, three digits are needed (refer to the station list to see how many stations have been stored).

**7 pqrs**  
long

#### 1 digit stations

Press buttons 0-9 for one second, and the station changes instantly.

Or press button 0-9 briefly, the station then changes after 2 seconds (the station changes immediately when only 9 stations are saved).

**1 2 abc 7 pqrs**  
short short long

#### 2- and 3-digit stations

After briefly pressing the first numeric button(s), keep the last numeric button pressed for one second, the station then changes immediately.

Or press all numeric buttons briefly, the station then changes after 2 seconds (the station changes immediately if up to 99 or 999 stations are saved).

**1 2 7 8 tuv**  
all short

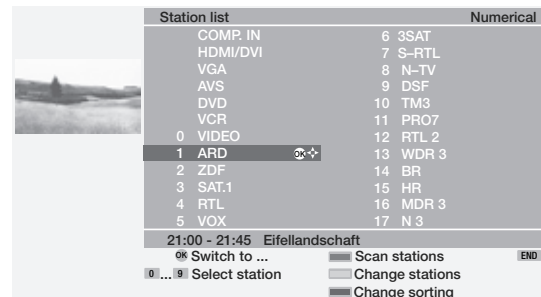
#### 4 digit stations

Press the four numeric buttons briefly, the station then changes immediately.

### ... via the station list



Use **OK** to call the station list.



Select the station (if possible, the selected station will be displayed as a small picture)

or ...



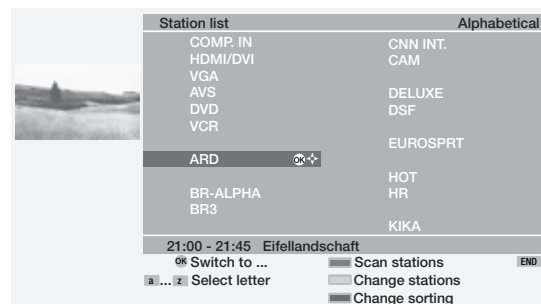
... select with numeric buttons



call selected station



**Blue** coloured key: sort alphabetically/according to bouquets/numerically



For an alphabetical display: Enter letters with the numeric button (like on a mobile phone keypad), select with **▼ ▲ ◀ ▶** and call with **OK**.

For bouquet display (sorting according to broadcasting chains, only for DVB stations): Enter bouquet number, select with **▼ ▲ ◀ ▶** and call with **OK**.

Digital DVB-T stations are indicated by **T**, DVB-C stations by **C** and DVB-S stations by **S**. Encrypted stations are additionally indicated by **lock**.

Ask your specialist dealer about decoders or the use of a CI module and a smartcard for the reception of encrypted stations.

# Daily operation

## Basics about the menu operation

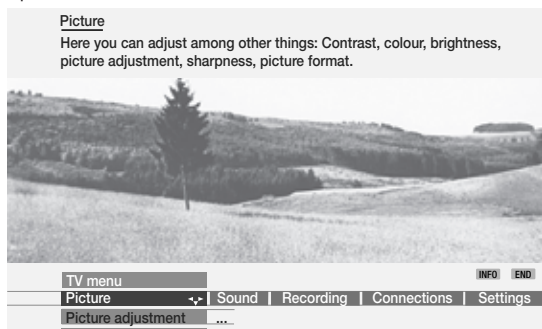
Menus are called via the **MENU** button or via the button for special menus and can be hidden by using these buttons or by using the **END** button. The menu is displayed in the bottom section of the screen. At the top, you can see additional information for the menu point selected. In the menus, navigate by using the cursor  $\blacktriangle$   $\blacktriangledown$   $\blacktriangleleft$   $\blacktriangleright$ . You can make settings by using  $\blacktriangleleft$   $\blacktriangleright$ . When you exit the menu, the settings are adopted.

## Example of the menu operation

We shall demonstrate how to navigate with the menus using the TV menu as an example. You can see which buttons you can use in the dark blue field on your TV set.

**MENU**

Open TV menu (in TV mode).

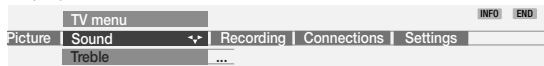


**Picture**

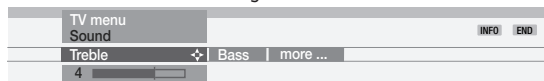
Here you can adjust among other things: Contrast, colour, brightness, picture adjustment, sharpness, picture format.



Select the function in the TV menu, e.g. "Sound" (for sound settings). Use  $\blacktriangleright$  to move the menu points displayed on the right into the dark blue field; use  $\blacktriangleleft$  to move the menu points displayed on the left.



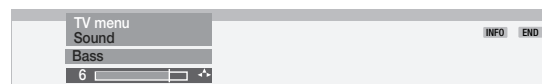
Select the sound function below with  $\blacktriangledown$  or **OK**; you will then see a list of the sound settings.



In the sound settings, also select the function with  $\blacktriangleleft$   $\blacktriangleright$ , e.g. "Bass" (for increasing or reducing the bass tones).



To set the bass tones, use  $\blacktriangledown$  or **OK** to select the setting bar underneath.



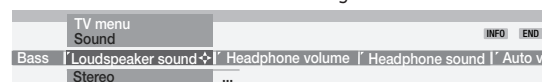
Set the bass tones by using  $\blacktriangleleft$   $\blacktriangleright$ .



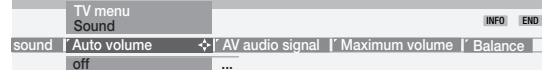
If you want to make other sound settings, move up with  $\blacktriangle$  to "Bass" and select with  $\blacktriangleleft$   $\blacktriangleright$ , e.g. "more...". You can also move up further to "Sound" by using  $\blacktriangle$  and select other settings in the TV menu (such as, picture settings).



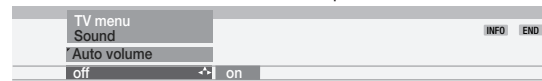
Use **OK** to call additional sound settings.



Select the sound setting using  $\blacktriangleleft$   $\blacktriangleright$ , e.g. "Auto volume" and ...



... use  $\blacktriangledown$  to select the auto volume option.



Use  $\blacktriangleleft$   $\blacktriangleright$  to select "on" and activate the auto volume.



**END**

Press the **END** button to hide the menu.

Apart from the TV menu shown here, other menus can be opened in TV mode as follows:



Call the Sound menu directly.



Call the Picture menu directly.



Quick calls for Image+, teletext subtitles, personal text pages, headphone volume, scan stations and to move the picture up and down.



**Green** coloured key: Call standard settings for picture and sound.




Using the volume control, you can also open other sound settings, such as Sound via, Sound adjustment, Sound effects and Loudness.

The key  $\blacktriangle$  or **OK** must be pressed for the duration of the volume display for this.

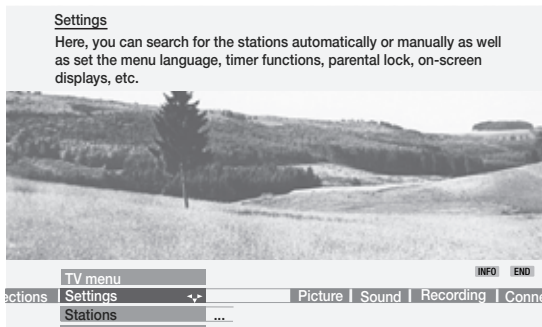
# Daily operation

## For the info system ...


For each menu point, an info text is displayed at the top of the picture to help you with the setting. This saves you from having to refer back to the operating instructions. We shall demonstrate this using the station search option as an example:

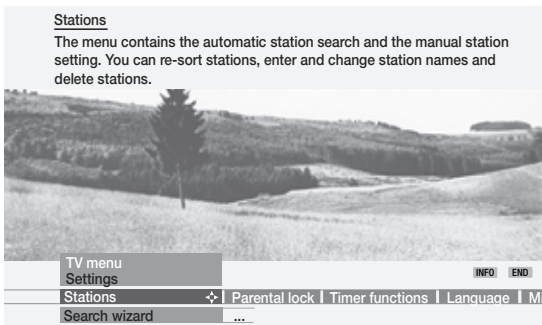
 Call the TV menu.

 Select "Settings".



In this example, you can see the options available after "Settings".

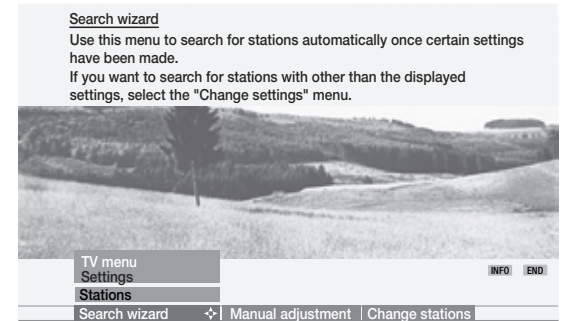
 If you want to search for new stations, for example, use ▼ to select "Stations" in the line below.



The info text indicates which settings you can make in "Stations".



Use ▼ to select the line below, for example "Search wizard".



The info text explains how you are to proceed.

Upon delivery, the TV set is configured so that the info texts are always displayed (Automatic info "yes"). In this case, you can hide the info texts by using the **INFO** button.

You can also configure the TV set so that you call the info texts when needed by using the **INFO** button (Automatic info "no"). You can find the setting to switch the automatic info option on or off via "TV menu under Settings – Miscellaneous – On-screen displays – Automatic info – yes/no".

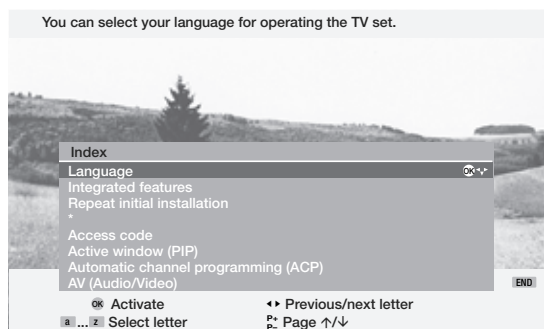
# Daily operation

## For the index ...

Using the index, you can access many operational functions directly. You can also find a great deal of information on technical terms about television. Before the alphabetical sorting, you can find the menu language option, the list of features integrated into the TV set and the repeat initial installation option.

INFO

Call the index in the TV mode (without any other on-screen displays).



Info on the index item selected is visible at the top of the picture. If the OK symbol is displayed in the line selected, you can use the **OK** button to access the menu directly and carry out settings or selections.

### This is how to select the index item:

2 abc

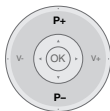
Enter the first letter using the numeric buttons on the remote control (like on a mobile phone keypad);

9 wxyz

or



use ◀ ▶ to go to the previous/next letter, or



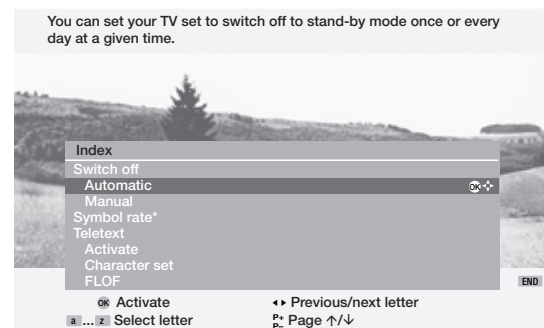
use **P+ / P-** to scroll up or down through the pages



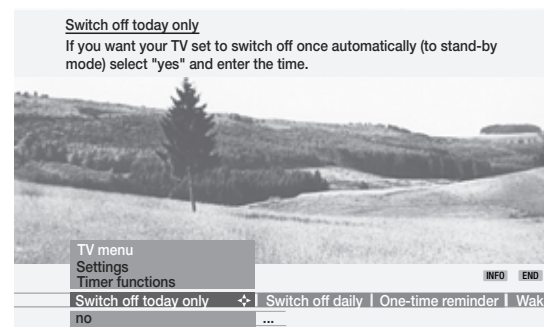
and use ▼ ▲ to go from line to line.

For example, you want to have the TV set switch off automatically:

Select the index item “Switch off” – “Automatic”.



Use the **OK** button to call “Switch off” – “Automatic”.

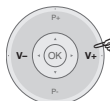


The corresponding menu “Timer functions” is displayed (in the TV menu – Settings). You can now choose between “Switch off today only” and “Switch off daily” and enter the time.

# Daily operation

## Setting the sound

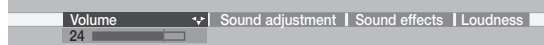
### Volume and other frequently used sound settings



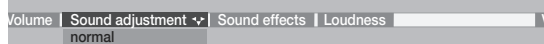
Setting the volume



by using ▲ or OK, you can call other sound settings ...



and select using ◀ ▶ ...



use ▼ for the related selection/setting ...



... and use ◀ ▶ to make the selection/setting there.



Sound adjustment allows you to adjust the sound characteristics to the station's sound. The Sound effects settings allow you to expand a Dolby Pro Logic Signal to a virtual surround signal by using "Dolby Virtual"; by using "Panorama", you can enhance the foundation of the stereo sound virtually for the loudspeakers.

### Sound off/on



Sound off;  
Sound on: Press button again or adjust volume.



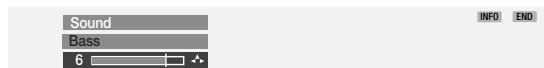
### Other sound settings:



Call the Sound menu



use ◀ ▶ to select the sound function to be set and use ▼ for the related selection ...



and use ◀ ▶ to select/set.

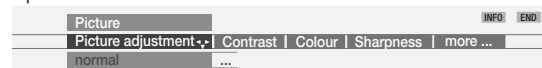


Sound settings: Treble and bass. Different menu items are displayed depending on the connected audio device (AURO, hi-fi amplifier). Under "more ..." you will find the sound selection for loudspeakers and headphones, auto volume, headphone volume, AV audio signal, maximum volume and balance.

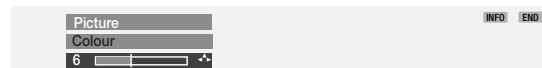
## Picture settings



Open the Picture menu



use ◀ ▶ to select the picture function to be set and use ▼ for the related selection ...



... and use ◀ ▶ to set/select.

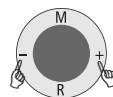


Picture settings: Picture adjustment, Contrast, Colour, Sharpness. Under "more ...", you can find settings for Brightness, Image+, Picture format, Move picture up/down, Auto format and Film quality improvement DMM.

## Direct control on TV set

On page 4, you can find illustrations of the control unit located on the set.

### Switching station on the TV set



Station up: with + on the control ring

Station down: with - on the control ring

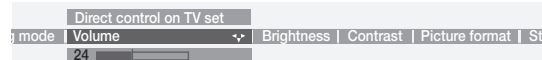
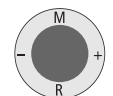
### Switching the radio on/off or switching over to the radio

Press R to switch the radio on or off.

### Additional functions via the menu

In the radio or TV operating modes, you can make settings for Volume, Brightness, Contrast, Picture format and Stations. "Service" is intended for the customer service department.

use M to call the menu



use - or + to select the function to be set



use R for the related setting/selection



use - or + to set/select.

Use M to move one level up; you can use - or + to select other functions.

# Operating modes – TV

## TV

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation, such as EPG, Teletext, PIP or Radio, have been selected.

Each of these operating modes has a separate menu with separate functions for the coloured keys. Call the menu via the **MENU** button.

### How the coloured keys work in TV mode



**Red:** Call the DR archive (Digital Recorder).

**Green:** Call personal settings/factory settings for picture and sound, save picture and sound settings as personal settings.



**Yellow:** call last station viewed. You can switch back and forth quickly between two stations using this button.

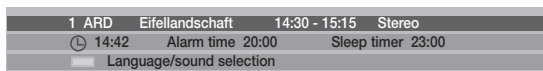
**Blue:** call programme info.



### Show status display



Show/hide status



In the line above, you can see the name of the station and the sound mode. Displayed below are additional options (Time, Sound mode, Alarm time and Sleep timer) that can be selected in the “TV menu – Settings – Miscellaneous – On-screen displays”.

For the status display, the DVB station providers may offer additional selection options for each station. Thus, the corresponding colour key or the **TEXT** button is displayed:



**Red:** channel selection for multi-channel providers.

**Green:** language/sound selection.

**Yellow:** time selection.

**Blue:** protection of minors.



DVB subtitles.

If you press one of the coloured keys during the status display or you press the **TEXT** button, the related selection menu is displayed.

The status display subtitles refer only to the “DVB subtitles” and are not provided by all stations. The options you see depend on the particular station (many stations broadcast subtitles via teletext).

The status display is displayed automatically when a new programme begins with options different to the previous one.

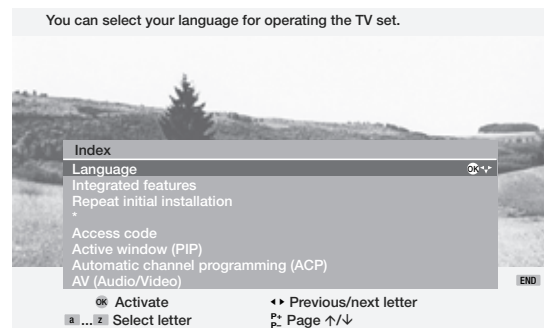
### Notes:

- In the sound mode, Mono! means that you have switched manually from stereo to mono, for example.
- The selection menus are only available as long as the status display is displayed. You can call them again at any time by pressing the **END** button on your remote control.

### Calling the index



Calling the index



You can find more information on the index on page 16.

# Operating modes – TV

## Call additional functions



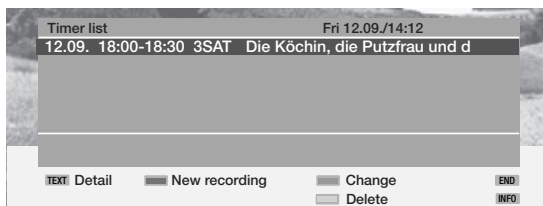
Select additional functions such as Image+, Teletext subtitles, Personal teletext pages, Headphone volume, Scan stations and to move the picture up and down.



## Call timer overview



If timer recordings have been programmed, you will see when which station is recorded here.




## Select picture format



The TV set sets the best picture format automatically when Auto format is switched on. If you want to set a different format, press this button until the desired format is selected or select the format with ◀ ▶.



You can switch the panorama picture over to distortion-free representation on your TV set. Dark margins are then visible on the left and right of the picture.

Switching over: Keep the **M** button on the set pressed, at the same time press the "Picture format"  button on the remote control briefly.

Resetting: Press the same button combination again.

## Move picture up/down

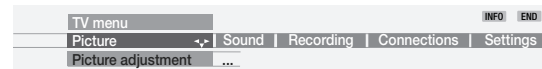


To make picture subtitles visible, you can use ▲ ▼ to move the picture up or down with the picture formats "Panorama", "Cinema" and "Zoom".

## TV menu



Call up the TV menu



You will find a description of the picture and sound settings on page 17. The TV menu offers other options for recording, connections and settings of the TV set.

## For a recorder that is logged in, you can find the following menus in the "Recording":

[Recording wizard - to programme new timer recordings](#)

• Via EPG • Via teletext • Manual

You will find further information about timer recording on page 49.

[Timer list](#)

Here you will find a list of programmes programmed for recording. You can change the recording data or delete programmed recordings and programme new recordings.

[Pre-record time and Post record time](#)

For recordings without VPS/PDC, set a lead and lag time here so that the programme is fully recorded despite any slight differences in the time.

## Under "Connections" you will find the following functions:

[New devices/modifications \(connection wizard\)](#)

The connection wizard helps you connect and log in additional equipment such as video recorders, DVD players/recorders, camcorders/digital cameras, pay TV decoders, equipment with component signals and digital HDMI/DVI signals.

[Antenna DVB](#)

• Antenna DVB-T • Antenna DVB-S <sup>(1)</sup>

You can find more information on pages 11 and 12.

[Digital Link Plus](#)

Transmission of the station data from the TV set to the video/DVD recorder if a recorder with Digital Link Plus is connected.

[Miscellaneous \(connections\)](#)

- Set AV norm for the connections manually (if it is not recognised automatically).
- "Assign audio digital signals" to one of the AV sockets.
- "Allow switching voltage" to display the signals of the connected device immediately on the screen via Euro AV during playback.
- RGB insertions at AV2 to play back RGB signals at all station storage locations.
- Select decoder stations and set sound encoding.

<sup>(1)</sup> only for sets with DVB-S

# Operating modes – TV

## Under “Settings” you will find the following functions:

### Stations

Here you can search for and store new stations automatically or manually. With “Change stations”, you can rearrange and delete the stations and change station names.

- Search wizard
- Manual adjustment
- Change stations

### Parental lock

You can lock the TV “immediately”, “daily” for a certain period of time or “age-related” for DVB programmes with age restrictions.

Here, you determine the PIN to enter if you want to watch locked programmes.

### Timer functions

You can have your TV switch off at pre-programmed times or wake you/remind you with radio or TV. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

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

### Language

If “your” menu language is not set, you have to select the “Language” menu in a language that you do not understand. Therefore here is a simple way to set the right menu language:

1. Press the **INFO** button (index), select the first listing (this is above A).
2. Call the language selection by pressing the **OK** button.
3. Now select the desired language and confirm it by pressing the **OK** key.
4. Hide the menu again with the **END** button.

### Miscellaneous (settings)

#### On-screen displays

You can set the duration and position of the station and status display, define the content of the status display and switch the automatic info texts on or off:

- On-screen display time
- On-screen display position
- Programme title
- Sound mode
- Time
- Alarm time
- Sleep timer
- Automatic info

#### Time and date

If you receive teletext, the set registers the time and date. These are required for timer recordings, timer functions and EPG. If you do not receive teletext, then you have to enter the date and time; you should not switch off the set using the mains switch since the settings will then be lost.

#### DVB software

Update of DVB software via satellite <sup>(1)</sup>.

#### DVB subtitles

- Subtitles off
- Subtitles for the Hearing Impaired
- Subtitles as translation for foreign language programmes

#### DVB character set

- Western European
- Polish
- Standard.

#### Rotate TV

Individual Edition sets are equipped with a Motor Unit at the factory. You can find out more on page 57.

## DVB subtitles

If the station provides DVB subtitles, then you can have the TV display them permanently or suppress their display. You can also select between subtitles “for translation” or “for the Hearing Impaired”.

1. Call the “TV menu” via the **MENU** button.
2. Select the “Settings” line and confirm using **OK**.
3. Select the “Miscellaneous” line and confirm using **OK**.
4. Select the “DVB subtitles” line and confirm using **OK**.



Note: If you have selected “Subtitles off”, then the set generates an on-screen display when subtitles are available.

By using the **END** button, you can open the status display and you can display the subtitles again by using the **TEXT** button.

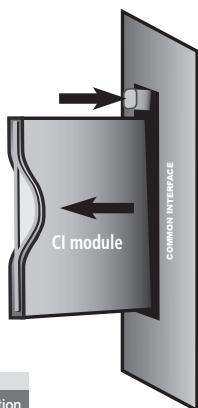
- Call the status display by pressing the **END** button, if it is not yet displayed.
- When the status display is visible, press the **TEXT** button. Select the desired language and confirm using **OK**. The presetting changes for the current programme.
- Which subtitle languages can be selected depends on the provider.
- The automatic shortlist is determined by the menu language and the selection made in the “DVB subtitles” settings menu.
- By pressing the **END** button, you can hide the menu again.

<sup>(1)</sup> only for sets with DVB-S

# Operating modes – TV

## Removing the CI module

1. Switch the TV set off with the mains switch.
2. Remove the cover from the back of the set on the upper left.
3. Press the eject button at the module slot; the module is unlocked.
4. Remove the module from the set.



## Inserting a new CI module

After you insert a new CI module and switch the TV set on, the following dialogue is displayed:

### Autom. station search

Your TV set has detected a new CI module. This requires a station search for all new receivable stations.

After you press the **OK** button, the system starts the wizard to carry out the automatic station search. Check the proposed search parameters and let the set search for new stations.

## Calling the CI module menu

Here you can call up information on the inserted common interface module and the smartcard. To do this, use the **MENU** button to call the TV menu, select the line "Settings", "Miscellaneous" and then the entry "CI module - xxx" (in place of "xxx" stands the name of the provider which is output by the smartcard. The content of this menu depends on the particular supplier of the CI module.

Note: This menu is only available for digital stations.

## Installing new DVB software

To ensure your DVB-S receiver is always performing at the state of the art, newly developed software versions are made available from time to time; these are broadcast via satellite and can be automatically installed on your set (only possible via ASTRA1).

## Software is recognised automatically

The set can determine whether a new software version is available. This occurs at night when your EPG is automatically updated. For this, your TV set has to remain in the standby mode (do not switch off using the on/off button on the set).

If a new software version has been found, the set will indicate this with an on-screen message the next time the set is switched on: You can decide whether or not you want to download the new software.

Confirm using **OK**, so that the new software can be loaded and installed via satellite. Continue as set out in the "Downloading software" section.

## Searching for new software

If you want to carry out a manual search for new software, proceed as follows:

1. Call the TV menu using the **MENU** button.
2. Confirm the "Settings" using **OK**.
3. Confirm the "Miscellaneous" using **OK**.
4. Select "DVB software" and press **OK**.

### Update digital TV software

Current version: V3.x.x

You can search for a new software version with **OK**.

5. If you start the search using **OK**, the set checks if there is a new software version available.
6. If there is a new version available, the set generates an on-screen message.

### Update digital TV software

Current version: V3.x.x

New version: V3.1.0

## Downloading software

1. If you press **OK** in the dialogue above, you can decide whether you want to download the new software immediately, when you switch off the set or not at all. We recommend you always carry out the update of the digital software. This is the only way to ensure your set is always up to date.
2. If you do decide to update, the software is initialised on your set and you are informed of the status with a grey bar.  
**Do not switch your set off during this time. This process may take up to one hour. You will be informed when the process is completed.**
3. After the software is updated, you will be asked to switch your TV set off and back on again using the on/standby switch.

If the update was not carried out, you will be asked several times when you switch on the set whether you want to carry out this update.

# Operating modes – TV

## Image+

Image+ is a picture improvement specially developed by Loewe, which delivers a sharper, lifelike and colour-fast picture richer in detail and contrast.

### Image+ menu



Call the menu "Additional functions".



Use  $\blacktriangledown$  to move to the corresponding selection/setting ...



and use  $\blacktriangleleft$   $\blacktriangleright$  to select/set and use ...

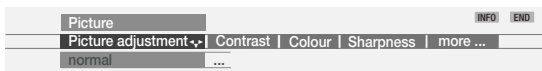


to activate.

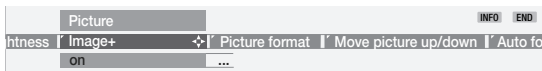
In the Image+ menu, the functions Image+ "on", "off" and "Demo" can be set. The Image+ settings can also be opened via the "Picture" menu.



Open the Picture menu.



Use  $\blacktriangleleft$   $\blacktriangleright$  to go to "more..." and select with **OK**.

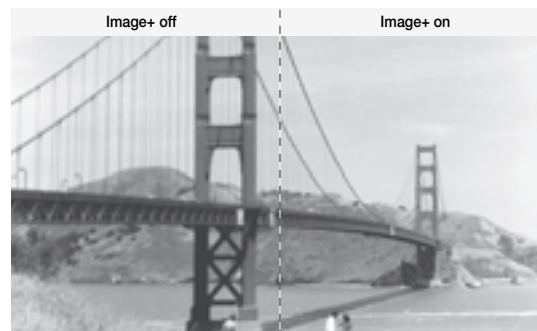


Select/set as described in the Image+ menu.

The standard setting at delivery of the set is Image+ "on".

## Image+ demo mode

In order to show the way Image+ works, a "Demo mode" is integrated. In "Demo mode", the current picture is divided into two parts. The left half of the picture is shown in "normal" mode, the right half in the Image+ optimised mode.



The demo mode can be closed by pressing on any button on the remote control.

# Operating modes – PIP

## Picture in picture (PIP)

Your Individual Edition set is equipped with two TV cable tuners which enable picture in picture displays. But you can also use picture in picture with a retro-fitted digital satellite tuner or when playing back from a video recorder or DVD player (AV-PIP).

The following PIP displays are possible: Main picture analog – PIP picture analog, Main picture digital – PIP picture analog, Main picture analog – PIP picture digital, Main picture digital – PIP picture digital.

For "Split screen," the PIP picture is displayed on the right side of the screen. Both pictures share the screen in two equal halves. For the "Small PIP" setting, a small picture is displayed in the TV picture.

The green bar/frame indicates that the control commands have an effect on the PIP picture. The white bar/frame means that the control commands have an effect on the main picture. Use the **green** coloured key to switch between the PIP picture and the main picture, for example to change stations.

The frame or bar between the pictures is green for the time being.



Show/hide PIP picture

## PIP picture as freeze picture



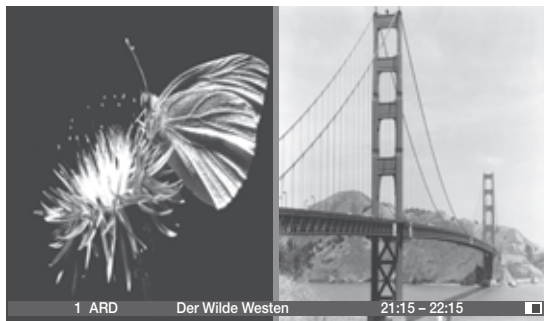
The bar/frame has to be green. If not, press the **green** coloured key.

If you press the **red** coloured key, the PIP picture freezes. Press again - moving picture.

## Selecting the station of the PIP picture



The bar/frame has to be green. If not, press the **green** coloured key. Then select the station as usual.



## Select the station of the TV picture (main picture)



The bar/frame has to be white. If not, press the **green** coloured key. Then select the station as usual.



## PIP scan in the PIP picture



The bar/frame has to be green. If not, press the **green** coloured key.

Start scanning the stations using the **blue** coloured key. The bar/frame turns blue.

The stations now change automatically. Stop scanning the stations by using the **blue** coloured key. The bar/frame turns green again.

## Interchanging PIP picture/TV picture



The bar/frame has to be green. If not, press the **green** coloured key.

Interchange the pictures by using the **yellow** coloured key.

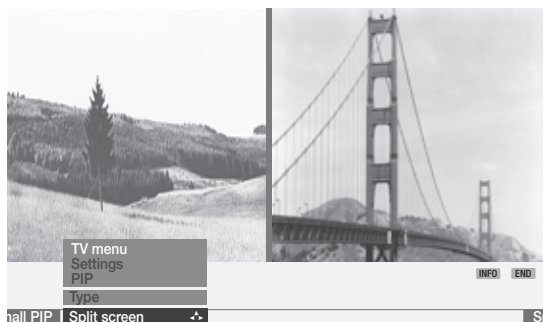


# Operating modes – PIP

## Functions in the PIP menu

In the PIP menu, you can set the PIP type (small picture or split screen) and the position of the small picture.

**MENU** Call the PIP menu (PIP must be active, green bar/frame).



## Setting the PIP type

You can have the PIP picture displayed as a small PIP or split screen.

### Switch to small PIP:



Select "Type" and then "Small PIP".



For the small PIP, you will see a coloured frame around the PIP picture.

## Position of the PIP picture



Move the PIP picture with the arrow keys to a corner of the TV picture. In this case, the frame around the PIP picture has to be green, and there should not be any other displays visible on the screen.



## Switch to split screen:

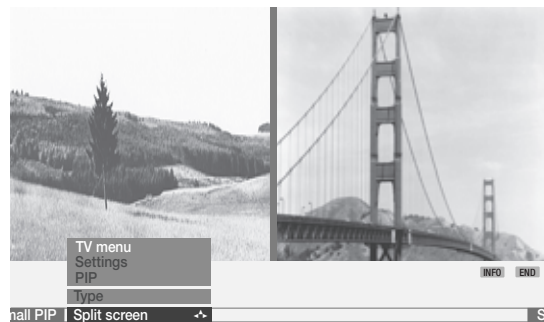
You can have the PIP picture displayed on the right hand side of the screen. Both pictures share the screen in two equal halves. You will see a coloured vertical bar between the pictures.

**MENU**

Call the PIP menu (PIP must be active, green frame)



Select "Type" and then "Split Screen".



# Operating modes – EPG

## EPG - Programme guide

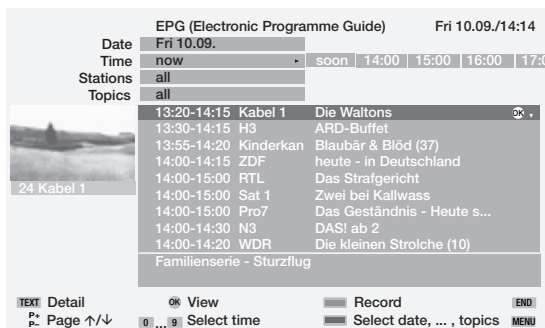
EPG is an electronic programme guide. With this system, you can easily find the programmes that interest you (sorted according to day, time, station and topic). You can mark programmes and programme recordings.

Depending on whether you are receiving analogue stations by cable/antenna or digital stations, you will have different programme guides.


A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data capture (see next page).

## Using the EPG

 Switch EPG on/off



The screenshot shows the EPG menu with the following settings and programme list:

| EPG (Electronic Programme Guide)   |            | Fri 10.09./14:14 |       |       |       |       |
|--|------------|------------------|-------|-------|-------|-------|
| Date   | Fri 10.09. | soon             | 14:00 | 15:00 | 16:00 | 17:00 |
| Time   | now        |                  |       |       |       |       |
| Stations   | all        |                  |       |       |       |       |
| Topics   | all        |                  |       |       |       |       |
| <b>13:20-14:15 Kabel 1 Die Waltons</b>  |            |                  |       |       |       |       |
| 13:30-14:15 H3 ARD-Buffer  |            |                  |       |       |       |       |
| 13:55-14:20 Kinderkan Blaubär & Blöd (37)  |            |                  |       |       |       |       |
| 14:00-14:15 ZDF heute - in Deutschland   |            |                  |       |       |       |       |
| 14:00-15:00 RTL Das Strafgericht   |            |                  |       |       |       |       |
| 14:00-15:00 Sat 1 Zwei bei Kallwass  |            |                  |       |       |       |       |
| 14:00-15:00 Pro7 Das Geständnis - Heute s...   |            |                  |       |       |       |       |
| 14:00-14:30 N3 DAS! ab 2   |            |                  |       |       |       |       |
| 14:00-14:20 WDR Die kleinen Strolche (10)  |            |                  |       |       |       |       |
| Familienserie - Sturzflug  |            |                  |       |       |       |       |

At the bottom, there are controls: **TEXT** Detail, **View**, **Record**, **END**, **Page** ↑/↓, **Select time**, **Select date, ... , topics**, **MENU**.

The programme guide menu is divided into two areas: at the top, you can make the settings for the programme list (date, ..., topics); on the bottom, the programme list is displayed. Use the **blue** coloured key to switch between the two areas to make your selections.

All programmes **currently** running are listed initially in the programme list. With the **▼ ▲** buttons, select the programme you want to watch and switch over with the **OK** button.

Brief information is shown below the programme list for some programmes. If more detailed information is available, you can call it using the **TEXT** button. Use **P+/P-** to scroll up or down through the pages of the programme guide. In the selection lines for date and time above, you will see the time change when scrolling; when you scroll further, the date also changes. When the "Time" line is selected, you can enter the time as of which the programmes are to be displayed; use the numeric buttons on your remote control to do this. Always enter four digits, such as 0900 for 9 a.m.

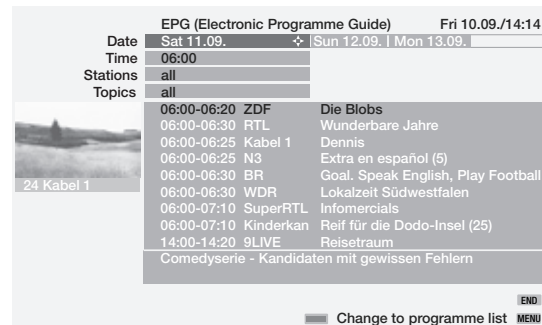
If programmes are displayed which have not yet started, you can mark these with the **OK** button. The TV set then switches automatically to this station at the given time.

When receiving digital terrestrial and digital satellite stations, you may find that two identical EPG data are displayed in the "EPG (DVB)" menu for one station. If you call the EPG menu in the EPG mode by using the **MENU** button, then select "Station selection," you can select the duplicate station and deactivate it by using **OK**.

You have direct access to the selection lines above to pre-select the day, the time, the station and the topic.



**Blue** coloured key: Call Select date/time/stations/topics



The screenshot shows the EPG menu with the following settings and programme list:

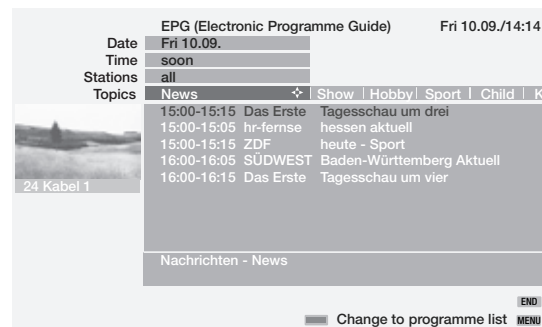
| EPG (Electronic Programme Guide)                   |            | Fri 10.09./14:14 |            |  |  |  |
|--|------------|------------------|------------|--|--|--|
| Date   | Sat 11.09. | Sun 12.09.       | Mon 13.09. |  |  |  |
| Time   | 06:00      |                  |            |  |  |  |
| Stations   | all        |                  |            |  |  |  |
| Topics   | all        |                  |            |  |  |  |
| <b>06:00-06:20 ZDF Die Blobs</b>                   |            |                  |            |  |  |  |
| 06:00-06:30 RTL Wunderbare Jahre                   |            |                  |            |  |  |  |
| 06:00-06:25 Kabel 1 Dennis                         |            |                  |            |  |  |  |
| 06:00-06:25 N3 Extra en español (5)                |            |                  |            |  |  |  |
| 06:00-06:30 BR Goal. Speak English, Play Football  |            |                  |            |  |  |  |
| 06:00-06:30 WDR Lokalzeit Südwestfalen             |            |                  |            |  |  |  |
| 06:00-07:10 SuperRTL Infomercials                  |            |                  |            |  |  |  |
| 06:00-07:10 Kinderkan Reif für die Dodo-Insel (25) |            |                  |            |  |  |  |
| 14:00-14:20 9LIVE Reisetraum                       |            |                  |            |  |  |  |
| Comedyserie - Kandidaten mit gewissen Fehlern      |            |                  |            |  |  |  |

At the bottom, there are controls: **END**, **Change to programme list**, **MENU**.

Use **▼ ▲** to select the menu line for the date, time, stations or topics. Use **◀ ▶** to select within the menu line.

If, for example, you are looking for the next news, select today's date, "Soon" under Time, "All" under Stations and "News" under Topics.

Then you get a list of all news programmes in the programme list below.




The screenshot shows the EPG menu with the following settings and programme list:

| EPG (Electronic Programme Guide)                |            | Fri 10.09./14:14 |       |       |       |    |
|---|------------|------------------|-------|-------|-------|----|
| Date  | Fri 10.09. |                  |       |       |       |    |
| Time  | soon       |                  |       |       |       |    |
| Stations  | all        |                  |       |       |       |    |
| Topics  | News       | Show             | Hobby | Sport | Child | Kn |
| <b>15:00-15:15 Das Erste Tagesschau um drei</b> |            |                  |       |       |       |    |
| 15:00-15:05 hr-fernse hessen aktuell            |            |                  |       |       |       |    |
| 15:00-15:15 ZDF heute - Sport                   |            |                  |       |       |       |    |
| 16:00-16:05 SÜDWEST Baden-Württemberg Aktuell   |            |                  |       |       |       |    |
| 16:00-16:15 Das Erste Tagesschau um vier        |            |                  |       |       |       |    |

At the bottom, there are controls: **END**, **Change to programme list**, **MENU**.

If you want to mark one of these news programmes, return to the programme list using the **blue** coloured key, select the desired news programme by using **▼ ▲** and mark this by using **OK**.

# Operating modes – EPG

In front of the programme's title, the system places an . This station is switched later to this programme when the set is switched on. If the TV is off, it switches on again automatically at the beginning of the marked programme if this has been set in the EPG menu. If you are out, a security prompt prevents the TV set staying on unattended.

Before leaving the upper selection lines using the **blue** coloured key, select a specific line. If you have switched back to the programme list, you can change this menu line using **◀ ▶** without having to leave the programme list.

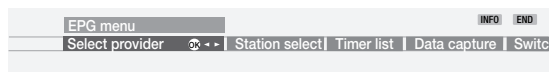
## Programming recording for recorders

The programme marked using the **▼ ▲** buttons can be prepared for recording by pressing the **red** coloured key. In the following menu, confirm the timer data or change them as required. Then a red dot is set in front of this programme in the EPG programme list as an identification (if the timer data is being transferred to the recorder, no red dot is set). If you select this programme, you can delete it from the timer using the red coloured key (if the timer data has been transferred to a recorder, the timer has to be deleted there).

## EPG menu

**MENU**

Call EPG menu



You will find the following settings in the EPG menu:

- Select provider
- Station selection
- Timer list
- Data capture
- Switch on TV when marked

## Selecting providers and stations


If you want to change the provider for analogue TV reception (the station which transmits EPG data) to have other stations evaluated, you can do this under "Select provider".


Select "Select provider" and call this menu using **OK**. If the station you want to switch to is not listed in the "Select provider" list, then use the **yellow** coloured key to start the automatic search for stations with EPG data. This takes a while.

Or, if you know the station that transmits EPG data, press the **blue** coloured key to compile manually. Select the provider in the station list and adopt it by using **OK** and return to the provider selection using **◀◀**.

Select the provider in "Select provider" and adopt it using **OK**. Then a station list search is performed. The stations offered by the provider are displayed in a list.

If you want certain stations to be omitted from the programme guide, you can select and deactivate these via **Station selection**. Call the station selection by using the **blue** coloured key.

First, all stations are marked with the  symbol so that their data is displayed in the programme guide (precondition: provided EPG data is broadcast for the respective station). Stations indicated by **E** are analogue terrestrial/cable stations, stations indicated by **T** are DVB-T stations, stations indicated by **C** are DVB-C stations and stations indicated by **S** are DVB-S stations. These stations are available for evaluation in the programme guide.

Select the stations you want to omit from the programme guide one after another and deactivate each one by using **OK**. The  symbol is removed.

## Data capture

After these settings or after each time the set is switched off using the mains switch, the data must first be collected, before switching on the set.

To do this, select the station you have defined as a provider and leave the TV set switched on for about one hour or switch the set to the standby mode. After about two minutes in standby mode, the indicator on the set turns orange. The data acquisition begins and lasts about 1 hour. When data acquisition is terminated, the indicator turns red again. The data are also automatically captured between 2 a.m. and 5 a.m. when the TV is switched to standby.

A prerequisite for data capture is that „Data capture“ is „on“ (for DVB + analogue) in the EPG menu.

Note: If the TV set is switched off using the mains switch or the mains plug is pulled out, all EPG data are lost.

If, for example, you cannot receive any analogue EPG providers or if you only use DVB, you should set the data capture to "on (only for DVB)".

## Switch on TV when marked

You can have the TV switched on automatically from standby at the beginning of the marked programme. If you are not present at the time, a safety prompt makes sure the TV switches off again after 5 minutes.

# Operating modes – Teletext

## Teletext

Teletext transmits information such as news, weather, sports, programme previews and subtitles.

**TEXT** Teletext on/off

|   |                   |
|---|-------------------|
| 100 100 ARD-Text 10.09.04 14:14:42      |                   |
| ARD TEXT                                | Index             |
| Teletext im Ersten                      | > 101             |
| Bulmahn: Bildung statt Eigenheim .....  | 120               |
| Wird auch der Nahverkehr teurer? .....  | 121               |
| Australien: Keine Zugeständnisse .....  | 122               |
| Tote bei Zuganglück in Schweden .....   | 532               |
| Tennis: Haas unterliegt Hewitt .....    | 204               |
| Formel 1: Schumacher erneut vorne ..... | 213               |
| Tagesschau .. 110/112                   | Kultur .....      |
| Wetter .....                            | 170               |
| Sport .....                             | 200/600           |
| TV Guide .....                          | 300/400           |
| Wirtschaft .....                        | 700               |
| Internet: www.ard-text.de               |                   |
| Page selection                          | Inhalt tagesschau |

Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into topic groups and topics. After switching on the teletext, up to 3,000 pages are stored for fast access.

### Page selection with the coloured keys

The coloured bars (in TOP) or the coloured writing (in FLOF) in the next to the last line show you which coloured keys you can use to scroll to topic groups and topics.



**Red:** back to the previously seen page (not in FLOF)

**Green:** on to the next page (not in FLOF)

**Yellow:** to the next topic (only in TOP and FLOF)

**Blue:** to the next topic group (only in TOP and FLOF)

### Other page selection options:



Select one page number specified on the page by using  
**▼ ▲ (Page Catching)**

|   |              |                      |
|---|--------------|----------------------|
| Formel 1: Schumacher erneut vorne ..... |              | 213                  |
| Tagesschau .. 110/112                   | Kultur ..... | 500                  |
| Wetter .....                            | 170          | Gesellschaft ... 530 |
| Sport .....                             | 200/600      | Lotto/Toto .. 666    |
| TV Guide .....                          | 300/400      | Wirtschaft .....     |
| Internet: www.ard-text.de               |              |                      |
| Page selection                          | Inhalt       | tagesschau           |



call.



In **Multiple pages** scroll using **◀ ▶**. You can see which multiples pages can be called in the bottom menu line.

|          |    |         |    |
|----------|----|---------|----|
| Zeitplan |    | Fußball |    |
| 1        | 2  | 3       | 4  |
| 5        | 6  | 7       | 8  |
| 9        | 10 | 11      | 12 |



Call **contents page 100**



Call the **TOP table**

The TOP table is a general list of teletext. You can only call the table for stations that use the TOP operating system.

|  |                |     |
|--|----------------|-----|
| Bulmahn: Bildung statt Eigenheim ..... |                | 120 |
| Wird auch der Nahverkehr teurer? ..... |                | 121 |
| Wetter .....                           |                | 122 |
| Tote bei Zuganglück in Schweden .....  |                | 532 |
| <b>TOP table</b>                       |                |     |
| Übersicht                              | Wetter         |     |
| tagesschau                             | Vorhersage ..  | 204 |
| Wetter                                 | Städte ..      | 213 |
| Sport 1                                | Regional       |     |
| TV Guide                               | Reisen         |     |
| ARD heute                              | int. Städte .. | 500 |
| ARD morgen                             | Biowetter      | 530 |
| FS-Sendungen                           |                | 666 |
| TV Guide 2                             |                |     |
| more ...                               |                |     |
| OK View                                |                | END |

Use **▼ ▲** to select the topic group.

Select the topic column using **▶**.

Select the topic with **▼ ▲** and display page with **OK**.



**Enter the page number directly**

### Displaying teletext pages



Stop self-turning pages (HOLD)



Zoom page: top part - bottom part - normal size (press button several times)




TV picture on/off (**Split Text**)

|   |                   |
|---|-------------------|
| 100 100 ARD-Text 10.09.04 14:14:42      |                   |
| ARD TEXT                                | Index             |
| Teletext im Ersten                      | > 101             |
| Bulmahn: Bildung statt Eigenheim .....  | 120               |
| Wird auch der Nahverkehr teurer? .....  | 121               |
| Australien: Keine Zugeständnisse .....  | 122               |
| Tote bei Zuganglück in Schweden .....   | 532               |
| Tennis: Haas unterliegt Hewitt .....    | 204               |
| Formel 1: Schumacher erneut vorne ..... | 213               |
| Tagesschau .. 110/112                   | Kultur .....      |
| Wetter .....                            | 170               |
| Sport .....                             | 200/600           |
| TV Guide .....                          | 300/400           |
| Wirtschaft .....                        | 700               |
| Internet: www.ard-text.de               |                   |
| Page selection                          | Inhalt tagesschau |

# Operating modes – Teletext

## Programme timer recordings

A video and/or DVD recorder must be connected and logged in in the connection wizard. Call the programme pages of the current station in teletext mode using the Direct recording button . Scroll to the teletext page in which the programme to be recorded is listed if necessary. Select the programme you want to record by with  $\blacktriangledown$   $\blacktriangle$  and confirm with the **OK** button. For "Timer data," select the VCR or DVD recorder and whether you want to record once or a series of times. Confirm with **OK**.

## Teletext menu

MENU

Display teletext menu



Here you will find functions such as

- "Newsflash", this is an on-screen display of the latest messages (e.g. page 111).
- "Reveal" concealed information, e.g. VPS pages in the station preview pages.
- Programme wizard for recording via teletext.

In the settings, you will find menus to define the station preview pages, subtitle pages and personal text pages, and menus to set the character set selection as well as HiText graphics.

# Digital Recorder – About the Digital Recorder system

Your Loewe TV set is equipped with a Digital Recorder that includes a hard disk. You can use this to record and playback picture and sound from TV programmes, like with a VCR or DVD recorder. However, the possibilities of the Digital Recorder are for more versatile than those of a VCR or DVD recorder:

## TV viewing with time shift

The Digital Recorder always records the TV programme currently playing (if the continuous operation is switched on).

- **Time shift**  
You can stop a TV programme at any time and continue playing it later with a time shift. The maximum time shift may be set to 2 hours. The recording starts again from the beginning and the old content is deleted every time you switch stations.
- **Fast navigation by jumping**  
Jump backwards and forwards in the movie at the press of a button. The jump distance is adjustable.  
In addition, the special Loewe function "Smart jump" ensures that for each change in jump direction the jump distance is cut in half. This way you can feel your way quickly to a certain spot in the time shift playback.
- **Fast forward and rewind**  
You can fast forward and rewind at three different speeds in the programme you are viewing with time shift.
- **Slow motion**  
You can watch the programme you are viewing with a time shift at four different slow motion speeds.
- **Subsequent archive recording**  
You can also decide to copy the whole TV programme into the Digital Recorder's archive at the end of a TV programme you have been watching with a time shift.
- **Setting bookmarks**  
During a football match, for example, you can flag goals or exciting scenes. For this, the time-shift recording is converted into an archive recording. For later playback, you can play bookmarks as highlights. 30 seconds before and after the set bookmark are played.
- **Replay function**  
For instance, if you see a football match as live picture, you can jump back 40 seconds at the push of a button and watch the scene again. You see the live picture at the same time in a PIP picture.

## Digital Recorder archive

You can record movies you want to watch later in the Digital Recorder's archive. The archive holds between 20 and 100 hours of movies, depending on the recording quality set.

If EPG or teletext data are available, the Digital Recorder stores the title and additional information about each programme in the archive.

You start playing your recordings from the archive.

If bookmarks were set, these recordings are flagged accordingly. You can then start playback so that the bookmarks are played as highlights.

Select your favourite programme comfortably from the EPG or teletext for recording and watch the programmes later from the Digital Recorder's archive.

An automatic delete manager always ensures there is sufficient recording space for new movies.

- **Sort titles**  
You can have the programmes displayed chronologically or in alphabetical order. This way you can quickly find the movie you want to watch.
- **Edit titles**  
You can change the title of a programme in the archive, if necessary.
- **Parental lock**  
Protect archive recordings from unauthorised access by using the parental lock.
- **Delete protection**  
Set the delete protection for a movie to prevent it from being deleted automatically by the Delete Manager.
- **Copy**  
Set the delete protection for a movie to prevent it from being deleted automatically by the Delete Manager.

# Digital Recorder – About the Digital Recorder system

## Archive recording

You can playback a recorded programme from the archive at the same time as recording a TV programme into the archive. You can also play the same programme you are currently recording with a time shift. During archive recording, you can also watch another programme.

- **Immediate recording**  
Record interesting programmes straight into the archive with the record button. You can also transfer programmes you have watched with a time shift to the archive at the end of the programme without losing what you have already recorded.
- **Timer-controlled**  
Select your favourite programme comfortably from the EPG or teletext for recording. The Digital Recorder records up to 50 timer recordings - even in your absence. Watch the programmes later from the Digital Recorder's archive.
- **Serial recording**  
Use the serial recording tolerance setting to avoid recording a serial more than once when it is broadcast more than once a day. The serial is only recorded if it begins within a given time interval (start time + serial recording tolerance).
- **Time shift TV with archive recording**  
If you have programmed recording and come home later, you can watch the movie with a time shift while the rest is still being recorded.

## Archive playback

All the recorded programmes can be selected in the archive and played. During archive playback, another programme can be recorded into the archive.

- **Fast forward and rewind**  
Fast forward and rewind the movie at three different speeds.
- **Slow motion**  
Watch the playback at four different slow motion speeds.
- **Fast navigation by jumping**  
Jump backwards and forwards in the movie at the press of a button. The jump distance is adjustable.  
In addition, the special Loewe function "Smart jump" ensures that for each change in jump direction the jump distance is cut in half. This way you can feel your way quickly to a certain spot of the recording.

- **Bookmarks**  
To find interesting scenes in a movie later, you can manually set bookmarks. In addition, there also are automatically set bookmarks every time a broadcast is changed. You can jump to each of the bookmarks at the press of a button in succession.
- **Playing highlights**  
For recordings with manually set bookmarks, you can limit the playback to the highlights. You then see the scenes 30 seconds before and after the set bookmarks. If there is more than one bookmark, the highlights are played one after the other.
- **Cut/Hide functions**  
Cut out superfluous sections before and after a recorded programme. Set hiding marks around uninteresting sections to watch a movie without interruptions or to archive it on VCR/DVD-R.

## Limitations during PIP operation

If on the main screen you see the live picture and you open the PIP picture, generally the background recording for time-shift TV is ended and deleted. With archive recording and time shift TV, there may be limitations on the stations which you can select for the PIP picture.

# Digital Recorder – Settings for the Digital Recorder

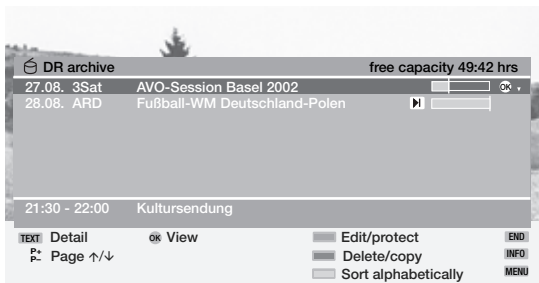
You can use the Digital Recorder with the values set at the factory initially. In this case, please continue reading on page 33.

However, you should change the settings later to adjust the Digital Recorder to meet your own requirements. In the process, you can determine the recording quality and the recording capacity of the hard disk for analogue TV signals, you can set the Digital Recorder continuous operation for viewing with a time shift, the maximum time shift, the jump distance, Smart jump and the serial recording tolerance.

You can adjust the settings in the Digital Recorder menu, which is a sub-menu of the DR archive.



Call the archive with the **red coloured key**.



MENU

Call the Digital Recorder menu with the **MENU** button.



## Switching Digital Recorder continuous operation on/off

Recording takes place on a constant basis with the Digital Recorder continuous operation "on". You can then watch TV with a time shift at any time. Only archive recordings and archive playback are possible in the "off" mode. The factory default setting is the "on" mode.



Mark "Digital Recorder continuous operation".



For the setting, mark the menu line below.



Select "on" or "off".

## Setting recording capacity/quality

For signals from analogue terrestrial/cable stations, set the recording quality to very high, high, medium or standard. Signals from DVB stations are recorded directly, and therefore always at high quality. In the list above, you can see the recording capacity still available for the Digital Recorder (call up with the **INFO** button if necessary). Select a higher quality if you intend to copy the programme to a VCR or DVD recorder.

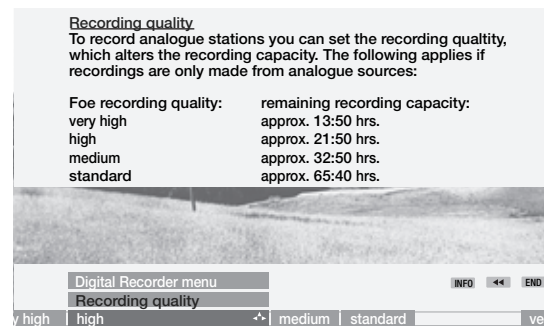
The factory default setting for the recording quality is "high".



Mark the "Recording quality".



For the setting, mark the menu line below.



Select the recording quality.

## Setting maximum time shift

This time indicates the maximum possible time between the time shift picture and the live picture without losing any of the programme. It may be between 30 minutes and 2 hours. The factory default setting is "60 min". You can trace the programme back for this time. If you stop the programme for longer than the set time, the TV set switched to the playback mode.



Mark "Maximum time shift".



For the setting, mark the menu line below.



Select the time.

# Digital Recorder – Settings for the Digital Recorder

## Inform about hidden sections

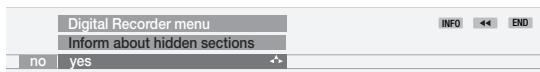
For the archive playback, you can hide parts of the recording so that these parts are skipped when you play the recording later or copy it to a recorder. When you reach the start of a hidden section during playback, the system informs you of this and you can undo the hide setting. The factory default setting for this is "yes".



Mark "Inform about hidden sections".



For the setting, mark the menu line below.



Select "yes" or "no".

## Setting the jump distance

For viewing with a time shift and for the archive playback, you can set a jump distance (in minutes) to jump forwards or backwards comfortably in the movie with the drive buttons ◀ or ▶. Or you can switch the jump distance off so that jumping is not possible ("no"). The factory default setting is 2 minutes jump distance.



Mark "Jump distance".



For the setting, mark the menu line below.



Enter the time with the numeric buttons on the remote control (always enter two digits for 01 to 15 minutes).

## Switching Smart jump off/on

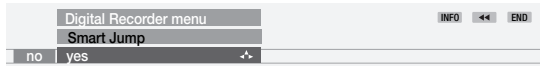
By using an intelligent jump function, you can quickly and easily feel your way to a certain point in the recording (with a time shift or in the archive). After each change in direction when jumping, the jump distance is cut in half. Refer to the next page for more information on the application. The factory default setting has Smart jump switched on.



Mark "Smart jump"



For the setting, mark the menu line below.



Select "yes" or "no".

## Setting serial recording tolerance

To avoid recording a serial episode more than once when it is shown several times a day, a tolerance time must be entered.

The serial is then only recorded when it starts within the start time  $\pm$  serial recording tolerance. A serial tolerance of  $\pm$  30 minutes is the factory default setting.



Mark the "Serial recording tolerance" menu item.



For the setting, mark the menu line below.



Enter the time with the numeric buttons on the remote control (always enter two digits for 01 to 60 minutes).

## Setting pre-record time and post record time

You can set a pre-record and post record time for timer recordings made without VPS. This reduces the risk of parts of the programme not being recorded because it starts earlier and/or finishes later. There is no factory default setting for the pre-record time; the factory default setting for the post record time is 5 minutes.



Call the TV menu in the TV mode.



Mark the "Recording" menu item.



Mark for the menu line below.



Mark "Pre-record time" and "Post record time".



Enter the time with the numeric buttons on the remote control (always enter two digits for 01 to 15 minutes, and for the post record time 01 to 60 minutes).

# Digital Recorder – TV viewing with time shift

The Digital Recorder continuous operation is switched on as the factory default setting. The TV programme you are watching is recorded automatically.

In DR continuous operation the DR+ display lights green. If the DR continuous operation is switched off, the DR+ display lights up white.

**Note:** Programmes with copy protection (e.g. Macrovision) cannot be watched with a time shift for legal reasons.

## Interruption



You want to interrupt a programme to answer a phone call, for example. Press the Pause button **||**.



The TV picture freezes and the Digital Recorder display appears.

Above, you can see the station number and name, and if EPG or teletext data are available the start and end of the current programme and its title.

The time at which the time shifted recording begins is displayed in front of the bar. The time at which the time shift memory will be completely full is shown after the bar. The grey bar indicates how much of the available recording time has been used up. The time displayed inside the bar is the time at which the Pause button was pressed.

## Continue (Viewing with time shift)

You want to carry on watching the programme at the end of the phone call.



Press the Pause button **||** again or the Play button **▶**.



Now you will see the TV programme with a time shift from exactly the point in time you first pressed the Pause button. The Play symbol appears in place of the Pause symbol.

## Switching to the live picture



Press the Stop button **■**.

You will then see the live picture of the programme.

## Jumping

If a jump distance has been set, you can quickly jump while viewing with a time shift by briefly pressing the drive buttons **◀▶** in the jump distance set; this enables you to jump past uninteresting sections quickly.



jump forwards ...



... or backwards



## Smart jump

The Smart jump function is included to enable fast and easy access to a certain place within the programme which has been recorded with a time shift. The factory default setting has Smart jump switched on.

When Smart jump is switched on, the jump distance is cut in half after each change in the jump direction while jumping.

The playback symbol **▶** is yellow when the Smart jump function is active.

For instance, you are looking for the beginning of a programme.

In this case, press the button **◀◀** several times to jump back (pre-set jump distance).

If you have jumped past the beginning of the programme, jump in the opposite direction. Briefly press the button **▶▶**.

This jump in the opposite direction is only carried out for half the jump distance. Now jump forward using **▶▶** until you see the beginning of the programme.

If you have jumped past the beginning of the programme, jump back using **◀◀**. In the process, the jump distance is cut in half again.

By cutting the jump distance in half when changing the jump direction, you can feel your way up close to a particular section.

The pre-set jump distance is used again if you jump more than three times in the same direction or if the Digital Recorder display disappears.

# Digital Recorder – TV viewing with time shift

## Fast forward and rewind

You can fast forward and rewind at three different speeds during time-shifted TV viewing or archive playback. No sound is audible during winding.



Press the Fast Forward **▶▶** or Rewind **◀◀** button a little longer.



Increase speed: press again briefly.

The speed increases every time you press the button until eventually switching back to the initial speed.



Playback begins automatically upon reaching the end of the recording. You are about 2 seconds behind the live picture or when rewinding at the beginning of the time-shifted recording.



Press the Play button **▶** when you reach the point from which you want to continue watching.



## Slow motion forwards

If Pause is active (freeze picture) you can play (forward only) at four slow-motion speeds. No sound is audible during slow motion.



Press the Pause button **||**.



Briefly press the Fast Forward button **▶▶**.



Increase speed:



Press the Fast Forward button **▶▶** several times briefly.



The speed increases every time you press the button until eventually switching back to the initial speed.

## Highlight function

For example, you want to flag interesting scenes and goals of sports programmes in order to watch them again when playing the recording.

You can set bookmarks while you are watching the live picture or viewing with a time shift.



Press the Play button **▶** little longer in order to set the bookmark.

The time-shifted recording that is already active in the background is converted into an archive recording. Every time the Play button **▶** is pressed down again a little longer, a new bookmark is set.

**Note:** If no programme info is available from teletext or EPG, the "Recording duration" menu appears after pressing the Play button for the first time. Select the desired recording duration and confirm using **OK**.

Recordings that include manually set bookmarks can be played as highlights. The chapter 'Archive playback' describes how this works on page 41.

## Replay function

For example, you would like to watch interesting scenes or goals in sports programmes again straight away. This is possible if you are viewing a live picture.



Briefly press the Rewind button **◀◀** to repeat the scenes.



The set jumps back 40 seconds into time-shift mode. The playback flag is yellow (Smart jump active). If the Smart jump took you back too far, you can jump forward 20 seconds with the Fast forward button **▶▶**.

The live picture is displayed at the same time as small PIP. This PIP picture can be closed by pressing the **PIP** button without having to leave the time-shifted playback.

Terminate the replay function with the Stop button **■**. Now you see the live picture again.

# Digital Recorder – TV viewing with time shift

## Converting a time-shifted recording into an archive recording

You can convert the programme you are currently recording with a time shift into an archive recording.



Press the Record button.



If you want to transfer the current programme to the archive, mark "current programme" (only if EPG or teletext data are available) or mark one of the given times or mark "???" and enter the recording duration with the numeric buttons on the remote control and confirm with **OK**.



If the beginning of the programme was recorded, it is adopted from the beginning, otherwise from the point in time you switched over to this station. This way you can also decide to transfer a recording to the archive at the end of the programme. The whole programme is still transferred to the archive, providing it was already recorded.

You can also transfer a programme which has already finished to the archive. Just rewind to the programme you want to archive and start recording with "current programme".

The "Timer data" menu is displayed.



If the DVB subtitles are switched on continuously (see page 36, chapter "Recording with DVB subtitles"), you see the item "DVB subtitles (yes/no)" instead of the "VPS" menu item. Here, you can switch the DVB subtitles off for the current recording.

**Note:** If you want to record a programme without DVB subtitles ("DVB subtitles" – "no"), the time-shifted recording that has been running until now is stopped and deleted. The archive recording starts after you have confirmed the timer data with **OK**.

Check the other timer data, change them if necessary and then confirm with **OK**.

The DR+ display changes from green to red with the start of an archive recording.

During the archive recording, the bar showing the recording progress is red and the "REC" message is shown for a current archive recording.



When the programme to be recorded is selected, press the Play button ► to show the Digital Recorder's display.



You can switch over to a different station during an archive recording, providing your TV set has another tuner. The recording process is continued.

To switch back to the station you are currently recording, press the play button ►. You can also switch off the TV set into the stand-by mode. The recording process is continued.

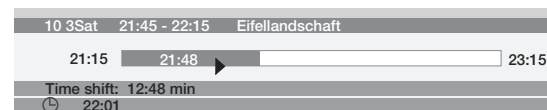
## Status display when recording with a time shift and for archive recording

When you call the status display, the recording progress bar is displayed.

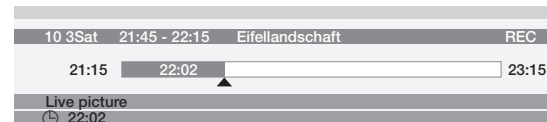


Press the **END** button to show the status display.

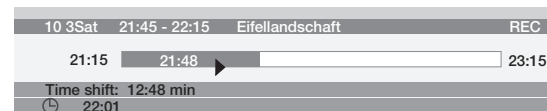
Display with time shift:



Display with live picture during an archive recording:



Display with time shift during an archive recording.



For archive recording, the progress bar is red; otherwise it is grey.

# Digital Recorder – Archive recording

## Immediate recording

You can start archive recording with the Record button, as described above. The system starts recording from the station you are currently watching.



Start immediate recording



Mark "current programme" (only if EPG or teletext data are available) or mark one of the given times or mark "???" and enter the recording duration with the numeric buttons on the remote control and confirm with **OK**. If the DR continuous operation is switched off, recording begins after pressing the **OK** key button (in this case there is no transfer of the beginning of the programme as described previously).



The "Timer data" menu is displayed.

If the DVB subtitles are switched on continuously (see chapter "Recording with DVB subtitles" on this page), you see the item "DVB subtitles (yes/no)" instead of the "VPS" menu item. Here, you can switch the DVB subtitles off for the current recording.

Note: If you want to record a programme without DVB subtitles ("DVB subtitles" – "no"), the time-shifted recording that has been running until now is stopped and deleted. The archive recording starts after you have confirmed the timer data with **OK**.

Check the other timer data, change them if necessary and then confirm with **OK**.

The DR+ display lights red with the start of an archive recording.

Note: Programmes with copy protection (e.g. Macrovision) cannot be watched with a time shift for legal reasons.

## Setting bookmarks during archive recording

During immediate recording or a running timer recording, you can set bookmarks at interesting sections (press the Play button **▶** somewhat longer). You will see the message "Bookmark set!". This enables you to find this part of the recording quickly during playback. You can set up to 15 bookmarks.

In addition, bookmarks are set at the beginning and the end of every broadcast automatically.

## Viewing with time shift during archive recording

As laid out in the chapter "TV viewing with time shift," you can interrupt the programme with the Pause button **⏸**. The recording process is continued. You can end the interruption by pressing the Pause button **⏸** or the Play button **▶**. You are now viewing the archive recording with a time shift.

Jumping, fast forwarding and rewinding and slow motion all work as laid out for the time-shifted TV viewing. Back to the live picture – press the Stop button once.

## Watching other stations during archive recording

After you have started the recording, you can switch to another station, providing your TV set has another tuner.

The recording process is continued in the background.

To switch back to the station you are currently recording, press the play button **▶**.

If your TV set does not have another tuner, you cannot switch to another station.

The station is blocked during recording.

## Viewing another movie from the archive during archive recording

After you have started the recording, you can also watch a programme you have already recorded.

To do this, call the DR archive with the **red coloured key**.

Select the programme and start the playback with the **OK** button.

The recording process is continued in the background.

## Switching off the TV set during recording

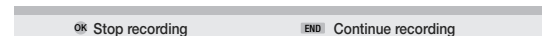
You can switch off the TV set during recording. Of course, only into the stand-by mode, not with the mains switch. The indicator on the TV set lights orange. The recording process is continued in the stand-by mode.

## Stop recording early

If you want to terminate an active archive recording ...



Press the Stop button



confirm with the **OK** button.

The recording process is ended. The material recorded up to now is saved on the hard disk and may be played back via the DR archive.

You can also end a running recording by deleting the entry in the timer list. You can find more information on this on page 39.

## Recording with DVB subtitles

Switch on the DVB subtitles. To find this setting, go to TV menu - Settings - Miscellaneous - DVB subtitles. Select DVB subtitles "for translation" or "for the Hearing Impaired" here.

You cannot switch to another station during an archive recording.

Subtitles of analogue Teletext cannot be recorded.

When playing the recording, the subtitles cannot be hidden or the language selection changed.

Note: Leave the DVB subtitles switched off if you usually do not use them or they are not broadcast. Only by doing this will you have the possibility to switch to another station during an archive recording.

# Digital Recorder – Archive recording

## Timer recording

As with a VCR, you can make timer recordings with the Digital Recorder. The Digital Recorder is of course much more comfortable to handle.

You can programme the timer using the EPG, teletext or manually. You can programme up to 50 timer recordings.

If you have programmed timer recordings, the TV set may only be switched off into the stand-by mode.

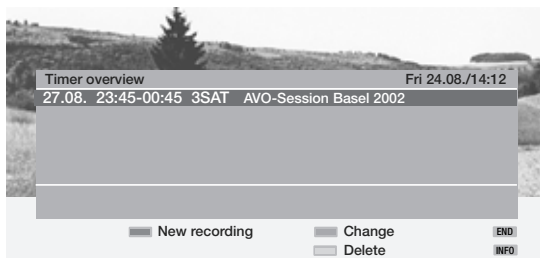
Do not switch the TV set off with the mains switch and do not pull the mains plug from the power outlet. If you do, then the timer recording will not take place.

If a timer recording is made in standby mode, the indicator on the TV set lights orange and the DR+ display lights red in addition.

Programmed timers for the Digital Recorder are displayed in the timer list.



Call timer overview



Completed timer recordings of the Digital Recorder are shown in the DR archive.



**red coloured key:** Call the DR archive.



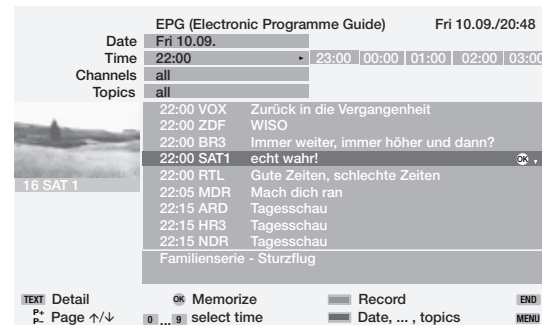
## Programming a timer recording with the EPG



Call EPG



Mark the desired programme.



Press the **red coloured key** to programme the programme as a timer recording. The Record dialogue box opens.



You can programme serial recordings in the menu line "Recording type". The timer then searches for the serial in the station set every day. Please see the instructions for setting the serial recording tolerance on page 32.

You can lock the recording with the parental lock by pressing the **green coloured key** and with the **yellow coloured key** you can protect the recording from being deleted automatically.

If the DVB subtitles are switched on continuously (see page 36, chapter "Recording with DVB subtitles"), you see the item "DVB Subtitles (yes/no)" instead of the "VPS" menu item. Here, you can switch the DVB subtitles off for the current recording.

Check the other timer data, change them if necessary and then confirm with **OK**.

A red dot is set in front of the title of the programme in the EPG.

If a programme is already marked with a red dot, you can delete the programmed timer by pressing the **red coloured key** (the red dot disappears).

# Digital Recorder – Archive recording

## Programming a timer recording via analogue teletext

Call the station on which you want to make a timer recording.

TEXT

Call the teletext.



Press the Record button. The first programme preview page is displayed.



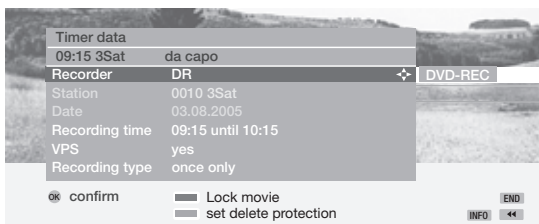
Select the programme page containing the programme you wish to record with the **green coloured key**.



Select the time when the programme begins with the arrow buttons  $\blacktriangledown$   $\blacktriangle$ .



Press **OK** to programme the programme as a timer recording.



Check the timer data, change them if necessary and then confirm with **OK**. You can lock the recording with the parental lock by pressing the **green coloured key** and with the **yellow coloured key** you can protect the recording from being deleted automatically.

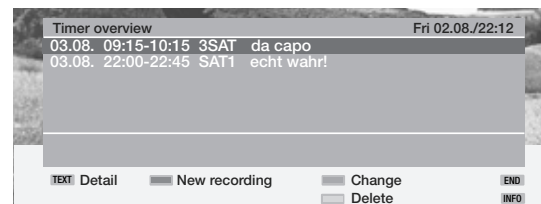
If the DVB subtitles are switched on continuously (see page 36, chapter "Recording with DVB subtitles"), you see the item "DVB Subtitles (yes/no)" instead of the "VPS" menu item. Here, you can switch the DVB subtitles off for the current recording.

Check the other timer data, change them if necessary and then confirm with **OK**.

## Programming a timer recording manually



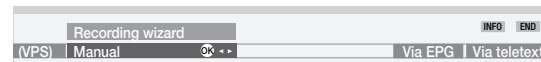
Call the timer list.



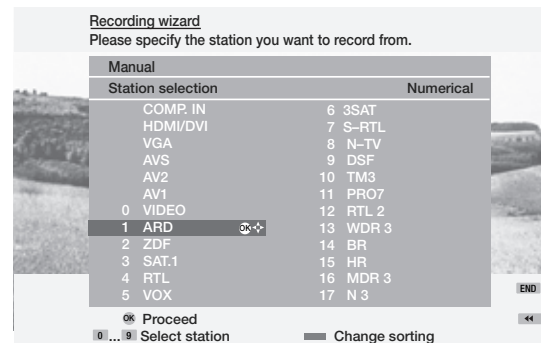
Press the **red coloured key** to programme a new recording.



Select "Manual" with the arrow buttons  $\blacktriangleleft$   $\blacktriangleright$ .



Start programming with **OK**.



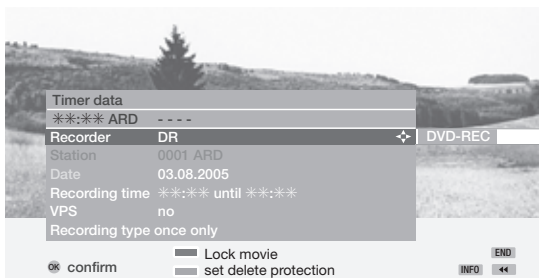
Select the station to be recorded ...



... and adopt with **OK**.

# Digital Recorder – Archive recording

The "Timer data" menu is displayed.



In the "Recorder" menu line, select "DR" for Digital Recorder with the arrow buttons ◀ ▶. For "VPS", select whether or not VPS is to be used (if it is available). Enter the date and the recording time for the timer recording with the numeric buttons on the remote control. Select under recording type whether you want to make a recording once only, daily, Mon-Fri or weekly.

You can lock the recording with the parental lock by pressing the **green coloured key** and with the **yellow coloured key** you can protect the recording from being deleted automatically.

If the DVB subtitles are switched on continuously (see page 36, chapter "Recording with DVB subtitles"), you see the item "DVB Subtitles (yes/no)" instead of the "VPS" menu item. Here, you can switch the DVB subtitles off for the current recording.

Confirm the timer data with **OK**.

## Deleting programmed timer entries

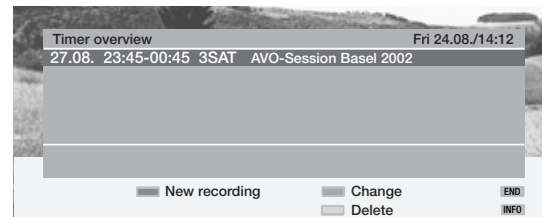
Use this function in the timer list if you want to delete recordings already programmed or end a running timer recording.



Call timer list



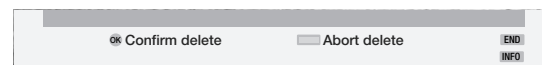
Mark the timer to be deleted



press the **yellow coloured key** to delete the timer data



confirm with **OK**.



The letters of a timer currently active are red. In this case, the recording is stopped.

## The Delete Manager

The Delete Manager always makes sure there is enough memory space on the hard disk for new recordings..

When the capacity of the hard disk is almost exhausted, the old recordings are deleted.

Recordings which you have marked with a delete protection are not deleted by the Delete Manager. You can delete these recordings manually.

Setting and cancelling delete protection, see page 44.

To avoid loss of data, we recommend you to copy important recordings onto video tape or a writable DVD.

Delete the recordings from the Digital Recorder after copying.

Loewe is not liable for data loss on the Digital Recorder's hard disk.

# Digital Recorder – Archive playback

You can find a directory of your recordings in the DR archive. You can start playback, delete or copy recordings and call the timer from this list. Via "Edit/protect," you can change the name of an archive entry and activate or deactivate a delete protection.

## Call the DR archive



Call the DR archive (red coloured key).



You can switch between alphabetical and chronological sorting with the **blue coloured key**.

The bar (on the right in the overview) shows you how much of the recording has been watched. The bar is empty for recordings which have not been watched; recordings which have been watched entirely have a bar filled completely; partially watched recordings have a bar which is filled for the parts already watched. If other programme data are available from the EPG or teletext, these are shown below the archive list for the entry just marked. Other information about the recording can be called with the **TEXT** button, if this is offered.

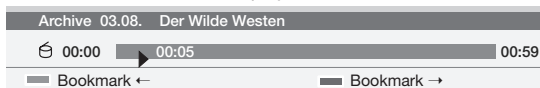
## Playing from the archive




Select a recording with the arrow buttons.



Press the **OK** button to start playback.



## Playing highlights from the DR archive

Recordings with manually set bookmarks are flagged with  in front of the bar. You can use the highlight playback for these.




Select a recording flagged with .



Press the Play button .

You will find further information on playing highlights on the following page.

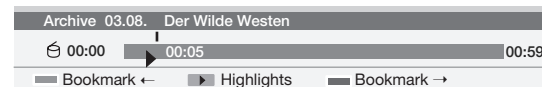
## Setting bookmarks

While playing an archive recording, you can set bookmarks by pressing the Play button  for a little longer. If the drive display does not appear, you will see the "Bookmark set!" message. A small bookmark symbol is set above the bar for the playback. You can set up to 15 bookmarks.

This makes these places easy to find later.



Set bookmark (press button for a little longer)



Setting another bookmark



Automatically set bookmarks are grey. Manually set bookmarks are blue.

**Hint:** Set a bookmark at the end of an uninteresting passage to skip over it quickly or to hide that section later.

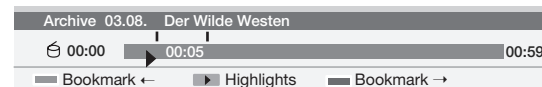
## Jumping to bookmarks



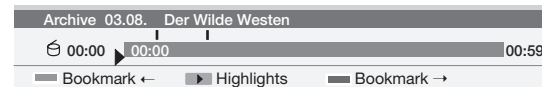
Show the drive display during archive playback.



Bookmark forward (**blue coloured key**)



Bookmark backward (**red coloured key**)



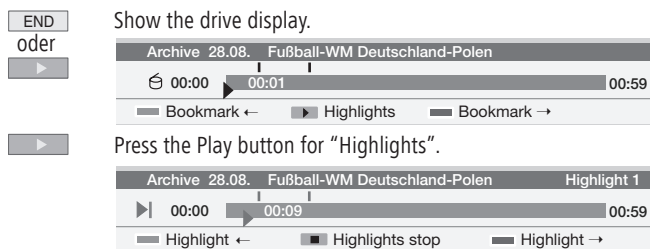
Additionally, a bookmark is set at the beginning and end of the broadcast automatically which you can jump to with the **red** and **blue coloured keys**.

# Digital Recorder – Archive playback

## Playing highlights

If there are manually set bookmarks in the current playback, they can be played as highlights one after the other automatically. 30 seconds before and after the set bookmark are played.

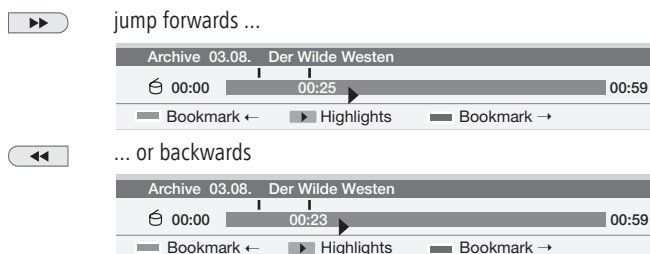
The highlights are numbered chronologically and displayed consecutively, i.e. the playback always starts with highlight 1 again. The playing of highlights can be terminated by pressing the Stop button ■.



Start playing highlights. As long as this drive display is shown, you jump to the next highlight with the blue coloured key and to the previous highlight with the red coloured key. You can also jump to the next highlight by pressing the Play button ▶ again. This function is also available if no drive display is shown. Pressing the Stop button ■ ends playing the highlights.

## Jumping

If a jump distance has been set, you can jump by briefly pressing the drive buttons ◀▶.



## Smart jump

The Smart jump function is included to enable fast and easy access to a certain place within the recording which is currently being played. The factory default setting has Smart jump switched on.

When Smart jump is switched on, the jump distance is cut in half after each change in the jump direction while jumping.

The playback symbol ▶ is yellow when the Smart jump function is active.

For instance, you are searching for the beginning of the section where a portion of the recording is to be hidden.

In this case, for example, press the button ▶▶ several times to jump forward (pre-set jump distance).

If you have jumped past the desired part of the recording, jump in the opposite direction. Briefly press the button ◀◀. This jump in the opposite direction is only carried out for half the jump distance. Now press ◀◀ to jump back out of the area that is to be hidden.

If in the process you jump past the place where you want to start the hide process, then jump forward using ▶▶. In the process, the jump distance is cut in half again.

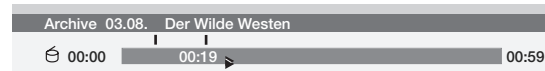
By cutting the jump distance in half when changing the jump direction, you can feel your way up close to a particular section.

The pre-set jump distance is reinstated if you jump more than three times in the same direction or if the Digital Recorder display disappears.

## Fast forward and rewind

You can fast forward and rewind at three different speeds during archive playback. No sound is audible during winding.

▶▶▶ Press the Fast Forward ▶▶▶ or Rewind ◀◀◀ button a little longer.

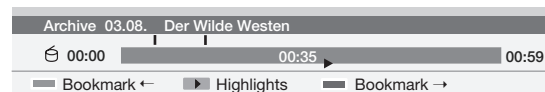


▶▶ Increase speed: press again briefly.

The speed increases every time you press the button until eventually switching back to the initial speed.



▶ Press the Play button ▶ when you reach the point from which you want to continue watching.

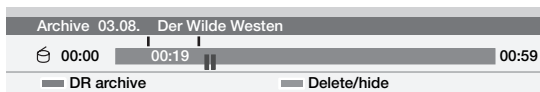


You will see a freeze picture when you reach the end of the recording. When rewinding reaches the beginning, the Digital Recorder switches to playback mode.

# Digital Recorder – Archive playback

## Pause (freeze picture)

 Switch to freeze picture with the Pause button .



 To continue playback press the Play button  or press the Pause button again .

## Slow motion

If Pause is active (freeze picture) you can play (forward only) at four slow-motion speeds. No sound is audible during slow motion.

 Press the Pause button .



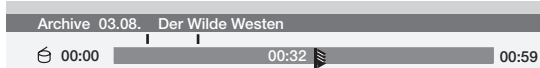
 Briefly press the Fast Forward button .



Increase speed:



 Press the Fast Forward button  several times briefly.

The speed increases every time you press the button until eventually switching back to the initial speed.



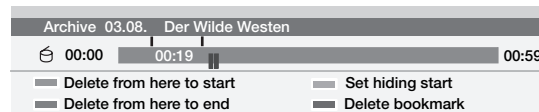
## Deleting parts of the recording


You can delete parts of an archive-recording up to the beginning and up to the end.

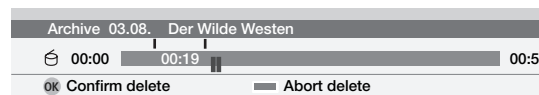
 Press the Pause button  during archive playback at the point from which you want to delete up to the beginning or end of the archive recording.




 Now press the **yellow coloured key** for "Delete/hide".



 Delete from here to the beginning with the **red coloured key**, from here to the end with the **green coloured key**.



 Confirm deletion with the **OK button** or cancel it with the **red coloured key**.



In our case, 19 minutes were deleted so that the remaining length of the recording is only 40 minutes.

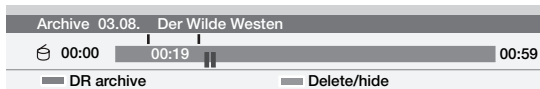
# Digital Recorder – Archive playback

## Hiding sections of the recording

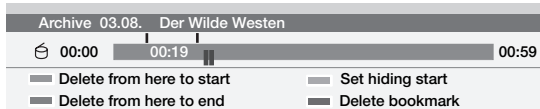
You can hide sections of an archive recording. For future playback and when transferring to a DVD or video recorder, the hidden sections are skipped.



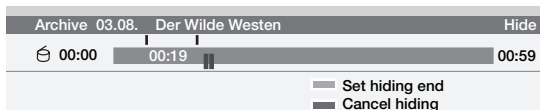
During the archive playback, press the Pause button **II** at the place you want to begin hiding.



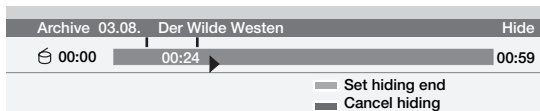
Now press the **yellow coloured key** for "Delete/hide".



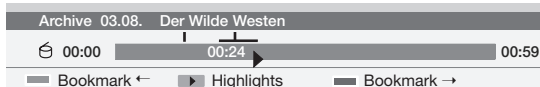
Set the beginning of the hidden section with the **yellow coloured key**.



Continue playing by pressing the Pause button **II** or the Play button **▶**.



Press the **yellow coloured key** when you want to end hiding.



You will see a line above the bar that indicates the hidden section of the recording. If you start playback again before the beginning of the hidden section, the hidden section is skipped. If "yes" is set in the Digital Recorder settings for "Inform about hidden sections," you will see the message "Hidden area was skipped!". You can then show the hidden section again permanently by pressing the **blue coloured key**.

## Deleting bookmarks

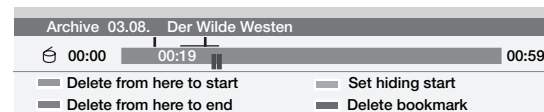
You can delete all manually set bookmarks. Bookmarks that were set automatically at the beginning and the end of a broadcast cannot be deleted. Manually set bookmarks are blue, automatically set bookmarks are grey.



During archive playback, press the Pause button **II**.



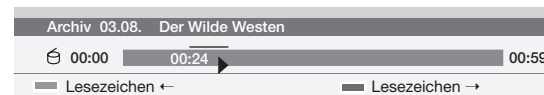
Now press the **yellow coloured key** for "Delete/hide".



Delete the manually set bookmarks with the **blue coloured key**.



Continue playing by pressing the Pause button **II** or the Play button **▶**.



Automatically set bookmarks are not deleted.

**Note:** In addition, you have the option of deleting the bookmarks via "DR archive – delete/copy". See page 45.

# Digital Recorder – Archive playback

## Copying recordings from the archive

This is simple with a Loewe VCR or DVD recorder equipped with Digital Link or Digital Link Plus and with units from other manufacturers equipped with a similar system (according to protocol 50).

 Call the DR archive (red coloured key).



 Press the yellow coloured key for "Delete/copy".



Select the recording to be copied.



Confirm with **OK**, select others if necessary and confirm with **OK**. Titles to be copied are displayed in blue.




Press the blue coloured key for "Copy".



Select the recorder in the Copy menu and change the recording date and time if necessary and confirm with **OK**.

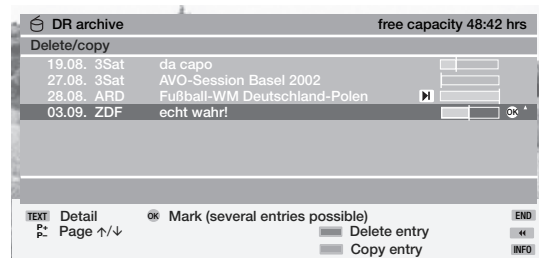
The DR archive is displayed again. You will see a red dot in front of the bar for the programmed copying for which an entry is also made in the timer list.

## Deleting recordings from the archive

 Call the DR archive (red coloured key).



 Press the yellow coloured key for "Delete/copy".



Select the recording to be deleted.



Confirm with **OK**, select others if necessary and confirm with **OK**. Titles to be deleted are displayed in blue.



Press the yellow coloured key for "Delete entries".



To confirm the deletion, press **OK** again. The recording is deleted.

The DR archive is displayed again.

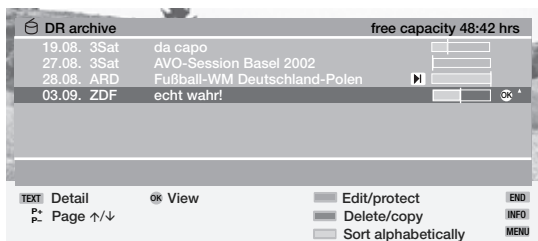


The movie has been removed from the DR archive.

# Digital Recorder – Archive playback


## Deleting bookmarks

 Call the DR archive (red coloured key).



 Press the yellow coloured key for "Delete/copy".



Select the recording for which you want to delete the bookmarks. Recordings with manually set bookmarks are flagged with  in front of the bar.



Confirm with **OK**, select others if necessary and confirm with **OK**. The selected titles are displayed in blue. If there are manually set bookmarks ...



... press the green coloured key for "Delete bookmark".

All of the manually set bookmarks are deleted. Automatically set bookmarks are not deleted.

## Changing the title of a recording

 Call the DR archive (red coloured key).



Press the green coloured key for "Edit/protect".



Select the title to be changed.



Press the **OK** button for "Rename".

Underneath the first letter of the title, you will see a line which indicates the current input position for the letter. Enter the letters in sequence using the numeric buttons on the remote control (like on a mobile phone keypad).



Conclude the entry with **OK**.

## Locking/unlocking a movie (parental lock)

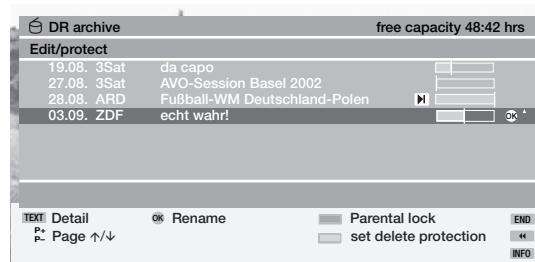
You can lock movies that your children are not permitted to view, for instance. Viewing is only possible if the secret code is entered.



Call the DR archive (red coloured key).



Press the green coloured key for "Edit/protect".



# Digital Recorder – Archive playback



Mark the title that is to be locked or released.



Press the **green coloured key** for "Parental lock". The system requests you to enter your secret code.

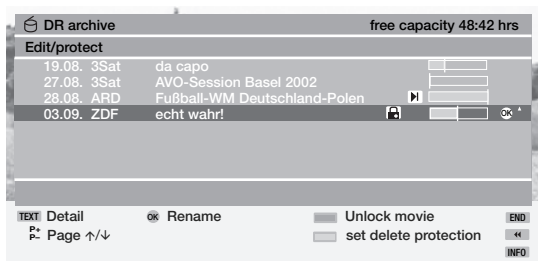



Enter your secret code with the numeric keys of the remote control.

The DR archive opens again.



Press the **green coloured key** for "Lock movie".



You can mark additional titles and lock or release them respectively using the **green coloured key**. A lock symbol  appears in front of the bar when the lock is activated.

## Viewing a locked movie



Call the DR archive (**red coloured key**).



Mark the movie and press **OK**.

The system requests you to enter your secret code. After you enter your secret code, all the locked entries are legible in the DR archive and the desired movie can be started by pressing **OK**.

## Setting/cancelling delete protection

To prevent important recordings being deleted automatically by the Delete Manager, you should set a delete protection. Cancel the delete protection again after copying to a video cassette or DVD.



Call the DR archive (**red coloured key**).




Press the **green coloured key** for "Edit/protect".



Select the title for which you want to set/cancel a delete protection.



Press the **yellow coloured key** for "Set/cancel delete protection."

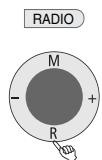
You can select other titles and set or cancel the delete protection with the **yellow coloured key**. The  symbol appears in front of the bar when the delete protection is activated.



# Operating modes – Radio

## Radio

Radio stations can only be received via DVB. If you do not have any DVB radio reception, you can play a sound signal from an external device using the TV set via the sound/AV inputs.



Use the **RADIO** button on the remote control or the **R** on the control ring of the TV set to switch the radio on or off.

| Radio:       | 8 DLF | Numerical     |
|--------------|-------|---------------|
| AUDIO IN     |       | 9 HR-INFO S   |
| AVS          |       | 10 MDR INFO S |
| AV2          |       | 11 MDR FIGA S |
| AV1          |       | 12 NDR KULT S |
| 1 B5 AKTL S  |       | 13 SWR1 S     |
| 2 BAYERN 1 S |       | 14 SWR2 S     |
| 3 BR4 KLSK S |       | 15 WDR3 S     |
| 4 SUNSHINE S |       | 16 WDR5 S     |
| 5 ROCK ANT S |       | 17 OESTER 1 S |
| 6 ANTENNE S  |       | 18 MDR JUMP S |
| 7 DLR S      |       | 19 JAZZ RAD S |
| 8 DLF S      |       | 20 BLUSAT20 S |

18:00 - 18:10 Nachrichten

|                      |                  |      |
|----------------------|------------------|------|
| OK Switch to ...     | Scan stations    | END  |
| 0...9 Select station | Previous station | MENU |
| Screen off/on        | Change sorting   | EPG  |

You can see a station list of the radio stations. Digital DVB-T stations are indicated by **T**, DVB-C stations by **C** and DVB-S stations by **S**. Encrypted stations are additionally indicated by **Ⓢ**. Ask your specialist dealer about decoders or the use of a CI module and a smartcard for the reception of encrypted stations.

When time and title are sent by the marked station these data are displayed at the bottom of the station list.

When the station list is shown you can switch off the screen with the **red** coloured key. The LED indicator on the set changes from green to orange. You can switch the screen display back on by using the **OK** key, **red** or **blue** coloured keys, by using **RADIO**, **MENU** or **END** on the remote control or by using **R** on the control ring of the TV set.

Station switching with dark screen: by using **-** or **+** on the control ring of the TV set or by using the remote control **P-** and **P+** or by using the numeric buttons.

The sound menu can be called in the radio mode using the button.

## Radio menu

**MENU**

Call radio menu

| Radio menu | INFO     | END             |
|------------|----------|-----------------|
| Sound      | Stations | Timer functions |
| Treble     | ...      |                 |

In the radio menu, as in TV mode, you can set the sound, search for radio stations and store them (automatically or manually), delete stations from the list, rearrange them or change names and set the switching off and alarm functions.

## EPG - Programme guide

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






**\* EPG**

EPG- Call Programme guide

# Operating additional equipment

## Login and connect equipment

You have logged in and connected all connected equipment in the initial start-up. If you want to connect other equipment or disconnect equipment, call the connection wizard.

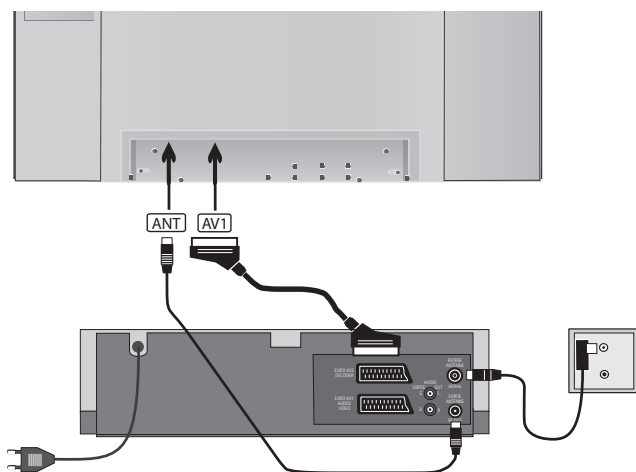
-  Call up the TV menu
-  Select "Connections"
-  Select the submenu line
-  Select "New devices/modifications" and ...
-  Call with OK.

State what equipment you want to connect. State whether a piece of audio equipment is to be connected (more details as of page 50). The connection wizard then shows you which sockets you should connect this equipment to. Then connect the equipment to these sockets according to the connection diagram.

### Connecting video/DVD recorders

In addition to the connection via the Euro-AV sockets, you also have to connect the antenna (only for terrestrial antenna or cable systems) through the VCR/DVD recorder to the TV set. The antenna signal is then available to the video/DVD recorder and the TV set.

Note: Use Euro-AV cables with right-angled plugs as shown.



**Search for and store the station of the video recorder (if no Euro-AV cable is available).**

Switch on the test station on the VCR or insert a recorded tape and start playback. In some video recorders the station must be switched on by activating the modulator.

Then call the AV selection on the TV set with **0 AV**. Select the menu item "VIDEO" in the AV selection and call using **OK**.

To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the cable to the antenna system).

If you cannot see the test station or playback from the cassette, the VCR is transmitting on a different channel. You then have to search for the station or set it manually.

1. Call the TV menu with the **MENU** button.
2. Select the "Settings" menu item with **◀ ▶**.
3. Select the line below using **▼** and use **◀ ▶** to select "Stations".
4. Select the line below using **▼** and select "Manual adjustment" using **◀ ▶** and call this menu using **OK**.
5. Enter channel "E30" under the "Channel" menu item ("Antenna/cable (analogue)", select in this menu above if necessary).
6. Start search with the blue coloured key.
7. When the station has been found, change the name if needed, confirm with **OK** and save with the **red** coloured key.
8. A list of the stored stations is displayed.
9. Select 0 (VIDEO) here and overwrite this station storage location using the **red** coloured key.
10. Hide the menu again using the **END** button.

Plug the antenna plug back in.

If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR and search for the VCR station on the TV again.


# Operating additional equipment

## Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player/recorder or camcorder on your TV:

1. You can usually use the Euro-AV sockets on the TV set and on the VCR. For camcorders or digital cameras, use the AVS sockets on the right of the TV set. DVD players/recorders and SetTopBoxes may have HDMI or component sockets for video and audio transmission. In this case, use the corresponding sockets on the TV set.

When playing back from a video recorder using Euro-AV socket and Digital Link Plus (or a comparable system from another manufacturer), the picture from the VCR is shown at the current channel location.

When playing back from another VCR, camcorder or digital camera, use the AV selection  or the station list (OK) to select the AV socket/the device to which the VCR is connected.

Video recorders transmit a switching voltage during playback, which the TV can evaluate (can be activated in the connection wizard or in the "TV menu – Connections – Miscellaneous – Allow switching voltage" - set to "yes"). Then the picture of the video recorder is shown during playback at the current station location.

2. You can use the antenna connection between the VCR and the TV without a Euro-AV socket. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling AV inputs in the AV selection:



Call AV selection



Select AV device/socket (or VIDEO if the video recorder has been connected only via the antenna socket) and use ...



to call.


Now you will see the playback from the connected AV device.

### Calling AV input via the station list

Call the station list with the OK button in TV mode.

In the numeric and alphabetical sorting, you will always find the AV sockets at the top of the list.

## Timer recording with video or DVD recorder

You can programme timer recordings on the TV set. Programming can be done with the EPG programme guide, teletext or manually. Call the "Timer list" menu with the  button and press the red coloured key for the "Recording wizard". Select whether you want to programme the recording via EPG, teletext or manually. You also have the option to programme recordings directly from the EPG programme guide or teletext.

Note: Copy-protected programmes are not output to the Euro-AV sockets for legal reasons.

When you have connected the Euro-AV socket to a recorder which has **Digital Link Plus** or a comparable system from a different manufacturer, the timer data of analogue terrestrial stations are transmitted from the TV to the recorder. The recording quality SQ or EQ is transmitted for DVD recorders, in addition to the station, date and time. The recording is then controlled by the recorder and the recorder tuner is used for reception of the station. The recording data are not saved in the timer list of the TV set. You will only find the timer data in the recorder.

If you want to record from digital stations, the TV tuner is used and the recorder is controlled by the TV set. Then the station is locked during the timer recording.

If you have connected a Loewe video recorder with **Digital Link** to the Euro-AV socket (without Digital Link Plus) and you are using the timer programming of the TV, the TV receiver is always used, for terrestrial stations as well. The TV controls the recording.

You have to set the recorder to the AV input (signal source) to which the TV set is connected.

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

**Digital Link must be switched on on the recorder.** Read the operating instructions of your Loewe recorder for more information.

Use only Euro-AV cables, which are completely wired, otherwise Digital Link/Digital Link Plus will not work.

Another advantage of Digital Link is that you can install the recorder in a concealed place (e.g. in a rack). You can control the recorder with the TV set.

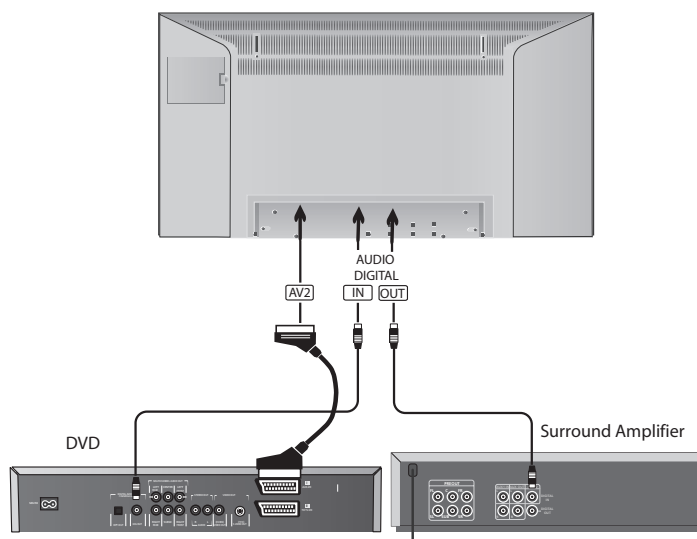
If you have a Loewe recorder with both systems, you can use all the advantages. The advantages of Digital Link Plus are used for the timer recording; the advantages of Digital Link for concealed installation of the recorder.

# Operating additional equipment

## Assignment of digital audio inputs and outputs

### Audio input "AUDIO DIGITAL IN"

The TV set has a coaxial digital audio input "AUDIO DIGITAL IN" and a coaxial digital audio output "AUDIO DIGITAL OUT". If you are using an external digital surround amplifier for sound reproduction, you have to feed digital audio signals to the TV, e.g. from the DVD player.



Connect the output socket of the DVD player (DIG OUT) to the TV's "AUDIO DIGITAL IN" socket with a cinch cable.

In the connection wizard, specify that audio transmission is to be digital. Specify that the digital sound is to be assigned for example to the Euro-AV socket 2 to feed the digital sound to the digital audio output of the TV set and via this to the external audio amplifier. Further information about this can be found on page 52.

### Audio output "AUDIO DIGITAL OUT"

The digital audio signal is applied at the "AUDIO DIGITAL OUT" socket of the TV. For example, you can connect an external digital audio amplifier or the Loewe Auro system here.

An analogue audio signal from the TV set or another sound source which is received at one of the Euro-AV sockets of the TV set is converted into a digital signal (PCM) and output at the "AUDIO DIGITAL OUT" socket. Conversion from external analogue AV sources to PCM is not possible if the TV's loudspeakers are used as a centre channel. In this case, connect your audio amplifier additionally to the TV (AUDIO OUT L/R) with a cinch cable and switch the audio amplifier to analogue audio input.

The digital TV sound or the digital sound of a connected auxiliary device is only audible via an external digital audio amplifier (e.g. Loewe Auro system).

# Operating additional equipment

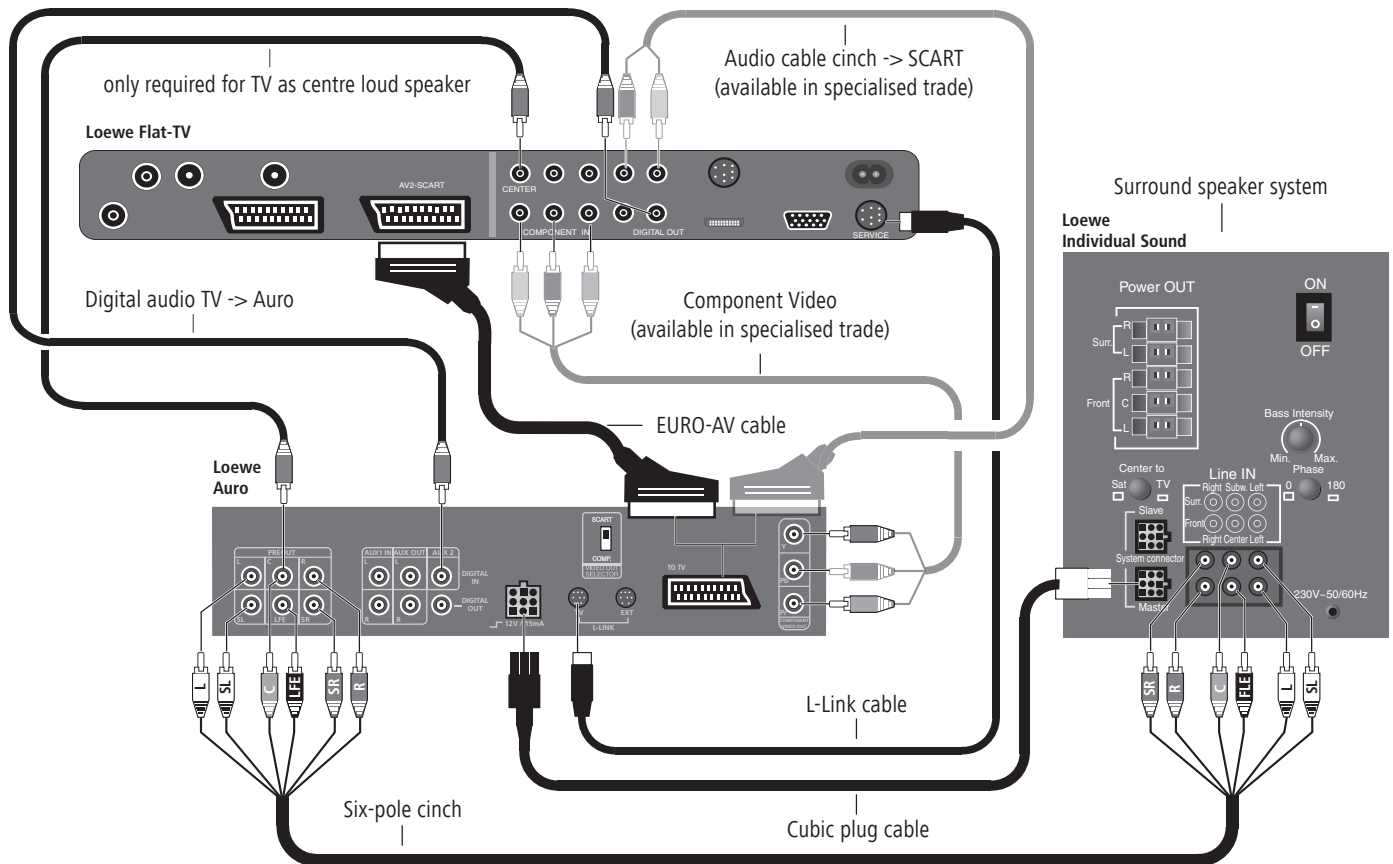
## Connecting Loewe DVD Preceiver Auro 2216 PS and Individual Sound loudspeaker system

You can play audio signals from the TV or DVD player in cinema quality with these components. The Individual Sound system includes 5 speakers for the front, centre and surround reproduction in addition to the subwoofer illustrated below. The centre signal can be reproduced alternatively by the TV speakers. Connect the cubic socket on the DVD Preceiver to the "Master" cubic socket on the subwoofer. Use the cubic plug cable enclosed with the DVD Preceiver. Plug the white plug (without kink protection) into the cubic socket on the subwoofer. For TV as a centre loudspeaker, connect "AUDIO IN C" on the TV set to "PRE OUT C" on the DVD Preceiver using a cinch cable.

Connect the digital audio output of the TV set "AUDIO DIGITAL OUT" to the "DIGITAL IN" input of the Preceiver using a cinch cable. Connect the TV socket "SERVICE" to the TV-L-Link socket on the Preceiver using the L-Link cable (provided with the Preceiver). Switch on the TV set and the Preceiver. Via the L-Link, the TV recognises whether the Preceiver is connected.

Select the "Tremo" loudspeaker system in the DVD menu of the Preceiver, set the listener/speaker distances and adjust the speaker levels. Please consult the Preceiver manual.

If you want to listen to the sound via the TV speakers temporarily, call the Sound menu, select "Sound via" and then "TV". If you want to listen to the sound via the Loewe Auro system, select "AURO" under "Sound via".



# Operating additional equipment

## Connecting other audio amplifiers or active speakers

In the connection wizard, select **"HiFi/AV amplifier"** under "Equipment selection: audio component". The connection wizard allows configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different sound formats (Dolby Digital, dts, MPEG and Stereo/PCM). Refer to the operating instructions for the audio amplifier to be connected.

Select **"Digital"** under "Audio transmission" for **digital audio amplifiers**. Connect the digital audio output of the TV AUDIO DIGITAL OUT to the digital audio input of the digital amplifier.

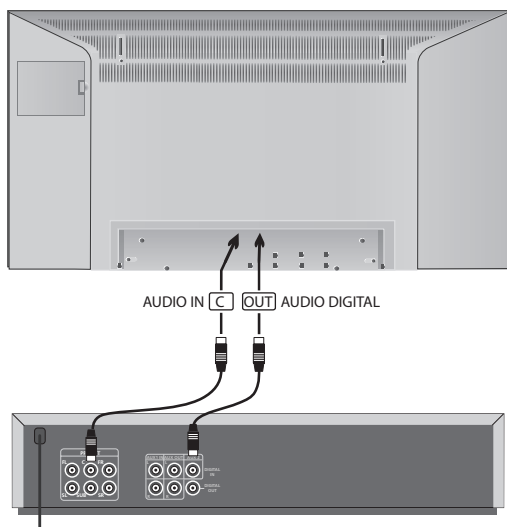
Assign the digital audio input to the socket through which the corresponding picture is transmitted (e.g. AV2 if a DVD player is connected there). Then the digital sound is passed to the digital audio output of the TV set and fed to the external audio amplifier via this.

Specify which sound formats can be decoded with your digital amplifier (Dolby Digital, MPEG, dts).

Specify under "Type of amplifier" whether the digital amplifier is a stereo or surround amplifier.

If it is a surround amplifier, specify whether or not the TV loudspeakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary.

**Note:** do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.

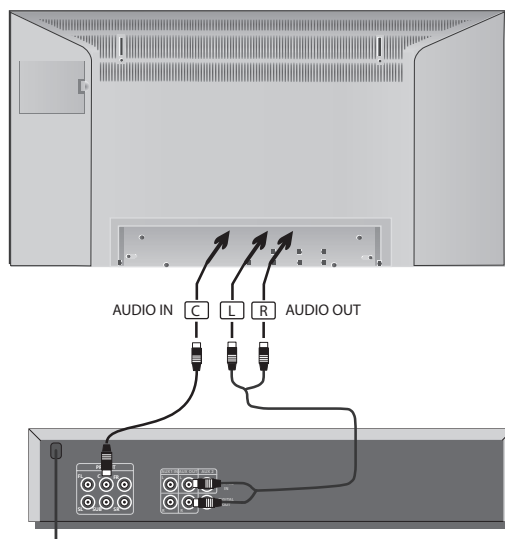



Select **"Analogue"** for "Sound transmission" for **analogue audio amplifiers**. The sound for the analogue amplifier is transmitted via the AUDIO OUT L/R connections of the TV to the audio amplifier. Connect the amplifier with two cinch cables.

Specify under "Type of amplifier" whether the analogue amplifier is a stereo or surround amplifier.

If it is a surround amplifier, also specify whether or not the TV speakers are to be used as centre loudspeakers. Connect the centre output of the amplifier to the centre output of the TV using a cinch cable, if necessary.

**Note:** do not use the centre loudspeaker connection on the amplifier; instead use the pre-amplifier centre output.



If you want to listen to the sound via the TV loudspeakers temporarily, call the Sound menu using the  button, select "Sound via" and then "TV".

When connecting **active speakers**, select "Active speakers" in the connection wizard under "Audio equipment selection". The sound for the active speakers is transmitted via the AUDIO OUT L/R connections to the active speakers. Make connections to the active speakers using the cinch cables.

Make the audio settings on the TV set when active speakers are connected. When using an external audio amplifier, make the audio settings on the audio amplifier.

# Operating additional equipment

## HDMI (DVI) connection



The HDMI connection (High Definition Multimedia Interface) allows digital picture and sound transmission via a connecting cable, e.g. from Loewe DVD Recorder Centros 2102/2172 HD.

The digital picture and sound data are transmitted without data compression and therefore lose none of their quality. In the equipment connected, no analogue/digital conversion is necessary, which might also have led to losses in quality.

DVI signals can be also reproduced by the HDMI connection using a DVI/HDMI adapter cable. This is possible because HDMI is based on DVI and is downwardly compatible. That means that the digital video signals are transmitted via HDMI - no audio signals are transmitted, though. In addition, both use the same copy protection method HDCP.

Connect the set with an HDMI connection using an HDMI cable (type A, 19-pin) to the HDMI socket of the TV set. Log in the HDMI connection in the connection wizard (TV menu - Connections - New devices/modifications).

Select the HDMI connection in the AV selection.



Call AV selection



Select HDMI/DVI socket and use ...



to call.

Start playback on the device connected with HDMI connection.

The set automatically recognises and sets the best possible format for the video. If transmission occurs via a DVI/HDMI adapter cable, then you can feed in the appropriate analogue audio via the audio input sockets AUDIO IN L/R on the TV set. The sound is reproduced via the TV speakers.

If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the HDMI/DVI socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 52. The digital audio signal of the DVI audio source is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the external amplifier.

Set geometry: as described for the VGA/XGA connection.

## VGA/XGA connection



You can connect a PC or a Set Top Box (STB) and therefore use the TV screen as an output device.

Connect the PC/STB to the VGA/XGA socket on the TV using a VGA cable.

When connecting to a PC, first set one of the following screen resolutions on your PC.

800x600 60Hz (SVGA)

1024x768 60Hz (XGA).

When a Set Top Box is connected, set the following screen resolutions according to the options of the Set Top Box:

SDTV: 720x576i (PAL), 720x480i (NTSC),

720x576p, 720x480p.

HDTV: 1280x720p, 1920x1080i.

Select the VGA/XGA connection in the AV selection.



Call AV selection



Select VGA socket and use ...



to call.

Start the connected device.

## Set geometry

Call the TV menu using the **MENU** button, select "Geometry" using ◀ ▶ and set:

If the picture is not positioned correctly, you can move the picture horizontally and vertically here so that it fills the whole screen. You can also set the phase position so that the picture appears in the best possible quality.

## Setting colour standard

Call the Picture menu using the  button. Select "Colour standard" using ◀ ▶ and make your selection.

The colour standard for a connected PC is RGB.

In Set Top Boxes, you usually set Ycc as a colour standard. Other formats such as Ypp or RGB can also be output. Please consult the operating instructions of the device connected.

If the wrong standard is selected, you will recognise this by the wrong colours in the display.

# Operating additional equipment

## Sound from PC or Set Top Box

Feed the analogue audio signal from the PC or the STB to the sockets AUDIO IN L/R on the TV via a cinch cable. The sound is reproduced via the TV speakers. If you have connected a digital external audio amplifier, you can select the digital audio signal in the connection wizard (TV menu - Connections - New devices/modifications) and assign it to the VGA/XGA socket. You can make the other settings for the audio amplifier as described for digital amplifiers on page 52. The digital audio signal of the Set Top Box is fed in at the AUDIO DIGITAL IN socket on the TV. Feed the digital audio signal from the TV AUDIO DIGITAL OUT to the amplifier.

## Component video connection



If you have a DVD player/recorder with Component OUT connections, you can connect it to the SD/HD-COMPONENT IN sockets of the TV instead of to the Euro-AV sockets. The connecting cable with three cinch plugs each transmits picture information.

The playback is of a better quality than via the Euro-AV socket.

You need another cinch cable for the analogue sound transmission. Connect the analogue audio outputs of the DVD player to the AUDIO IN L/R sockets on the TV set. The sound is reproduced via the TV speakers.

If you want to use the digital sound of the DVD player with a digital audio amplifier connected to the TV, make a connection between AUDIO DIG OUT of the DVD player and AUDIO DIGITAL IN of the TV set.

Log in the component/device in the connection wizard:

Assign the AUDIO DIG IN input here to the COMP. IN socket, provided a digital audio amplifier is also connected. You can make the other settings for the audio amplifier as described for digital amplifiers on page 52.

Set the signal at the component input in the connection wizard: Set to "Automatic" first. If the signal is not reproduced when playback is started, consult the operating instructions of the DVD device connected to find out what screen resolution is possible (SDTV, HDTV or ProScan).

Select the component connection in the AV selection.



Call AV selection



Select COMP. IN sockets and use ...



to call.

Start playback on the connected device.

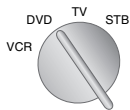
Set geometry and colour standard: as described for the VGA/XGA connection.

# Operating additional equipment

## Operating other Loewe devices with the RC3 remote control

Using this remote control, you can operate additional devices from Loewe.

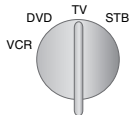
Use the rotary switch to select VCR, TV or a Set Top Box. The following are preset at the factory: Loewe VCRs, Loewe TV sets and for STBs (Set Top Box) in Germany, the common d-box.



## Use the driver buttons in the TV and STB position for VCR, DVD or Digital Recorder.

You can switch over the six drive buttons (◀◀, ▶▶, ▶▶▶, ●, ||, ■), both for the TV and for the STB, to control a VCR or DVD player/recorder (the control of the integrated "Digital Recorder Plus" is preset at the factory):

First set the switch to the main function TV or STB.



END \* EPG

Then press the **END** and **\* EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

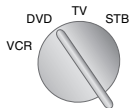
9 wxyz

8 tuv

8 tuv

Enter the the numbers 988 in sequence. The indicator will again blink two times.

Now set the switch to the desired function for the drive buttons: to DVD, VCR or to TV, if the digital recorder is to be operated. Press the **# PIP** button to complete the setting. The indicator will blink two times.



# PIP

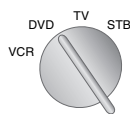
## Setting the remote control to operate devices from other manufacturers

You can switch over the remote control for other VCRs, DVD players and Set Top Boxes if the infrared code for the device type is listed in the code list or if it is included in the code memory of the RC3.

Even if the manufacturer of the device is listed in the code list, it may not be possible to operate that device using the Loewe remote control.

## Setting the remote control using code entry

Search for the code number for your device in the code list (see as of pages 64-68). The list is arranged according to device type – DVD, VCR, STB – and alphabetically according to manufacturer. Next to the manufacturer's name, you will find one or more code numbers.



Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

END \* EPG

0 AV

5 jkl

3 def

9 wxyz

Press the **END** and **\* EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

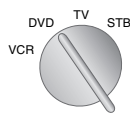
Enter the four numbers in sequence that you found in the code list (e.g. 0539 for Loewe DVD player).

After each number you enter, the indicator will blink once, after the last number it will blink twice. If the number was incorrect, the indicator will remain lit longer. The code number was not accepted. If the code was accepted with two blinks, you can test the functions of the device you just programmed.

If the device cannot be operated or can only be operated poorly, repeat the code entry with the next code from the list. If there are no other codes specified for this manufacturer, try it using the code suggestions from the remote control.

## Setting the remote control using the suggestions from the remote control

Switch the device **on** that you want to switch over to the remote control. Stand-by mode is not enough.



Use the rotary switch if you want to switch over a VCR, DVD device or a Set Top Box.

END \* EPG

9 wxyz

9 wxyz

1

# PIP

Press the **END** and **\* EPG** buttons simultaneously for at least 5 seconds. The upper left indicator on the remote control will blink twice.

Enter the the numbers 991 in sequence. The indicator will blink once after each number entered.

Press the **# PIP** button to select the first code.

Point the remote control toward the device you want to switch over to the remote control. Observe that device.



Now press the button ▶ (Play) or **On/Off** on the remote control.

Wait a moment for the device to react. If the device does not react, then that was not the right code. Press the **# PIP** button again to call the next code.

# PIP



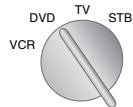
Press the button ▶ (Play) or **On/Off** again.

\* EPG

If the device reacts, press the **\* EPG** button to adopt the code.

# Operating additional equipment

## Using the RC3 remote control to operate a DVD recorder or DVD player

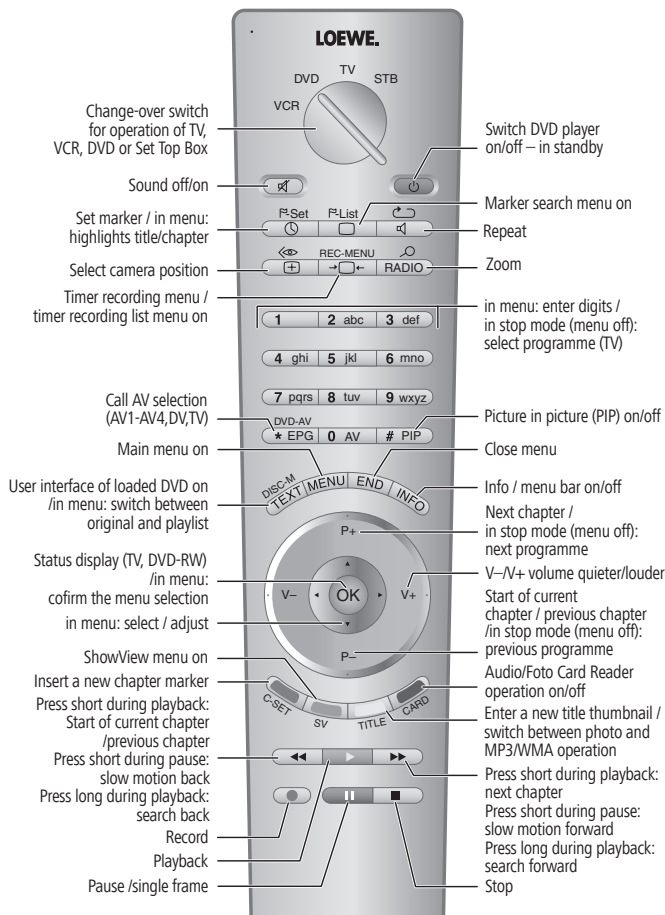


Set the rotary switch to "DVD".

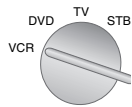
The infrared code and the functions are preset at the factory for the Loewe DVD recorder Centros 21x2 HD.

In the DVD mode, it is possible to operate the Loewe DVD recorders Centros 1102, 1172, 2102HD, 2172HD, and the DVD players Xemix 6122DO, 8122DA and 6222PS.

### Functions for the Loewe DVD recorders (Centros 1102, 1172, 2102, 2172)



## Using the RC3 remote control to operate a VCR



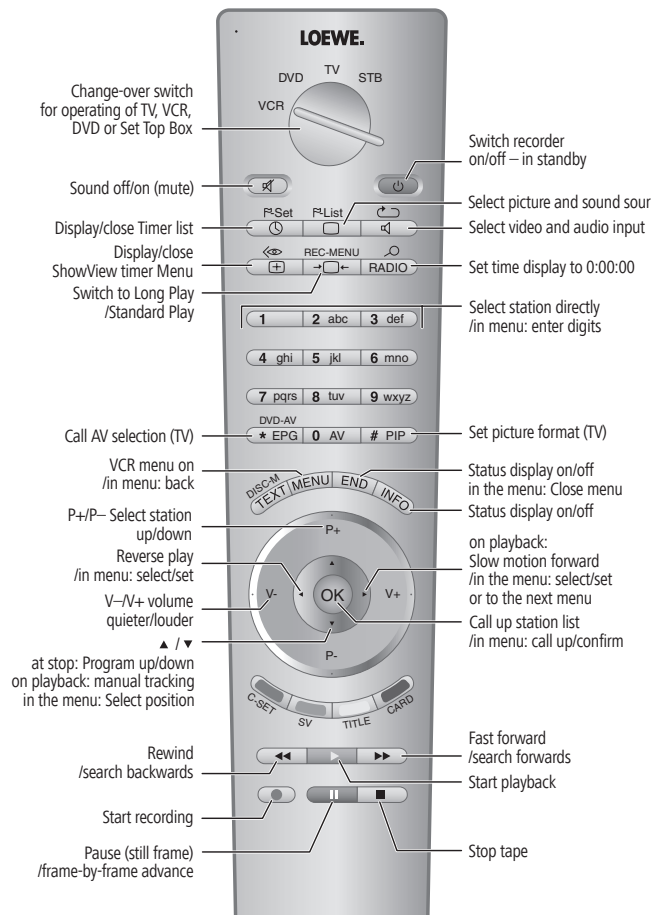
Set the rotary switch to "VCR".

The infrared code and the functions for a Loewe VCR are preset at the factory.

In VCR mode, the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H, 4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.

For other Loewe equipment than that listed, please use the original remote control.


### Functions for Loewe VCR (VV 8106, 8136, 8176)



# Operating additional equipment

## Rotating the TV set

Individual Edition sets are equipped with a Motor Unit at the factory. You can adjust your TV set to suit your sitting position with the remote control.

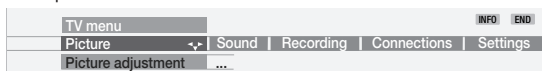
 Rotate the TV set when no menu or PIP is being displayed.



**Note:** Make sure there are no objects in the TV's area of rotation that might obstruct the rotation or be knocked down due to the rotating motion.

### Setting the range of rotation (basic adjustment)





Here you can determine the range of rotation maximum +/- 40 degrees) of the TV set by adjusting the maximum right and left stop.

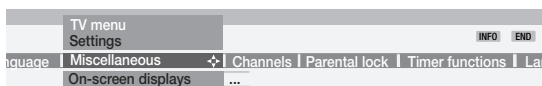
 Call up the TV menu.







 Select "Settings" with  .







 Select the menu line below with  and select "Miscellaneous" with  .




 Select the menu line below with  and select "Rotate TV" with  .






 Select the menu line below with  and select "Basic adjustment" with  .





 ... and confirm with **OK**.



 Turn your TV with  as far to the right as the location of the set allows. This will be the maximum right hand position in future.

 Confirm with **OK**.



 Turn your TV with  as far to the left as the location of the set allows. This will be the maximum left hand position in future.

 End the basic adjustment with **OK**.

 Close the menu.

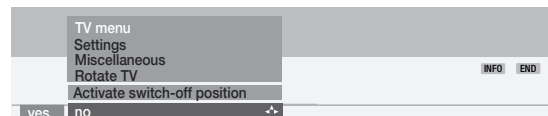
### Setting the position of the TV set when switched off

You can set the position the TV set is to assume once it is switched off (switch-off position must be activated for this):

Call the menu item "Activate switch-off position" in the TV menu – Settings – Miscellaneous – Rotate TV.






 Move down with  and select "yes" with  .




 Move up with  and select "Set switch-off position" with  .



 use **OK** to go down and use the   arrow buttons to set the desired switch-off position. The TV set rotates in the process.



 use **OK** to save the position set.

 Close the menu.

If the TV set is switched off using the blue on/off button on the remote control or by using the indicator field on the set, the set will rotate to the position defined.

When it is switched back on, it returns to the position last set manually.

## What to do, if ...

| Problem  | Possible cause  | Remedy  |
|--|---|---|
| The "Recording" menu point is not displayed in the TV menu.                                | No video or DVD recorder logged in.   | Log in the video or DVD recorder in the connection wizard and connect the device.   |
| "Connections" cannot be called in the TV menu (deactivated).                               | A time recording is in progress.  | Wait until the timer recording has ended or delete the timer.   |
| The control of the Loewe video recorder and the timer do not work or do not work properly. | <ul style="list-style-type: none"> <li>a) The Digital Link function is not activated or not possible in the recorder.</li> <li>b) Euro-AV cable is not connected.</li> <li>c) Recorder is not logged in.</li> </ul>   | <ul style="list-style-type: none"> <li>a) Activate Digital Link in the recorder (see operating instructions of the video recorder).</li> <li>b) Connect the Euro-AV cable.</li> <li>c) Log in recorder.</li> </ul>  |
| General problems with connecting external equipment via an AV input.                       | <ul style="list-style-type: none"> <li>a) The device is not logged in to the connection wizard or is connected differently than is shown in the connection diagram.</li> <li>b) The AV norm is set incorrectly.</li> <li>c) The AV signal is set incorrectly.</li> </ul>        | <ul style="list-style-type: none"> <li>a) In the connection wizard (TV menu – Connections – New devices/modifications), compare the connection diagram with the actual installation and connect as shown, if necessary.</li> <li>b) Set the norm correctly.</li> <li>c) Set the AV signal correctly.</li> </ul> <p>If "Automatic" is set for AV norm or AV signal, this can lead to errors for signals which do not conform to the norm. Then the norm and the signal are to be set according to the specifications in the operating instructions of the external device.</p> |
| A decoder connection does not function or is faulty.                                       | <ul style="list-style-type: none"> <li>a) The signal is not decoded because the wrong decoder stations are selected in the connection wizard.</li> <li>b) The sound is missing in decoder mode because the wrong decoder sound is assigned in the connection wizard.</li> </ul> | <ul style="list-style-type: none"> <li>a) Follow the instructions in the connection wizard again (TV menu – Connections – New devices/modifications) and select the corresponding decoder station.</li> <li>b) Follow the instructions in the connection wizard again and select the right audio source (decoder, TV or autom.), see instructions of the decoder.</li> </ul>  |
| All menus appear in the wrong language.  | Menu language has been set incorrectly.   | Set your menu language:<br>Press the <b>INFO</b> button in TV mode (index). Select the first index item and call it by using <b>OK</b> . Then select the language and confirm with <b>OK</b> .  |


## What to do, if ...

| Problem   | Possible cause  | Remedy   |
|---|---|--|
| Digital Link Plus does not function.                          | <ul style="list-style-type: none"> <li>a) Euro-AV cable is not fully wired (pin 10 not wired).</li> <li>b) Some recorders can only adopt stations during the initial installation of the TV set.</li> <li>c) All or some of the terrestrial and cable stations are stored on station storage locations <math>\geq 99</math>.</li> </ul> | <ul style="list-style-type: none"> <li>a) Replace the Euro-AV cable.</li> <li>b) Restore the recorder to the as-delivered state (see recorder's operating instructions).</li> <li>c) Rearrange the terrestrial and cable stations so that they fall between 1 and 99.</li> </ul>   |
| Various characters are displayed incorrectly in the teletext. | The wrong character set is set in the teletext menu.  | Set the right character set: Teletext menu - Settings - Character set: standard or the appropriate character set.  |
| No sound via external digital audio amplifier.                | <ul style="list-style-type: none"> <li>a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG).</li> <li>b) TV set and external digital audio amplifier are not connected.</li> </ul>   | <ul style="list-style-type: none"> <li>a) Set PCM stereo on the DVD player in the sound selection. For DVB stations, switch language/ sound selection (<b>green</b> coloured key) to Stereo on the TV set in the status display (<b>END</b>).</li> <li>b) Connect Digital-Out from the TV set to a Digital-In of the external digital audio amplifier and select the appropriate input to this.</li> </ul> |
| Device on mounted motor unit does not rotate.                 | Motor unit and connection for rotating stand control are not connected to each other.   | Use related cable to connect socket of motor unit to interface of rotating stand control (see assembly instructions for motor unit).   |
| Dirt on the inside of the front screen.                       | ---   | The front screen may only be removed and cleaned by your dealer.   |
|   |   |  |

# Technical data

## General data

| Type  | Individual Edition                                |
|---|---|
| Item no.  | 66435xxx  |
| Versions DR+ DVB-T/C CI   | •   |
| Set dimensions without stand (ca. cm WxHxD)<br>Dimensions with stand (ca. cm WxHxD) | 81,5x57,9x9,9<br>81,5x62,8x32,0                   |
| Set weight without stand (ca. kg)<br>Set weight with stand (ca. kg)                 | 22,5<br>28,0                                      |
| Display<br>Picture diagonal (cm)/picture format<br>Resolution<br>Contrast ratio     | HD-LCD technology<br>80/16:9<br>1366x768<br>800:1 |
| Angle of viewing horizontally/vertically  | 170°  |
| Power consumption (IEC 62087)<br>in operation (watt)<br>in standby (watt)           | 100<br>< 3  |
| Ambient temperature (Celsius)   | 5° – 35°  |
| Relative humidity (not condensing)  | 20 – 80%  |
| Barometric pressure   | 800 – 1114 hPa (0 – 2000 m over NN)               |

 The code number 3001 cancels out a secret code and with it the child lock. Please keep in a safe place.

# Technical data

## Electrical data

|                           |   |
|---------------------------|---|
| Chassis name              | L 2650  |
| Power supply              | 220 V -240V/50- 60 Hz   |
| Tuner VHF/UHF/ cable      |   |
| Hyperband 8 MHz           | 41 MHz to 860 MHz   |
| Station storage locations | 1680  |
| TV standards              | B/G, I, L, D/K, M, N<br>DVB-T, DVB-C, DVB-S <sup>(1)</sup>    |
| Colour standard           | SECAM, PAL, NTSC,<br>NTSC-V, PAL-V (60Hz)                     |
| Sound standard            | Mono/Stereo/Dual-channel<br>Nicam B/G, I, L,<br>Virtual Dolby |
| Rated audio power         | 2 x 20 watt   |
| Analogue Teletext         | TOP/FLOF Level 2.5  |
| Page Memory               | 3000  |

## Connections

|   |  |                                 |
|---|--|---------------------------------|
| Jack 3.5mm                                    |  | 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/R                             |
| IEC socket 75 Ohm/5 V/80 mA                   |  | Antenna/cable/PIP/DVB-T/C       |
| F socket 75 Ohm 13/18 V/350 mA <sup>(1)</sup> |  | ANT-SAT                         |
| EURO-AV 1 Video IN                            |  | Y/C (S-VHS/Hi 8)                |
|   | Video OUT  | CVBS (VHS/8 mm)                 |
|   |  | Y/C (S-VHS/Hi 8)                |
|   | Audio IN   | L/R                             |
|   | Audio OUT  | L/R                             |
| EURO-AV 2 Video IN                            |  | Y/C (S-VHS/Hi 8)                |
|   |  | CVBS (VHS/8 mm)                 |
|   |  | RGB, YUV                        |
|   | Video OUT  | CVBS                            |
|   |  | Y/C, (only with SVHS Link Plus) |
|   | Audio IN   | L/R                             |
|   | Audio OUT  | L/R                             |
| Cinch   | Audio IN max. 2Vrms                                  | Centre                          |
| 2 x Cinch                                     | Audio IN   | L/R                             |
| 2 x Cinch                                     | Audio OUT (level adjustable in active loud speakers) | L/R                             |
| Cinch   | COMPONENT IN:  | Cb/Pb signal                    |
| Cinch   | COMPONENT IN:  | Cr/Pr signal                    |
| Cinch   | COMPONENT IN:  | Y signal                        |
| Cinch   | Digital Audio IN (SPDIF)                             | Digital audio                   |
| Cinch   | Digital Audio OUT (SPDIF)                            | Digital audio                   |
| HDMI/DVI                                      | Digital Video/Audio IN type A 19pin                  | Digital video and audio         |
| VGA/XGA                                       | VGA/XGA IN   | PC/STB video signal             |
| Mini-DIN                                      | SERVICE  | Service/L-Link                  |
| Mini-DIN                                      | CONTROL  | Rotating stand control          |

<sup>(1)</sup> Digital Single-Sat tuners and digital Twin-Sat tuners can be retrofitted.



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# Accessories

## Wall holders and stands

Refer to the notes on the installations options on page 6.

## Digital Satellite Tuner

You can have your TV set retrofitted with the digital satellite tuner. By using this tuner, you can receive DVB-S stations.

The digital satellite tuner is completely integrated in the TV set (physically and logically) and is operated by the remote control/menu control of the TV.

The integrated PIP DVB-T/C tuner is exchanged for the digital sat tuner.

Loewe order no. 89361.055

## Digital Twin Satellite tuner

For TV set with the Digital Recorder+, you can have it retrofitted with an integrated DVB-S twin sat tuner.

The integrated PIP DVB-T/C tuner is exchanged for the DVB-S twin sat tuner.

Loewe order no. 89443.080

## VESA adapter

The VESA adapter offers you the possibility of also using your TV set for other VESA-compatible fastening devices.

Loewe order no. 89688.B00

## Loewe DVD players and recorders

The DVD players and recorders from Loewe are characterised by form and colour, which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

## Loewe audio system Auro and the active speaker system Individual Sound

The interplay of a Loewe TV with a Loewe audio system and a Loewe speaker system creates an excellently coordinated home cinema system. Advantages are high operating comfort, attractive design and adapted technology.

## Cube i Rack:

The Loewe Cube i Rack is designed as an accessory rack to hold two peripheral units such as DVD players and/or DVD recorders as well as the subwoofer of the Individual Sound System.

Subject to delivery options.

# Service

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# Codelist RC3 / Lista de códigos RC3

| Loewe                     |      |                  |      |      |            |          |         |      |            |                 |      |      |      |      |      |
|---------------------------|------|------------------|------|------|------------|----------|---------|------|------------|-----------------|------|------|------|------|------|
| DVD-Player                | 0539 | DEC              | 0699 | 0818 | Kendo      | 0699     | Pacific | 0768 | 0790       | 0713            | 0831 |      |      |      |      |
| DVD-Recorder Centros 11x2 | 0741 | Decca            |      | 0770 | Kenwood    | 0534     | 0490    | 0737 | Palladium  |                 | 0695 |      |      |      |      |
| DVD-Recorder Centros 21x2 | 1463 | Denon            | 0490 | 0634 | Kiuro      |          | 0718    | 0770 | Palsonic   |                 | 0689 | 0672 |      |      |      |
| STB                       | 1127 | Denver           | 0699 | 0788 | Kingavon   |          |         | 0818 | Panasonic  |                 | 0490 | 1908 |      |      |      |
| VCR                       | 0866 | Denzel           |      | 0665 | Kiss       |          |         | 0665 | Panda      |                 |      | 0783 |      |      |      |
|                           |      | Diamond          | 0651 | 0768 | 0723       | Koda     |         | 0818 | Philips    | 0539            | 0646 | 0503 | 1914 |      |      |
|                           |      | Digihome         |      | 0713 | Koss       |          |         | 0651 | Phonotrend |                 |      |      | 0699 |      |      |
|                           |      | digireD          |      | 0717 | Lawson     |          | 0705    | 0716 | 0768       | Pioneer         | 0571 | 0631 | 1900 | 1902 |      |
|                           |      | Digitrex         |      | 0672 | Lecson     |          |         |      | 0696       | Pointer         |      |      |      | 0770 |      |
|                           |      | DiK              |      | 0831 | Lenco      | 0699     | 0651    | 0770 | 0818       | Powerpoint      |      |      |      | 0718 |      |
|                           |      | Dinamic          |      | 0788 | Lenoxx     |          |         |      | 0690       | Proline         | 0651 | 0672 | 0790 | 1004 |      |
|                           |      | DiViDo           |      | 0705 | Lexia      |          |         |      | 0699       | Proscan         |      |      |      | 0522 |      |
|                           |      | DK digital       |      | 0831 | LG         |          | 0591    | 0741 | 1906       | Prosonic        |      |      |      | 0699 |      |
|                           |      | DMTECH           | 0783 | 0790 | Lifetec    |          |         |      | 0651       | Provision       |      |      |      | 0699 |      |
|                           |      | Dragon           |      | 0831 | Limit      |          |         | 0716 | 0768       | Radionette      |      |      |      | 0741 |      |
|                           |      | Dual             | 0665 | 0651 | 0713       | 0730     |         | 0539 | 1922       | Raite           |      |      |      | 0665 |      |
|                           |      | E-Boda           |      | 0723 | LogicLab   |          |         |      | 0768       | Rank Arena      |      |      |      | 0718 |      |
|                           |      | Eclipse          |      | 0723 | Logix      |          |         | 0705 | 0783       | RCA             |      |      | 0522 | 0651 |      |
|                           |      | Electrohome      |      | 0770 | Lumatron   |          |         |      | 0705       | REC             |      |      | 0689 | 0490 |      |
|                           |      | Elin             |      | 0770 | Luxman     |          |         |      | 0573       | Red Star        |      |      | 0770 | 0788 |      |
|                           |      | Elta             | 0690 | 0770 | 0788       | 0790     |         |      | 1004       | Reoc            |      |      |      | 0768 |      |
|                           |      | Emerson          |      | 0591 | 0705       | Magnavox |         | 0503 | 0818       | Revoy           |      |      |      | 0699 |      |
|                           |      | Enzer            |      | 0665 | Magnex     |          |         |      | 0723       | Roadstar        | 0699 | 0690 | 0689 | 0713 | 0818 |
|                           |      | Ferguson         |      | 0651 | Manhattan  |          |         |      | 0705       | Rotel           |      |      |      | 0623 |      |
|                           |      | Finlux           | 0741 | 0770 | 0783       | Marantz  |         |      | 0539       | Rowa            |      |      |      | 1004 |      |
|                           |      | Firstline        |      | 0651 | Mark       |          |         |      | 0713       | Saba            |      |      |      | 0651 |      |
|                           |      | Funai            |      | 0695 | Matsui     |          |         | 0651 | 0695       | Sabaki          |      |      |      | 0768 |      |
|                           |      | GE               |      | 0717 | MBO        |          |         | 0690 | 0730       | Salora          |      |      |      | 0741 |      |
|                           |      | Global Solutions |      | 0768 | MDS        |          |         |      | 0699       | Samsung         |      |      |      | 0573 | 0490 |
|                           |      | Global Sphere    |      | 0768 | Medion     | 0651     | 0783    | 0716 | 0831       | Sansui          | 0695 | 0716 | 0768 | 0723 | 0770 |
|                           |      | Go Video         |      | 0783 | Memorex    |          |         |      | 0831       | Sanyo           |      |      | 0670 | 0695 | 0790 |
|                           |      | GoldStar         |      | 0591 | Metz       |          |         | 0571 | 0713       | Scan            |      |      |      | 0705 |      |
|                           |      | Goodmans         | 0651 | 1004 | 0790       | 0690     |         |      | 0723       | ScanMagic       |      |      |      | 0730 |      |
|                           |      | Graetz           |      | 0665 | MiCO       |          |         |      | 0718       | Schaub Lorenz   |      |      |      | 0788 | 0770 |
|                           |      | Grandin          |      | 0716 | Microboss  |          |         |      | 0695       | Schneider       | 0651 | 0783 | 0705 | 0790 | 0788 |
|                           |      | Grundig          | 0539 | 0695 | 0651       | 0775     |         |      | 0503       | 0539            |      |      |      | 0768 |      |
|                           |      | Grunkel          |      | 0770 | Micromaxx  |          |         |      | 0522       | Scientific Labs |      |      |      | 0768 |      |
|                           |      | H&B              |      | 0818 | Micromedia |          |         |      | 0831       | Scott           |      |      | 0718 | 0651 | 0672 |
|                           |      | Haaz             |      | 0768 | Microsoft  |          |         |      | 0713       | SEG             |      |      | 0665 | 0713 | 0768 |
|                           |      | Hanseatic        |      | 0741 | Microstar  |          |         |      | 0818       | Shanghai        |      |      |      |      | 0672 |
|                           |      | HCM              |      | 0788 | Minax      |          |         |      | 0770       | Sharp           |      |      |      | 0630 | 0695 |
|                           |      | HDT              |      | 0705 | Minoka     |          |         |      | 0713       | Sherwood        |      | 0717 | 0741 | 0633 |      |
|                           |      | HE               |      | 0730 | Mitsubishi |          |         |      | 0818       | Shinco          |      |      |      | 0717 |      |
|                           |      | Henß             |      | 0713 | Mizuda     |          |         |      | 0665       | Silva           |      |      |      | 0788 |      |
|                           |      | Hitachi          | 0664 | 0665 | 0573       | Monyka   |         |      | 0730       | SilvaSchneider  |      |      |      | 0831 |      |
|                           |      | Hiteker          |      | 0672 | Mustek     |          |         |      | 0723       | Singer          |      |      | 0690 | 0716 | 0723 |
|                           |      | Home Electronics |      | 0730 | Mx Onda    |          |         | 0651 | 0723       | Skymaster       |      |      |      | 0730 | 0768 |
|                           |      | Hyundai          |      | 0783 | NAD        |          |         |      | 0741       | Slim Art        |      |      |      | 0770 |      |
|                           |      | Ingelen          |      | 0788 | Naiko      |          |         |      | 0770       | SM Electronic   |      |      | 0730 | 0768 | 0690 |
|                           |      | ISP              |      | 0695 | Neufunk    |          |         |      | 0665       | Smart           |      |      | 0718 | 0705 | 0713 |
|                           |      | Jeken            |      | 0699 | Nordmende  |          |         |      | 0831       | Sonashi         |      |      |      | 0716 |      |
|                           |      | JMB              |      | 0695 | Omni       |          |         | 0690 | 0699       | Sony            | 0533 | 0573 | 1903 | 1904 |      |
|                           |      | JVC              | 0623 | 0539 | 0503       | 1901     |         | 0627 | 0503       | Soundmaster     |      |      |      | 0768 |      |
|                           |      | Karcher          |      | 0783 | Optimus    |          |         |      | 0571       | Soundmax        |      |      |      | 0768 |      |
|                           |      |                  |      |      | Orava      |          |         |      | 0818       | Soundwave       |      |      |      | 0783 |      |
|                           |      |                  |      |      | Orion      |          |         |      | 0695       | Standard        |      |      | 0651 | 0768 |      |
|                           |      |                  |      |      | Oritron    |          |         |      | 0651       | Starmedia       |      |      |      | 0818 |      |
|                           |      |                  |      |      | P&B        |          |         |      | 0818       | Sunwood         |      |      |      | 0788 |      |





# Codelist RC3 / Lista de códigos RC3

|                 |  |      |      |      |      |          |                   |  |      |      |      |         |      |      |      |      |      |      |             |         |            |               |            |          |          |      |      |      |      |
|-----------------|--|------|------|------|------|----------|-------------------|--|------|------|------|---------|------|------|------|------|------|------|-------------|---------|------------|---------------|------------|----------|----------|------|------|------|------|
| Fidelity        |  |      |      |      | 0501 | K-SAT    |                   |  |      |      | 0713 | Neuhaus |      | 0501 | 0713 | 0834 | 0607 | SAT  |             |         |            | 0501          |            |          |          |      |      |      |      |
| Finlandia       |  |      |      |      | 0455 | Kamm     |                   |  |      |      | 0713 | Neusat  |      |      |      |      | 0713 | 0834 | Sat Control |         |            |               | 1300       |          |          |      |      |      |      |
| Finlux          |  |      |      | 0573 | 0455 | Kaon     |                   |  |      |      | 1300 | Nikko   |      |      |      | 0713 | 0723 | 0200 | Sat Partner |         |            |               | 0501       |          |          |      |      |      |      |
| Flair Mate      |  |      |      |      | 0713 | KaTelco  |                   |  |      |      | 1111 | Nokia   |      |      |      | 1023 | 1114 | 0751 | 1127        | 0723    | Sat Team   |               | 0713       |          |          |      |      |      |      |
| Force           |  |      |      |      | 1101 | Kathrein |                   |  | 0658 | 0249 | 1057 | 0173    |      |      | 0853 | 0573 | 1223 | 0455 | 1723        | Satcom  |            | 0605          | 0607       |          |          |      |      |      |      |
| Fortec Star     |  |      |      |      | 1017 | 1083     |                   |  | 1221 | 0200 | 0713 | 0668    | 0742 |      |      |      |      | 1310 | 1312        | Satec   |            | 0713          | 0834       |          |          |      |      |      |      |
| Foxtel          |  | 0879 | 0720 |      | 0455 | 0497     |                   |  | 0123 | 0115 | 1323 | 0710    |      |      |      |      |      |      |             | Satline |            |               | 0628       |          |          |      |      |      |      |
|                 |  |      |      |      | 0795 | 1176     | Kathrein Eurostar |  |      |      |      | 0115    |      |      |      |      |      |      |             | 0879    | Satstation |               | 1083       |          |          |      |      |      |      |
| Fracarro        |  |      |      |      | 0871 | 0668     | Kiton             |  |      |      |      | 0114    |      |      |      |      |      |      |             | 1294    | Schneider  | 0710          | 0668       | 0157     | 1206     |      |      |      |      |
| Freecom         |  |      |      |      | 0501 | 0173     | Klap              |  |      |      | 0668 | 0710    |      |      |      |      |      |      | 0668        |         | Schwaiger  | 0605          | 0157       | 0607     | 0885     |      |      |      |      |
| Freesat         |  |      |      |      |      | 0882     | Konig             |  |      |      |      | 0607    |      |      |      |      |      |      | 0133        |         |            |               | 1111       | 0132     | 1075     |      |      |      |      |
| FTEmaximal      |  |      |      |      | 0713 | 0863     | Koscom            |  |      |      | 0834 | 1043    |      |      |      |      |      |      |             | 0834    | SCS        |               |            | 0115     | 0299     |      |      |      |      |
| Fuba            |  | 0396 | 0173 | 0573 | 0115 | 0299     | Kreiling          |  |      | 0658 | 0249 | 0114    |      |      |      |      |      |      | 0879        | 0853    | Seemann    |               |            |          | 0396     |      |      |      |      |
| Fugionkyo       |  |      |      |      |      | 1105     | Kreiselmeyer      |  |      |      |      | 0173    |      |      |      | 1099 | 1100 | 0200 | 0501        | 0157    | SEG        | 0605          | 0742       | 0114     | 1087     |      |      |      |      |
| Galaxis         |  | 1111 | 1101 | 0834 | 0863 | 1176     | Kyostar           |  |      |      |      | 0132    |      |      |      |      |      |      |             | 0497    | Seleco     |               |            |          | 0871     |      |      |      |      |
| 0853            |  | 0115 | 0879 |      |      |          | L&S Electronic    |  |      |      |      | 1043    |      |      |      |      |      |      |             | 1205    | Septimo    |               | 1205       |          | 0885     |      |      |      |      |
| Garnet          |  |      |      |      |      | 1075     | Labgear           |  |      |      |      | 1296    |      |      |      |      |      |      |             | 0668    | Siemens    |               |            |          | 0173     |      |      |      |      |
| GF              |  |      |      |      | 0834 | 1043     | LaSAT             |  | 0607 | 0115 | 0132 | 0157    | 0299 |      |      |      |      |      | 0455        | 0847    | 0887       | 1175          | 0241       |          | 0713     |      |      |      |      |
| GF Star         |  |      |      |      |      | 1043     | Lenco             |  |      |      | 0713 | 0115    | 0607 |      |      |      |      |      | 0867        | 0123    | 1323       | 0791          | 0795       |          | 0501     |      |      |      |      |
| GOD Digital     |  |      |      |      |      | 0200     | Lenson            |  |      |      |      |         | 0501 |      |      |      |      | 0720 | 0497        | 0200    | 0853       | 0710          | 1423       |          | 0713     |      |      |      |      |
| Goldbox         |  |      |      |      |      | 0853     | Lexus             |  |      |      |      | 0200    |      |      |      |      |      |      |             |         | 0710       | Sky           | 0847       | 0856     | 0887     | 1014 |      |      |      |
| Goldvision      |  |      |      |      |      | 1017     | LG                |  |      |      |      | 1075    |      |      |      |      |      |      |             |         | 0299       | SKY+          |            |          |          | 1175 |      |      |      |
| Gooding         |  |      |      |      |      | 0571     | Lifesat           |  |      | 0605 | 0299 | 1043    | 0713 |      |      |      |      |      |             | 0571    | 0501       | Skymaster     | 0713       | 0605     | 0157     | 1200 |      |      |      |
| Goodmans        |  |      |      | 1284 | 0455 |          | Logix             |  |      |      |      | 1017    | 1075 |      |      |      |      |      |             |         | 0501       |               |            | 1085     | 1075     | 0628 |      |      |      |
| Gradiente       |  |      |      |      |      | 0887     | Lorenzen          |  | 0299 | 1294 | 0607 | 0742    | 0132 |      |      |      |      |      |             | 0879    | 0615       | Skymax        |            |          |          | 0200 |      |      |      |
| Granada         |  |      |      |      |      | 0455     | Luxor             |  |      |      | 0573 | 0501    |      |      |      |      |      |      | 0847        | 1104    | 0455       | 1320          | SkySat     |          | 0157     | 0605 | 0713 |      |      |
| Grandin         |  |      |      |      |      | 0084     | M&B1              |  |      |      |      | 0605    |      |      |      |      |      | 0455 | 0607        | 0173    | 0834       | SL            |            |          |          | 0132 | 0742 |      |      |
| Grundig         |  | 0173 | 0847 | 1150 | 1291 | 1435     | Manata            |  |      |      | 0710 | 0668    | 0713 |      |      |      |      |      |             |         | 0668       | SM Electronic |            | 0157     | 0713     | 1200 |      |      |      |
|                 |  | 0571 | 0750 | 0879 | 0885 | 0501     | Manhattan         |  | 1083 | 0455 | 0710 | 0668    |      |      |      |      |      |      |             |         | 0750       |               |            | 1075     | 1085     |      |      |      |      |
|                 |  |      |      |      | 1297 | 1330     |                   |  |      |      | 0834 | 1017    |      |      |      |      |      |      |             | 0710    | 0668       | 0571          | 0173       | 0133     | 1336     |      | 0882 |      |      |
| Hanseatic       |  |      |      | 0605 | 1099 | 1100     | Marantz           |  |      |      |      | 0200    |      |      |      |      |      |      |             |         | 0863       | 1017          | 1200       |          |          |      | 0713 |      |      |
| Hänsel & Gretel |  |      |      |      | 0132 | 0607     | Maspro            |  | 0750 | 0713 | 0173 | 0571    |      |      |      |      |      |      |             | 0329    | 0853       | 0352          | Sony       | 0282     | 0847     | 0853 | 0455 |      |      |
| Hauppauge       |  |      |      |      |      | 1294     | Matsui            |  |      | 0571 | 0710 | 0173    |      |      |      |      |      |      |             |         | 0871       | 0396          | SR         |          |          |      | 0132 |      |      |
| HDT             |  |      |      |      |      | 1011     | Max               |  |      |      |      | 0607    |      |      |      |      |      |      |             |         |            | 0396          | Starland   |          |          |      | 0713 |      |      |
| Heliocom        |  |      |      |      |      | 0607     | MB                |  |      |      |      | 0605    |      |      |      |      |      |      |             |         |            | 0511          | Strong     | 0879     | 0853     | 1105 | 1159 | 1300 |      |
| Helium          |  |      |      |      |      | 0607     | Mediabox          |  |      |      |      | 0853    |      |      |      |      |      |      |             |         |            | 1101          | 1113       | Sunsat   |          |      | 0713 |      |      |
| Hirschmann      |  | 0396 | 0882 | 1113 | 1111 |          | Mediacom          |  |      |      |      | 1206    |      |      |      |      |      |      |             | 0853    | 1114       | 1127          | 0723       | 1111     | Sunstar  |      | 0132 |      |      |
|                 |  | 0173 | 0573 | 1085 | 0299 | 0501     | MediaSat          |  |      |      | 0501 | 0853    |      |      |      |      |      |      | 1176        | 1195    | 1100       | 0249          | 0658       | 1435     | Tantec   |      | 0455 |      |      |
|                 |  |      |      |      | 0710 | 0607     | Medion            |  |      | 0713 | 0299 | 1043    |      |      |      |      |      |      |             |         |            |               | 1111       | Tatung   |          |      |      | 0455 |      |
| Hitachi         |  |      |      |      |      | 0455     | Medison           |  |      |      |      | 0713    |      |      |      |      |      |      |             |         | 0668       | 0710          | Teac       |          |          |      | 1322 |      |      |
| HNE             |  |      |      |      | 0742 | 0132     | Mega              |  |      |      |      | 0200    |      |      |      |      |      |      |             |         |            | 0455          | Tecatel    |          |          |      | 1200 |      |      |
| Houston         |  |      |      |      | 0668 | 0396     | Metronic          |  | 0713 | 1215 | 0084 | 0885    | 1205 |      |      |      |      |      |             |         | 0628       | TechniSat     | 0200       | 1099     | 1100     | 1195 |      |      |      |
| Humax           |  |      |      |      |      | 1176     | Metz              |  |      |      |      | 0173    |      |      |      |      |      |      |             |         |            | 0742          |            |          | 0501     | 1322 |      |      |      |
| Huth            |  | 0132 | 0607 | 1017 | 1075 |          | Micro             |  |      | 0607 | 0501 | 0713    |      |      |      |      |      |      |             |         |            | 0571          | Technosat  |          |          |      | 1206 |      |      |
| Hyundai         |  |      | 1011 | 1159 | 1075 |          | Micro electronic  |  |      |      |      | 0713    |      |      |      |      |      |      |             |         |            | 0834          | Technowelt |          | 0607     |      | 0885 |      |      |
| ID Digital      |  |      |      |      | 1176 | 0863     | Micro Technology  |  |      |      |      | 0713    |      |      |      |      |      |      |             | 0628    | 0668       | 0710          | 1323       | Techsan  |          |      | 1017 |      |      |
| Imex            |  |      |      |      |      | 0084     | Micromaxx         |  |      |      |      | 0299    |      |      |      |      |      |      |             |         | 0607       | 0742          | 0115       | Techwood |          |      | 0114 |      |      |
| Ingelen         |  |      |      |      | 0396 | 0882     | Microtec          |  |      |      |      | 0713    |      |      |      |      |      |      |             |         |            | 0200          | Telasat    | 0605     | 0115     | 0607 |      |      |      |
| International   |  |      |      |      |      | 0132     | Minerva           |  |      |      |      | 0571    |      |      |      |      |      |      |             | 0396    | 1113       | 0882          | Teleciel   |          |          |      | 1043 |      |      |
| Interstar       |  |      |      |      | 1105 | 1017     | Mitsubishi        |  |      |      |      | 0455    |      |      |      |      |      |      |             |         |            | 0200          | Telecom    |          |          |      | 0713 |      |      |
| Intervision     |  |      |      |      | 0628 | 0607     | Morgan's          |  | 0200 | 0713 | 0132 |         |      |      |      |      |      |      |             |         |            | 0713          | Telefunken |          |          |      | 0710 |      |      |
| Invideo         |  |      |      |      |      | 0871     | Motorola          |  |      |      |      | 0856    |      |      |      |      |      |      |             |         | 0628       | 0713          | Teleka     | 0396     | 0750     | 0501 | 0607 | 0834 |      |
| IRTE            |  |      |      |      |      | 0609     | Multichoice       |  |      | 0642 | 0879 |         |      |      |      |      |      |      |             | 0710    | 0885       | 0115          | 0607       | Telesat  |          |      | 0605 | 0607 |      |
| Italtel         |  |      |      |      |      | 0871     | Multitec          |  |      |      | 0157 |         |      |      |      |      |      |      |             |         |            | 0455          | Telestar   | 0501     | 1099     | 1100 | 0114 |      |      |
| ITT Nokia       |  | 0573 | 0455 | 0723 |      |          | Myryad            |  |      |      | 0200 |         |      |      |      |      |      |      |             | 0820    | 1114       | 1253          |            |          |          | 0200 | 0157 |      |      |
| JOK             |  |      |      |      |      | 0710     | Mysat             |  |      |      | 0713 |         |      |      |      |      |      |      |             | 0863    | 1243       | 1343          | 0853       | 1206     | Teletech |      |      | 0114 |      |
| JVC             |  |      |      |      |      | 0571     | Netgem            |  |      |      |      | 1322    |      |      |      |      |      |      |             |         |            | 1017          | 1293       | 1292     | Televés  |      | 0455 | 0501 | 0132 |

# Codelist RC3 / Lista de códigos RC3

|                 |                          |                   |           |
|-----------------|--------------------------|-------------------|-----------|
| Thomson         | 0455 0713 0853 0115 0607 | NTL Cabletoll     | 0276      |
|                 | 12910820 0668 0710 1046  | Ono               | 1068      |
| Thorn           |                          | Optus             | 0276 1060 |
| Tokai           |                          | Pace              | 1068 1060 |
| Tonna           | 0455 0668 0501 0713 0834 | Philips           | 0817 0286 |
| Topfield        |                          | PVP Stereo Visual | 0003      |
| Toshiba         |                          | Sagem             | 0817      |
| TPS             |                          | Tele+1            | 0443      |
| Triasat         |                          | Telepiu           | 0443      |
| Triax           | 0501 0115 0200 0396 0713 | Tudi              | 0286      |
|                 | 08530114 1296 1291 0132  | United Cable      | 0003      |
| Turnsat         |                          | Visiopass         | 0817      |
| Twiner          |                          |                   |           |
| UEC             |                          |                   |           |
| Uher            |                          |                   |           |
| Unisat          |                          |                   |           |
| Universum       | 0173 0571 0607 0299      |                   |           |
|                 | 0115 0742 1087           |                   |           |
| Van Hunen       |                          |                   |           |
| Variosat        |                          |                   |           |
| Ventana         |                          |                   |           |
| Vestel          |                          |                   |           |
| VH-Sat          |                          |                   |           |
| Viasat          | 1323 1023 0820           |                   |           |
| Visionic        |                          |                   |           |
| Visiosat        |                          |                   |           |
| Wetekom         | 0157 0605 0501           |                   |           |
| Wewa            |                          |                   |           |
| Wisi            | 0173 0396 0299 0455 0501 |                   |           |
|                 | 0607 0834                |                   |           |
| Worldsat        | 0710 0114 0123 0668      |                   |           |
| XCOM            |                          |                   |           |
| XSat            | 0668 0713 0123           |                   |           |
| Xtreme          |                          |                   |           |
| YES             |                          |                   |           |
| Zehnder         | 1075 0742 0114 0115 0419 |                   |           |
| Zenith          |                          |                   |           |
| Zeta Technology |                          |                   |           |
| Zinwell         |                          |                   |           |

## Cable Box (STB)

|                     |           |
|---------------------|-----------|
| Austar              | 0276      |
| BT                  | 0003      |
| Canal Plus          | 0443      |
| Comcrypt            | 0443      |
| Decsat              | 0423      |
| Filmnet             | 0443      |
| France Telecom      | 0817      |
| General Instruments | 0276      |
| Jerrold             | 0003 0276 |
| Kabelvision         | 0003      |
| Macab               | 0817      |
| Melita              | 0003      |
| MNet                | 0443      |
| Mr Zapp             | 0817      |
| Noos                | 0817      |

