

# Operating Instructions.

▪ Articos 32 HD/DR+

TV.



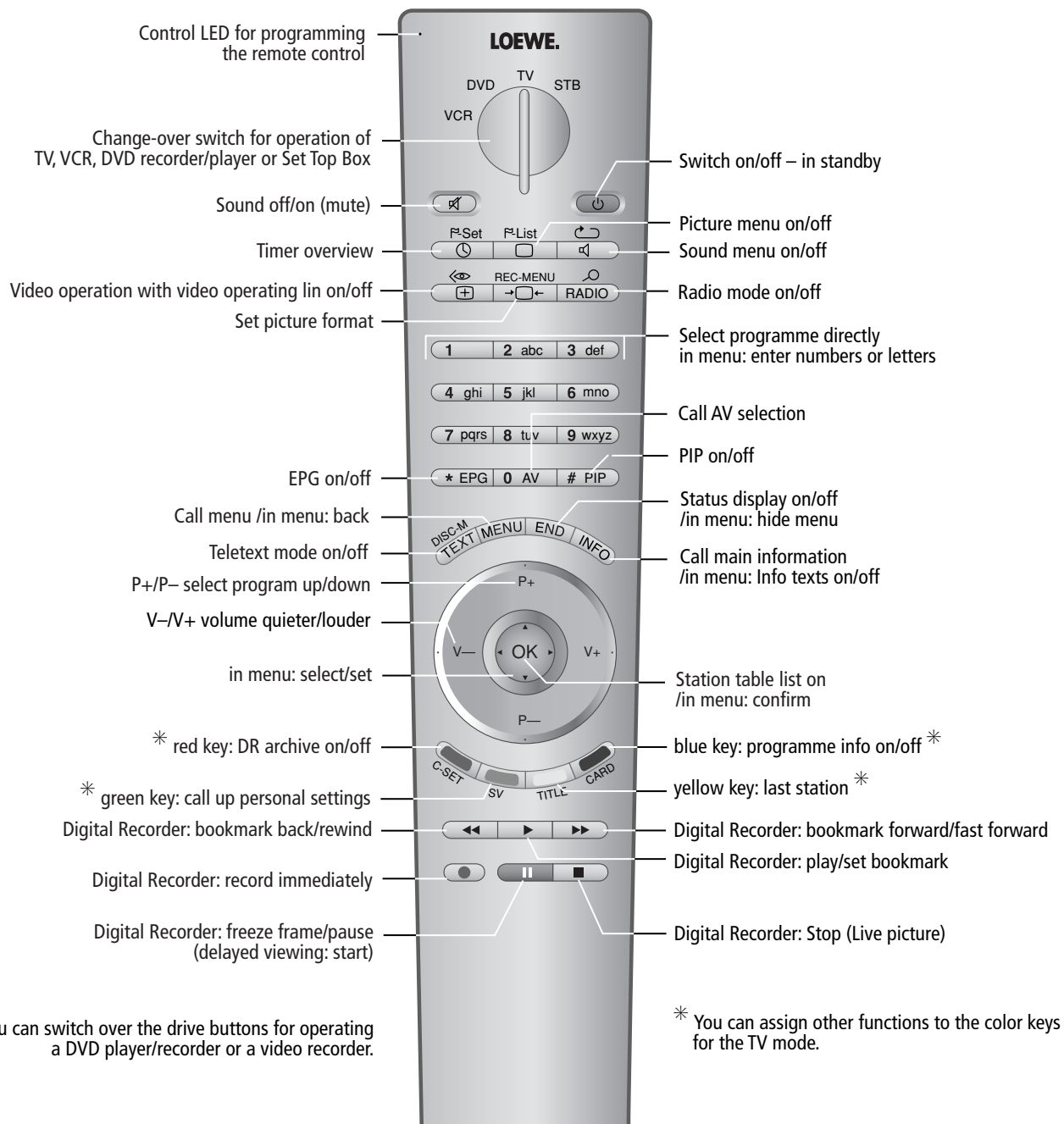
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# LOEWE.

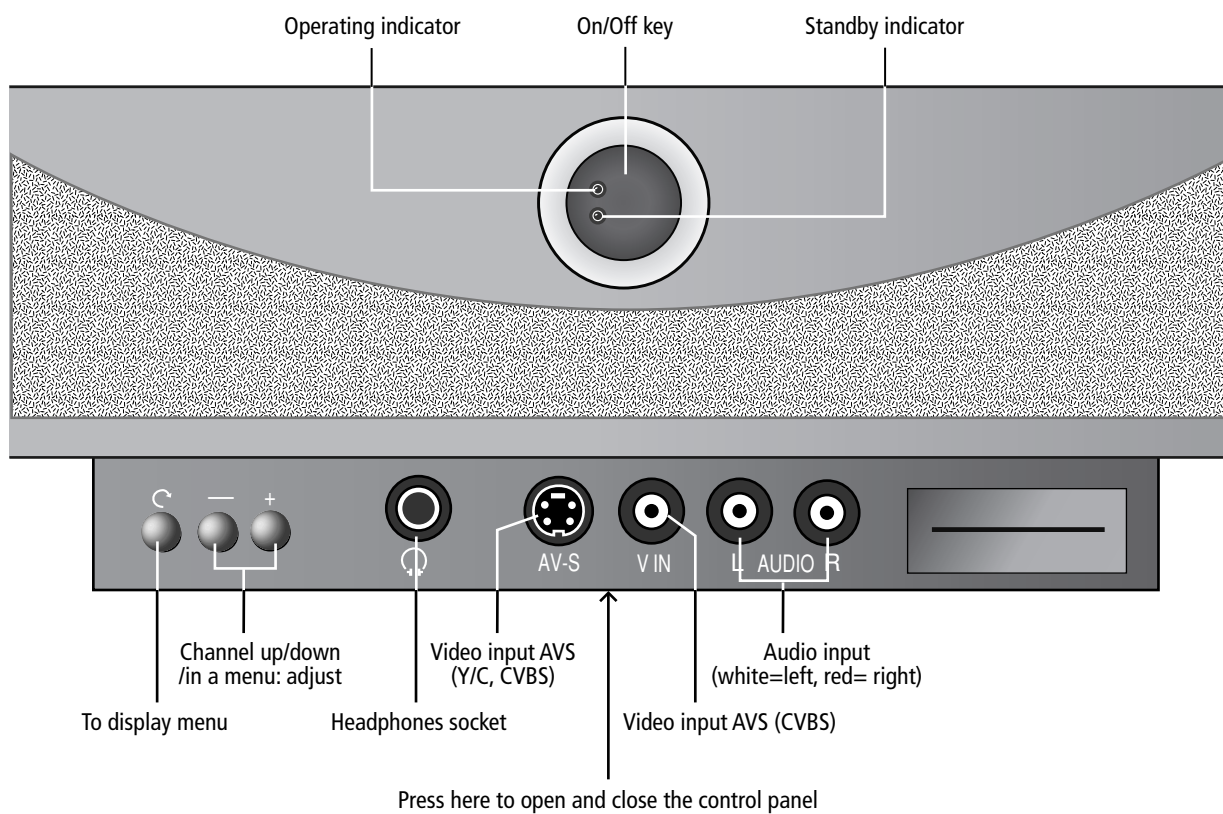
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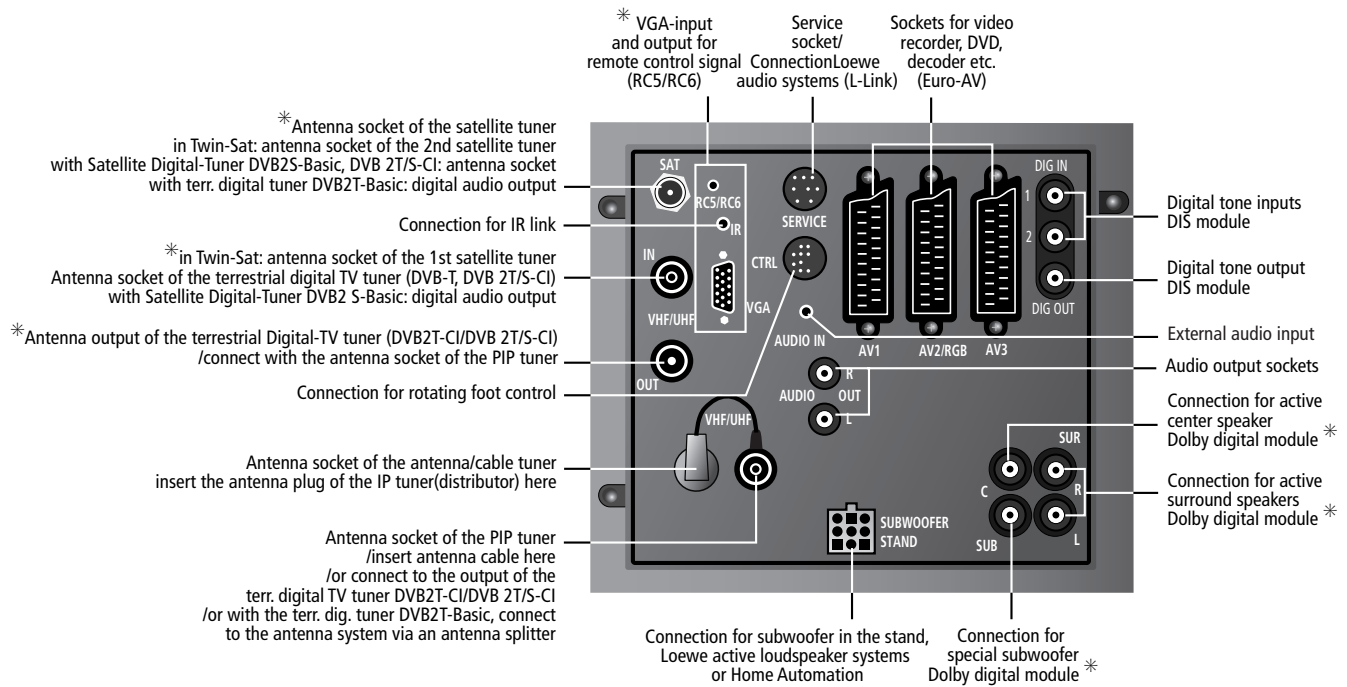
# Remote control – TV functions



# Control panel



# Rear connections



\* can be retrofitted

# Welcome

## Thank you,

for choosing a Loewe product.  
We are very happy to have you as a customer.

Loewe combines high quality in technology, design and user friendliness. This applies equally for TV, video and accessories. Neither the technology nor the design are an end in themselves but serve to give our customers pure watching and listening enjoyment. We have not allowed ourselves to be led astray by short-lived fashion trends in the design. You have, after all, purchased a high-quality piece of equipment which you don't want to get tired of looking at tomorrow or the day after.

### About the set

**We have designed the TV set in such a way that it is easy to operate with menus. If you need information about how to operate it, just display the info texts with the i button, you will soon get a grasp of the relationships.**

**You will find the answers to many technical questions in the index of your TV set. If it's a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason why this operating manual you are reading only explains the most important operating steps.**

With the remote control, you can operate three Loewe units, this TV, a Loewe video recorder and a Loewe DVD player.

## TV equipment

This operating manual describes the maximum equipment.

The illustrated menu contents may vary depending on the TV equipment.

Operation of the Digital Recorder and the DIS module are described in separate operating manuals.

You can find out what equipment your TV has in the main information – Technical spec. of TV set.

## Setup

Have the contrast filter panel fitted to the front of the set by your dealer. Assembly instructions are enclosed with the panel.

The On/Off switch is combined in one unit with the display.

The control panel is integrated in the base of the set underneath the power switch and display unit. To move the control panel out, press it at the bottom. This unlocks and drops it down. The buttons and connections are now accessible. To close again, press the control panel up until it snaps in.

Please note that the feet of the TV set could leave marks on soft wood furniture (e.g. deal, pine, fir etc.) due to the weight and moving the set about.

The plastic material of the feet contains softeners which could in some cases etch the surfaces of furniture.

In such cases you should place a firm underlay about the same size as the base of the TV set underneath it.

Please also read and observe the safety instructions on the following pages.

Make sure no bright light or sunlight falls on the screen and impairs the picture by reflections.

## Cleaning

Clean the TV set and the remote control only using with only a damp, soft, clean cloth (never use aggressive or abrasive cleaning agents).

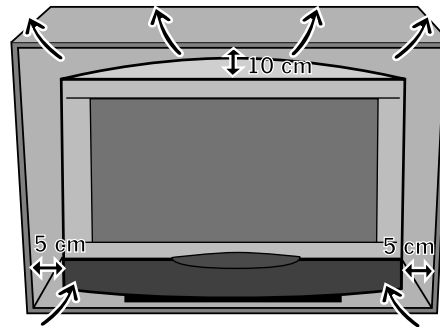
A cleaning agent, special cloth and protective gloves are included with the set for cleaning the contrast filter screen. Spray the cleaning agent onto the screen and wipe with the special cloth until no smears remain.

## For your own safety

**For your own safety and in order to avoid unnecessarily damaging your TV set, please read and observe the following safety instructions:**

- This TV set is designed exclusively for receiving and reproducing audio and visual (AV) signals.
- It is designed for the home or office and may not be used in rooms with high humidity (e.g. bathroom, sauna) or a high concentration of dust (e.g. workshops). If the unit is used in the open air ensure that it is protected against moisture (rain, dripping or splashing water, or dew). Do not place containers filled with water, such as vases, on the TV set. High moisture and dust concentrations produce creep currents in the set which can lead to danger of electric shock or fire.  
The manufacturer's warranty is only valid for use of the TV set in the specified permissible environment.
- This set may only be connected to a power supply with the voltage and frequency specified on the rating plate using the enclosed power cable. The wrong voltages can damage the set.
- If the set is moved from a cold environment to a warm room, condensation forms on all parts of the set. Moisture produces creep currents in the set which can cause a fire. In this case, you should leave the set for a reasonable time to acclimatize (when the condensation on the screen has evaporated) before switching it on.

- Like every piece of electronic equipment, your TV needs air for cooling. Obstructing the air supply to the set can cause fires. The air vents on the back of the TV set must always be kept free. Do not leave newspapers or cloths lying on the TV set. The air supply is also impaired when the TV set is placed on a blanket or a thick pile carpet.

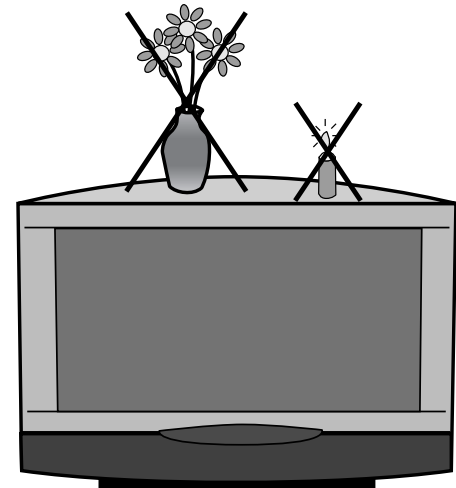


If the TV set is placed in a cabinet or on a shelf, at least 5 cm clearance at the sides and at least 10 cm at the top must be left to allow air to circulate.

Stand the TV set in a place where it is not exposed to direct sunlight or additional heating from radiators.

- Magnetic fields influence the picture quality of the TV set. Therefore, do not place loudspeakers or other magnetic sources immediately next to the TV set.

- Avoid dropping metal objects, needles, paper clips, liquids, wax or similar into the air vents at the back of the set. This causes short circuiting of the set and could start a fire. If anything should get inside the set, switch it off immediately, pull out the plug and call the after-sales service to check it.

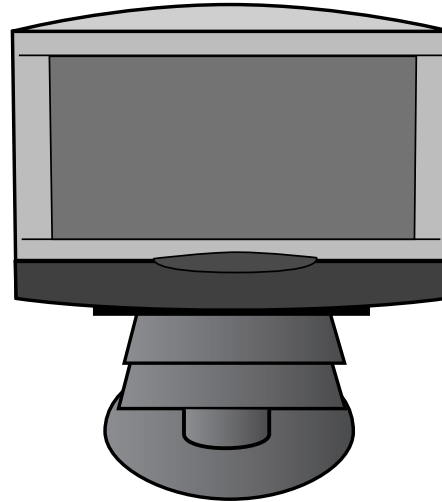


Do not place vases filled with water, lighted candles etc. on the top of the TV set.

## For your own safety

- You should never attempt to remove the rear panel of the TV yourself. The set operates with high voltages which could be fatal. Leave repairs and servicing of your TV set to authorized TV technicians.
- Due to the picture tube, TV sets have their center of gravity fairly near to the front. The TV set therefore has a tendency to tip forward relatively easily which could cause injury to persons.  
Only stand the TV set on a level, firm base. The set must stand on all feet. The TV should not overhang particularly when it is placed in a cabinet or on a shelf. If the TV is placed on a stand, make sure this is larger than the surface area of the base of the TV.

When using turntables and drawer shelves, make sure they have a sufficient load capacity.



We recommend you to use only original parts, e.g. Loewe racks and stands.

If the TV set is placed on a console with castors, move the console carefully because the console and the TV could tip over. Consoles with castors may considerably reduce the stability of the sets placed on them so only use consoles specially designed and approved for the TV. Never allow children to handle the TV set unsupervised.

Do not allow children to play close to the TV set, they could knock, push or pull it from the stand and injure someone.

- Do not place the TV anywhere where it may be exposed to vibrations because this can lead to overloading of materials.
- Do not leave the TV on unsupervised.
- Pull out the antenna and mains plugs during a thunderstorm. Surge voltages from lightning strikes can damage the set both through the antenna system and the mains. You should also pull out the antenna and mains plugs during long periods of absence.
- The mains plug of the TV must be easily accessible so that it can be disconnected from the mains quickly at any time.
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, and may not be walked over or exposed to chemicals; the latter applies for the entire TV set. A power cable with defective insulation can lead to electric shocks and is a fire risk.
- When you pull out the mains plug, do not tug the cable but hold the housing of the plug. The cables in the mains plug could be damaged and cause a short circuit the next time it is plugged in.

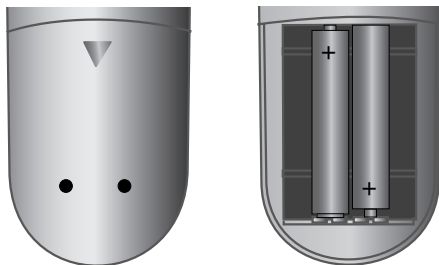


# Initial installation

## Remote control

### Batteries

To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-).

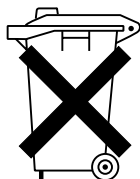


Then push the cover back on.

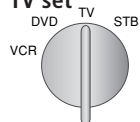
If the batteries are almost empty you will see the "low battery" message on the TV screen when you operate it. The batteries must then be changed.

### Note on disposal of batteries:

The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.



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



Turn the rotary switch to "TV".

See page 21 follow. for how to switch over the remote control for operating other equipment.

## Connection

### Mains

Connect the TV set to a 230V/50–60 Hertz outlet.

### Antennas

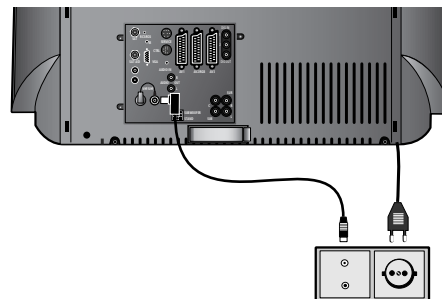
Remove the rear cover from the unit by pulling it backwards. Clip the cables into the cable holders and feed them downwards, through the opening. Connect your antenna or cable system to the antenna socket of the PIP tuner.

Plug the antenna plug protruding from above the PIP tuner into the antenna socket of the VHF/UHF tuner.

If your TV set is equipped with the terrestrial digital tuner 2 T CI or 2 S/T-CI, connect your antenna system to the top socket of the DVB-T module (IN) and connect the bottom socket (OUT) to the antenna input of the PIP tuner. If when equipped with the terrestrial digital tuner 2 T-Basic a common antenna is used for digital and analog signals, connect the terrestrial digital tuner and the analog tuner to the antenna system via an antenna splitter.

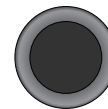
If equipped with one or two satellite tuners, connect the SAT antennae to the SAT sockets (see figure on page 5).

Replace the cover.



## Switching on

The display and the On/Off switch are combined in one unit.



Press the On/Off button so that it is pressed in.

## Initial installation

Automatic programming of the TV set is started the first time you switch it on. Follow the menus. First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, stores and sorts all the stations which your antenna system receives. You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.



Pressing the **OK** button in the direction of the arrow to select the settings



....confirm the settings with **OK**. You then move on to the next menu...



...press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (i button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

# Daily handling

## Switching on/off

Your TV set is equipped with an eco-standby power supply unit. The power consumption drops to low power in standby mode. If you want to save even more energy, switch the set off with the On/Off switch. However, please note that EPG data are then lost and timer recordings programmed on the Digital Recorder set will not be carried out.

However, please note that EPG data will be lost and programmed timer recordings for the Digital Recorder will not be performed.



If the TV is switched on, you can switch it off with the blue On/Off button on the remote control. The red standby LED on the set lights up. If the green LED also lights, a timer recording is in progress on the VCR or built-in digital recorder, EPG data is being acquired or radio mode without screen display is active.



From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0 – 9). The green operating LED then lights up.

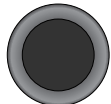


When you switch on the TV with **OK**, you see the station table and can choose a station.

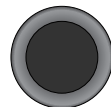


Switch on in the radio mode.

The display and the On/Off switch are combined in one unit.



None of the indicators lights up when you switch off the TV set with the On/Off button on the set.



Switch on the TV set with the On/Off button on the set when it is switched off.

## Changing channels



Channels up/down (only favorite stations if these are shown in the station table).

### With the numeric keys on the remote control

The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

7 pqrs

long

2 abc 7 pqrs

short long

1 2 7 pqrs

short short long

1 2 7 8 tuv

all short

### 1-digit stations

Keep the button 0 – 9 pressed for one second, the channel then changes immediately.

Or press the button 0 – 9 briefly, the channel then changes after 2 seconds (changes immediately if only 9 stations are stored).

### 2-digit stations

Keep the second numeric key pressed for one second, the channel then changes immediately. Or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

### 3-digit stations

Keep the third numeric key pressed for one second, the channel then changes immediately.

Or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

### 4-digit stations

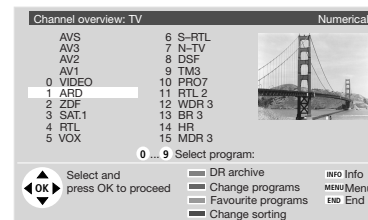
Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

## With the station table



Call the station table with **OK**



Mark the station (if possible the marked station is shown in the PIP picture)

0 AV

9 wxyz

Mark with numeric keys



Call the marked station



Sort alphabetically/numerically (blue button)



Display favorite stations only (yellow button)

## Call Audio/Video programs – AV selection

0 AV

for playing AV equipment (see also page 20).

AV Selection VIDEO AV1 AV2 AV3 AVS

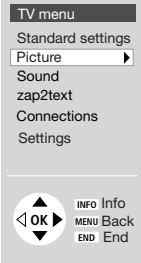


Select AV socket or VIDEO for VCR station.

# Daily handling

## General menu operation

With the TV and picture menus, we show you how to navigate within the menus. Which buttons you can use for operation is shown at the bottom of the appropriate menu.



**TV menu**

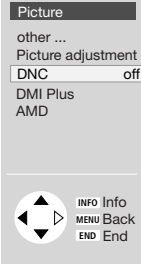
- Standard settings
- Picture
- Sound
- zap2text
- Connections
- Settings

INFO Info  
MENU Back  
END End

**Picture**

- Contrast
- Colour 32
- Brightness
- Picture format
- Sharpness
- Tint
- other ...

INFO Info  
MENU Back  
END End



**Picture**

- other ...
- Picture adjustment
- DNC off on
- DMI Plus
- AMD

INFO Info  
MENU Back  
END End

**Picture**

- other ...
- Picture adjustment
- DNC
- DMI Plus
- AMD

**DNC (Digital Noise Control)**  
With DNC you can eliminate or reduce picture interference, e.g. due to poor reception.

**MENU** Call the TV menu

**OK** Mark (white field)

**OK** Call the menu with OK

**OK** or ▶

**OK** Set (setting value and bar)

**OK** Mark other menu items

**OK** Select (frame)

**INFO** Show/hide info texts


**MENU** Back to the previous menu level

**END** Hide all menus

Grey menu items cannot be selected

## Adjusting the sound

### Set the volume

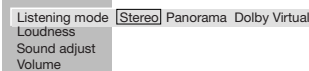


Set the volume

other ...

Volume 36


with "others ..." you can select and ...



Listening mode Stereo Panorama Dolby Virtual  
Loudness  
Sound adjust  
Volume

... set other sound settings.


### Mute



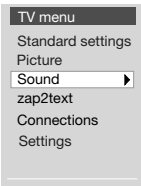
Sound off;  
Sound on: press button again or adjust volume

**Sound off** **Sound on**

### Other sound settings:



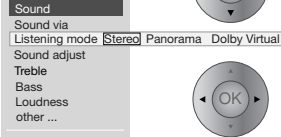
Call sound menu, or call TV menu using **MENU** ...



**MENU** Mark "Sound"

**OK** and call with **OK**

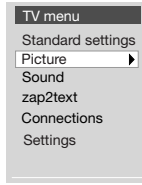
**OK** Mark sound function



**OK** Set/select

Sound settings: Sound via the loudspeakers of the TV set or another system. Sound adjust, treble, bass, loudness and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

## Adjusting the picture



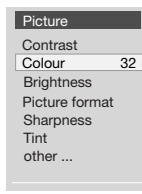
**TV menu**

- Standard settings
- Picture
- Sound
- zap2text
- Connections
- Settings

**MENU** Call the picture menu, or call the TV menu using **MENU** ...

**OK** Mark "Picture"

**OK** ... and call with **OK**



**Picture**

- Contrast
- Colour 32
- Brightness
- Picture format
- Sharpness
- Tint
- other ...

**OK** Mark picture function

**OK** Set/select

Picture settings: contrast, color, brightness, picture format, focus, color tone, picture adjustment, noise reduction (DNC), movement compensation (DMI), automatic picture size adaptation (AMD) and rotate picture.

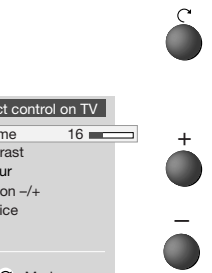
## Operation on the TV set

### Changing channels on the TV set

+ Channel up

- Channel down


### Volume, contrast and color



Press the function button until the desired function is marked

+ More volume, contrast or color

- Less volume, contrast or color



**Direct control on TV**

- Volume 16
- Contrast
- Colour
- Station +/-
- Service

Mark Change

# Modes of operation





## TV mode

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 Digital Recorder, EPG, Teletext, PIP, Video or Radio is selected.

Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.


### Function of the color buttons in TV mode

You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

-  red: call DR archive
-  green: call standard values
-  yellow: call last viewed station
-  blue: call station info

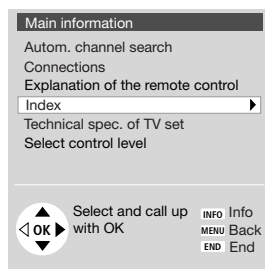
You can assign other functions to the buttons in the TV menu "Settings" – "Function keys".

### Status display

-  Show/hide status
- |       |        |
|-------|--------|
| Clock | 20:15  |
| 1 ARD | Stereo |

### Main information

-  Call main information



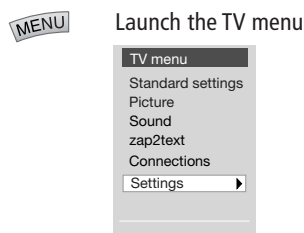
The **explanation of the remote control** shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index.

Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "**Technical spec. of the TV set**".

When you have made all the settings and connections, you can switch over to "**Simplified control**" using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

### TV menu



### Standard values

You can save the setting for picture and sound you have made in this menu and launch them again later.

### Connections

You will find information about this in the chapter "Logging in and connecting AV equipment" on page 19.

### zap2text

Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

### Child lock

Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

### On-screen displays

You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

### Timer functions

You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

### Time and date

When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost.

### Language

If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand:

Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button.

Now select the right language and confirm with **OK**.

# Modes of operation

## Picture in Picture (PIP)

### Standard PIP functions:

In standard PIP, a PIP picture is displayed in the current TV picture. The frame round the PIP picture is initially green in standard PIP.

 # PIP Show/hide PIP picture

### PIP picture as still frame



The frame around the PIP picture must be green. If it is not, press the green button.



Press the red button to freeze the PIP picture.

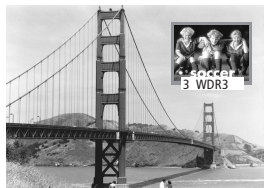
Press again – moving picture.

### Changing the station of the PIP picture



The frame around the PIP picture must be green. If not, press the green button.

Then select the station as normal.



### Changing the station of the TV picture



The frame around the PIP picture must be white. If it is not, press the green button.

Then select the station as normal.



### Station scan



The frame around the PIP picture must be green. If it is not, press the green button.



Start the station scan with the blue button. The PIP frame turns blue.

The programs now change automatically. Stop the program scan with the blue button. The PIP frame turns green again.

### Changing PIP picture/TV picture



The frame around the PIP picture must be green. If it is not, press the green button.



Change the pictures with the yellow button.

### Position of the PIP picture



Call the PIP menu with the MENU-button.



Select "Position"



Select the symbols for the position



Hide the PIP menu

### Resolution of the PIP picture



In the PIP menu, select "Resolution"



Set to "large" or "small".

### Split screen



In the PIP menu, select "Type"



Select the symbol for Split Screen.

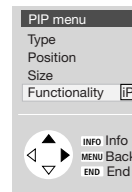


Hide the PIP menu

The picture on the right is the PIP picture and has no sound. The vertical line represents the color of the frame around the PIP picture.

### Setting "iPIP"

Switch on PIP, call the PIP menu with the MENU button.



Mark "Functionality"



Select "iPIP"



Hide menu

### iPIP function:

In iPIP the TV picture currently displayed becomes the PIP picture. Select another program for the TV picture and keep your eye on the PIP picture. In this way you can temporarily "ban" commercials or parts of programs to the PIP picture. In iPIP, the frame round the PIP picture is orange.

 # PIP PIP picture on/off

The PIP picture becomes a TV picture again when you switch off PIP.

# Modes of operation

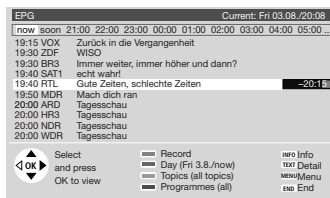
## EPG mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings.

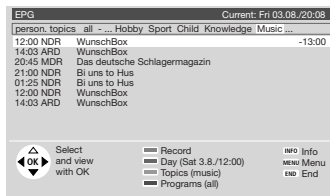
A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see next page).

### Using the EPG

★ EPG Switch EPG on/off

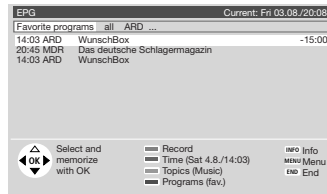


The first line is framed initially in green. The **green frame** stands for **time and date**, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The **yellow frame** means you can **select topics**. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News, Show, Music etc. The list of stations below is updated

accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The **blue frame** signifies **station selection**. Use the arrow buttons ◀ ▶ to choose between your favorite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶, marking a station in the list and storing it with OK.

The respective current settings are shown next to the operating notes for the color buttons.

### Direct input of time

You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

### Watch or memorize a station

You memorize the station marked with the ▼ ▲ buttons by pressing the OK-button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched off or you see a message.

## Programming a VCR or Digital Recorder (DR) recording

You prepare the program marked with the ▼ ▲ buttons for recording by pressing the red button. For "Timer recording" select DR (Digital Recorder") or VCR and whether a single recording is to be made or a serial is to be recorded. A red dot is displayed in front of the program title. If a program is already marked by a red dot, you can delete the timer data again (the red dot disappears).

### Calling detailed information

If detailed information about the selected station is available, you will see the TEXT-button displayed additionally. You can call the detailed information with this button.

### Other functions in the EPG menu:

Call the EPG menu with the MENU key.

### List of memorized programs

You will find the stations you have memorized in a list, also DVB radio stations.

### Switch on TV at memo

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

### Indicate/start memorized station

If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

### Short info lines

Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

### EPG entry

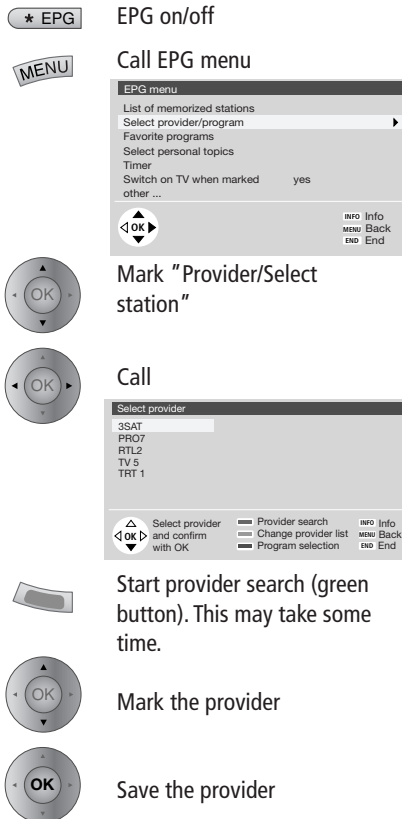
If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

# Modes of operation

## EPG settings

If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

## Provider search

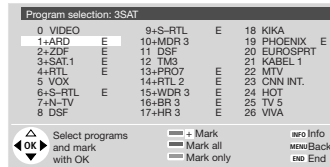


This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button.

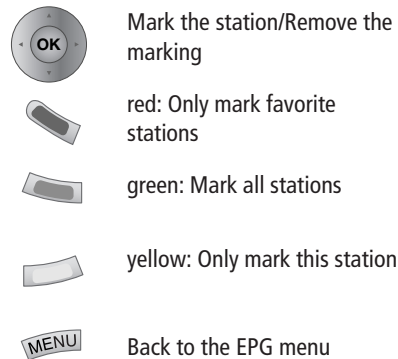
If the stations offered are what you want, move on to the station selection with the blue button.

## Performing station selection for EPG

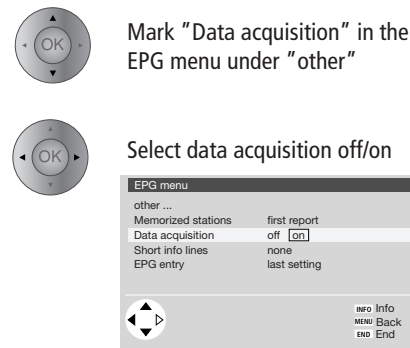
Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).



## Switching data acquisition on/off



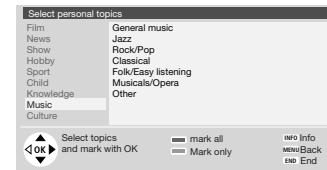
If, for example, you do not receive any EPG providers (analog TV) and no DVB is installed in the TV set, you should switch off the data acquisition.

## Performing data acquisition

The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

## Defining personal topics

You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



## TV radio mode

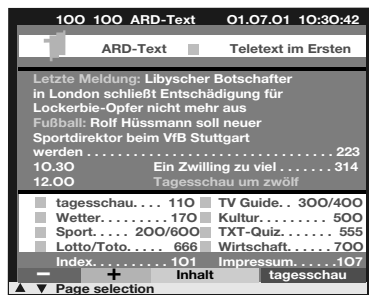
Switch the TV radio mode on and off by pressing the **RADIO** button. If at least one satellite tuner and possibly a DVB module are installed in your TV set, you will be able to receive radio stations. If none of these additional modules is installed, you can only select the audio inputs and play back through these with the station table or the **▼ ▲** buttons.

# Modes of operation

## Teletext mode

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.

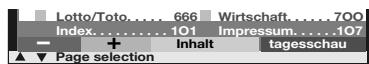
**TEXT** Teletext on/off





Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.


### Selecting pages with the colored buttons


The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.



 red: back to previously viewed page (not with FLOF)

 green: forward to next page (not with FLOF)

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

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

## More functions for page selection



Mark a specified page number on the page (Page Catching)



Launch



Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch.



Launch contents page 100



The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.



Launch the TOP table



Mark a general topic




Select the Topics column



Mark menu items



Display page

 Enter the page number directly

## Displaying teletext pages

 0 AV

Stop self-turning pages (HOLD)

 9 wxyz




zoom: top half – bottom half – normal size

 # PIP

TV picture on/off (Split text)



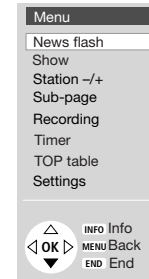
## Programming timer recordings

If the remote control is set to "TV" (no equipment combination), you call the program pages of the current station in teletext mode with the Record button . Select the program you want to record with   and confirm with **OK**. For "Timer data" select DR (Digital Recorder) or VCR and whether a single recording is to be made or a serial is to be recorded. Confirm with **OK**.

## Teletext menu

**MENU**

Launch teletext menu



Here you will find functions such as "New message", "Reveal" hidden information, switch to other, enter 4-digit sub-page number directly, program video timer recordings via teletext and launch the Timer overview.

In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.



# LOEWE Dialog

The TV has simplified operation for the most important functions, the LOEWE Dialog. A few key clicks give you the information you want.

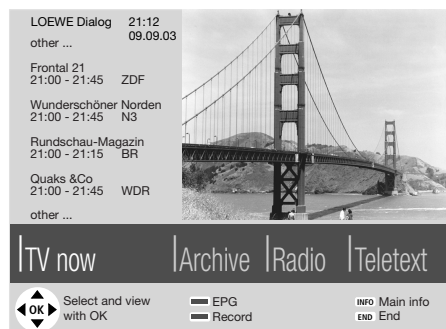
You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

You should have made the EPG settings described on page 15 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection. No LOEWE dialog is displayed with NTSC reception.

You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.



Press one of the arrow buttons ▲ ▼ ◀ ▶ for about 1 second.



The TV program just selected is shown as a small picture (the live picture).

The blue bar shows you the selectable functions. The function on the left is active. You can move the function you want to perform to the left or right with the arrow buttons ◀ ▶. Above the selected function you see a selection which you can navigate with the arrow buttons ▲ ▼ and view with **OK**.

The selection of programs currently running acquired by the EPG system is displayed in **TV-now**. If no EPG is received, a **program info** of the station currently being received is displayed.

With **Archive** – the selection of recorded programs in the DR archive is displayed. If no Digital Recorder is installed, the **Index** is displayed in place of the archive, that is the index with the selection of initial letters.

With **Radio** – the selection of programs of the satellite radio is displayed. If you have switched over to TV radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), **Favorites** are displayed in place of Radio, that is favorite programs you have defined.

With **Teletext** – the selection of personal teletext pages is displayed.

**This is how you select with the example of the "TV now" function:**

Mark the desired station with the arrow buttons ▲ ▼, the name turns blue. Other stations can be displayed with "others...". Press the **OK** button to watch the station.

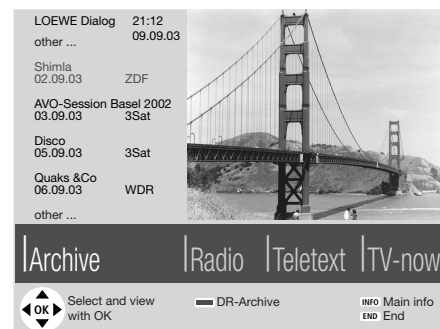
You can call LOEWE Dialog with the ▲ ▼ ◀ ▶ buttons so that the desired function is ready for selection on the left:



Call TV now ▲



Call Archive ▼



Call Teletext ◀



Call Radio ▶



# Operation of additional equipment

## Video mode

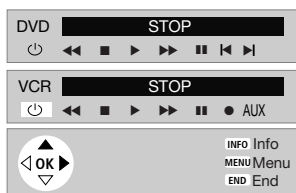
You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link or Digital Link Plus for timer recordings of satellite programs controlled by the TV set.

You can display up to three control bars but they are only displayed by logged in VCR's and DVD players.



Show/hide video control bar:



Select the video control bar if for example several VCR's or a DVD player are connected.



Select function



Switch VCR/DVD on/off



Select video input (Euro-AV socket) on the VCR



Rewind (only for VCR) or Scan in rewind



Stop (STOP)



Playback (PLAY)



Fast forward (only for VCR) or Scan in fast forward



Pause (PAUSE)



Next chapter (only for DVD)



Previous chapter (only for DVD)



Record



Perform selected function

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.

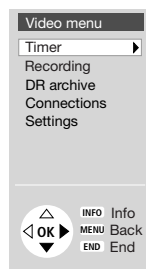
Exceptions:

1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

## Video menu



Show the Video menu



The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

In the Settings menu you can enter the record lead and follow on time and serial recording tolerance.

**Digital Link Plus** VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV.

Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control.

**Digital Link must be switched on on the video recorder.**

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

# Operating additional equipment

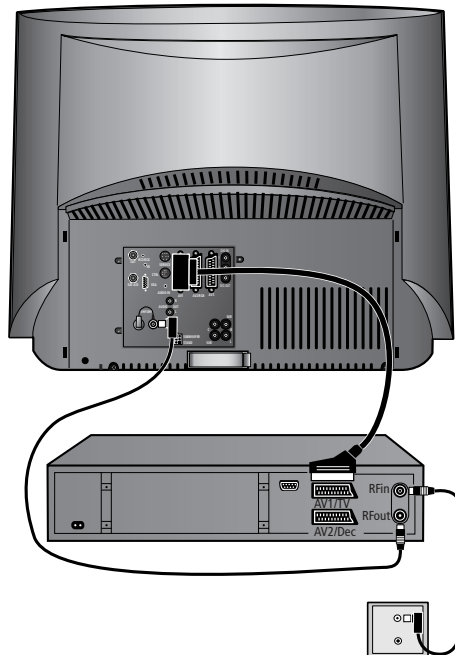
## Logging in equipment

You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu – "Connections".

## Connecting video/DVD recorders

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

If a DVB-T module is installed, connect the VCR to the IN socket of the DVB-T module using the antenna cable, if a DVBT 2 Basic tuner is installed via an antenna splitter, also connect the terrestrial tuner.



## Search for and store the VCR station (if there is no Euro AV cable)

Switch on the test station on the VCR or insert a recorded tape and start playback.

Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.

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).

**TV menu**

- Standard settings
- Picture
- Sound
- zap2text
- Connections
- Settings

**Settings**

- Stations
- AV settings
- Child lock
- On-screen displays
- Timer functions
- Time and date
- other ...

**Stations**

- Automatic search
- Manual adjustment
- Sort
- Delete
- Enter/change name
- Preferred stations

**Manual adjustment**

Range	VHF	UHF	Cable
Channel	E36	E30	VIDEO
Frequency	591.25 MHz	543.25 MHz	
Name	VIDEO	E30	
TV stand.	B/G		
Col. st.	Autom.		

0-9:Entry    info Info  
 Search    menu Menu Back  
 Store    end End

**Manual adjustment**

Range	UHF
Channel	E30 (E21...E69)
Frequency	543.25 MHz
Name	E30
TV stand.	B/G
Col. st.	Autom.

0-9:Entry    info Info  
 Search    menu Menu Back  
 Store    end End

**3 0 AV**    Enter channel 30

MENU

Call the TV menu



Mark "Settings"



Call



Mark "Stations"



Call



Mark "Manual setting"



Call



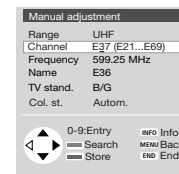
Mark "Range" and Select "UHF"



Mark "Channel"



Enter channel 30



Search for channel (blue button)

When the station is found:



Store (red button)

A list of the stored stations is displayed

Store		
0 VIDEO	9 S-RTL	18 KIKA
1 ARD	10 N-TV	19 PHOENIX
2 ZDF	11 DSF	20 EUROSPRT
3 SAT.1	12 TM3	21 KABEL 1
4 RTL	13 PRO7	22 MTV
5 VOX	14 RTL 2	23 CNN INT.
6 S-RTL	15 WDR 3	24 HOT
7 N-TV	16 BR 3	25 TV 5
8 DSF	17 HR 3	26 VIVA

Insert station    info Info  
 Overwrite station    menu Menu Back  
 end End



Overwrite program (program 0 marked)



Hide menus

Plug the antenna plug back into the VCR.

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 (see operating instructions of 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 or camcorder on your TV:

1. Use the Euro-AV sockets on the TV and VCR.  
This is the best way to get a good picture and sound quality. For camcorders and digital cameras it is best to use the front sockets AVS.  
If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot.  
If you are playing back from a standard VCR, DVD player, camcorder or digital camera, select the AV socket to which the video signal is connected in the AV selection list (button **0 AV**) or the station table.  
Video recorders emit a switching voltage during playback which the TV set can decode (can be activated in the connection wizard or set Settings – AV Settings – Allow switching voltage to “Yes” in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.
2. You can also control logged-in Loewe VCRs and DVD players with the video menu bar. See page 18 for more details.
3. Use the antenna connection between the VCR and the TV. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

## Calling an AV program in the AV selection list

**0 AV** Call AV selection list

AV Selection VIDEO AV1 AV2 AV3 AVS



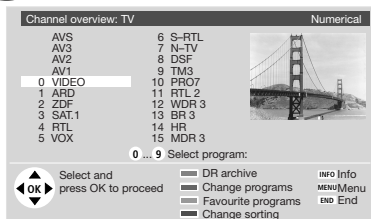
Select AV socket or VIDEO for VCR station.

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

## Calling an AV in the station table



Call the station table



In the numeric sorting you will always find the AV sockets at the top of the list without station numbers.



Mark the AV socket



Call the marked AV socket

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

## IR Link

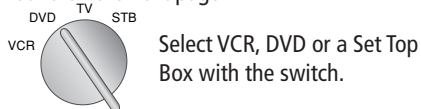
Your TV set has a socket for an IR Link (IR) and a cable with a jack and IR emitting diode is also supplied.

This enables you to control most other remotely controlled devices, such as a concealed d-Box or a video from a different manufacturer, by using the TV set's remote control. Insert the jack of the infrared emitting diode cable into the IR socket on the back of your TV. The infrared emitting diode on the end of this cable must be placed in front of the concealed device. For transmission, the TV must be switched on. You can order a nap strip from your dealer (Loewe spare parts no. 29337.001) to help lay the cables. The burl tape is self-adhesive; remove the protective film. Affix the burl tape on the wall of the shelf or cabinet and press the cable into the burl tape. The burl tape can be split into several pieces using a knife. To operate the concealed video recorder, point the infrared remote control at the TV set.

# Operating additional equipment

## Operating other Loewe equipment with the RC3 remote control

You can operate various Loewe equipment with this remote control. Further information can be found on the next page.

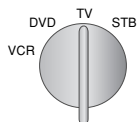


Select VCR, DVD or a Set Top Box with the switch.

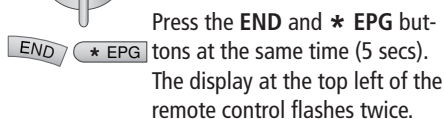
Default options are Loewe video recorders, Loewe DVD recorders and the d-box common in Germany for STBs (Set Top Box). For operation of a Loewe DVD player the remote control must be switched over (see next column).

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

You can switch over the six drive buttons both for TV and STB for operating a VCR or DVD player/recorder. Operation of the built-in Digital Recorder Plus is specified ex-factory.



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



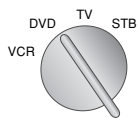
Press the **END** and **\* EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

**9** wxyz

Enter the numbers 988 one after the other. The display again flashes twice.

**8** tuv

**8** tuv



Now turn the switch to the required function for the drive buttons. DVD, VCR or TV if the Digital Recorder is to be used.

**#** PIP

Press the **# PIP** button to complete the setting. The display flashes twice.

## Switching over the remote control for operating equipment of other manufacturers or for a Loewe DVD player

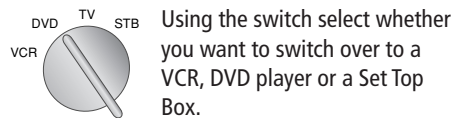
You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC3.

Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the equipment.

If you cannot find the equipment in the code list, try a suggestion from the remote control. Even if the manufacturer of the equipment is included in the code list, it is possible that it cannot be operated. Not all functions on the RC3 are available for this equipment.

## Switching over the remote control – with code input – e.g. to the Loewe DVD player

Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.



Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.



Press the **END** and **\* EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

**0** AV

**5** jkl

**3** def

**9** wxyz

Enter the four numbers from the code list one after the other (0539 for Loewe DVD player). The display flashes once after each number is entered. Twice after the last number.

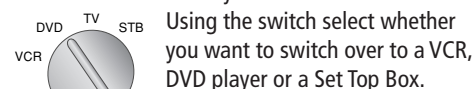
If the number was incorrect, the display flashes for longer. The code number has not been accepted.

Once the code has been accepted with two flashes, you can test the functionality of the device you have just programmed.

If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified for this manufacturer, try a code suggested by the remote control.

## Switching over the remote control – with the suggestions by the remote control

Switch on the device to which you want to set the remote control. Standby is not sufficient!



Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.



Press the **END** and **\* EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

**9** wxyz

**9** wxyz

**1**

Enter the numbers 991 one after the other. The display flashes once after each number is entered.

**#** PIP

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

Hold the remote control pointed towards the device you want to switch over to. Watch the device.



Now press the **▶** (Play) or **⏻** (On/Off) button on the remote control. Wait a moment for the reaction of the device. If the device does not react, the code is incorrect.

**#** PIP

Press the **# PIP** button to call the next code.



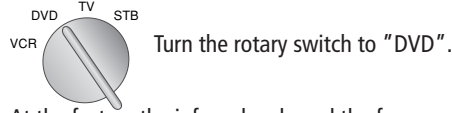
Press the **▶** (Play) or **⏻** (On/Off) button again.

**\* EPG**

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

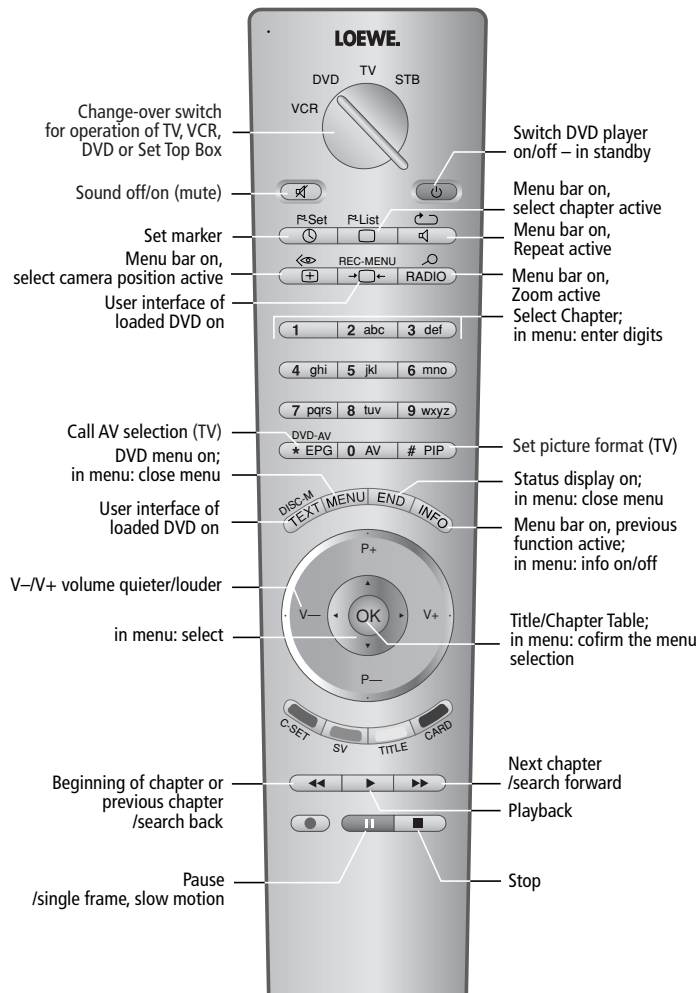
# Operating additional equipment

## Switching over the remote control for operating a DVD recorder/player

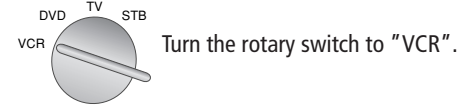


At the factory the infrared code and the functionality is preset for the Loewe DVD recorder, see previous page for how to switch over to the DVD player.

### Functions for the Loewe DVD player

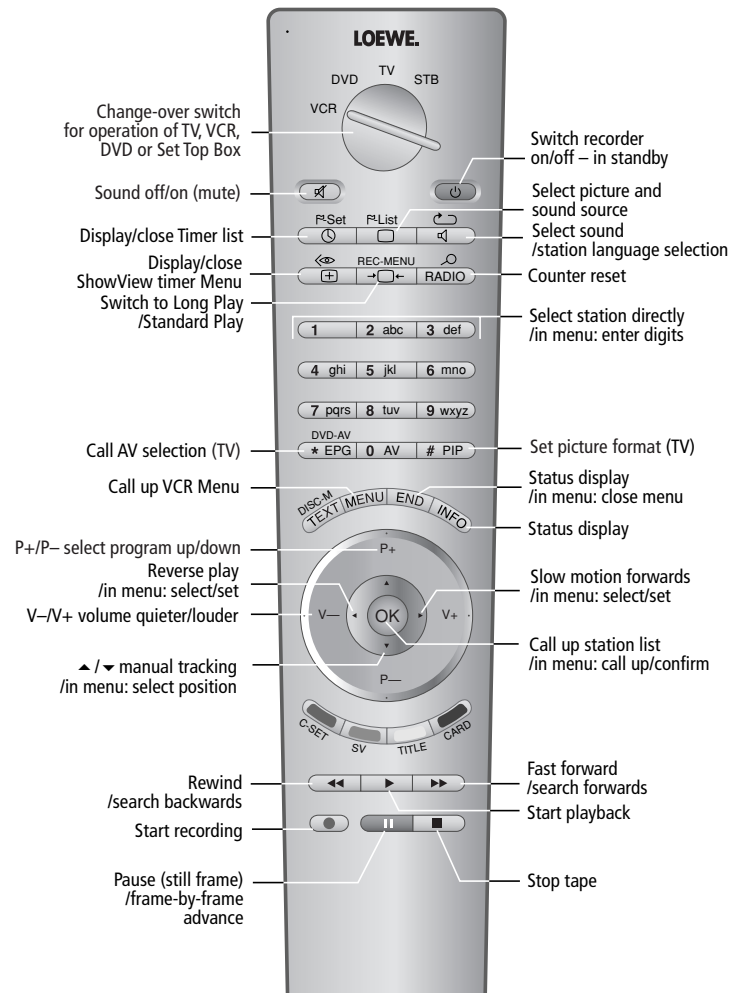


## Switching over the remote control for operating a video recorder



At the factory the infrared code and the functionality is preset for the Loewe video recorder.

### Functions for the Loewe video recorder



## What to do when...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified control" activated in main information	Deactivate "Simplified control" in the main information. Press the <b>INFO</b> -button, select "Select control level" and call with <b>OK</b> . Set the "Simplified control" to "no".
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu – Connections.
"Connections" for example cannot be called in the video menu (grayed out)	<ul style="list-style-type: none"> <li>a) A timer recording is currently in progress</li> <li>b) You are recording from the TV set with the video bar</li> </ul>	<ul style="list-style-type: none"> <li>a) Wait until the timer recording has ended or clear the timer</li> <li>b) Wait until you stop recording</li> </ul>
The "Stations" item in the TV menu and the "Autom. channel search" item in the main information cannot be called	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu – Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	<ul style="list-style-type: none"> <li>a) The VCR's Digital Link function is not activated or not possible</li> <li>b) Euro-AV cable not connected</li> <li>c) Video recorder not logged in</li> </ul>	<ul style="list-style-type: none"> <li>a) Activate Digital Link in the VCR (see operating instructions of the VCR)</li> <li>b) Connect the Euro-AV cable</li> <li>c) Log in the VCR</li> </ul>
General problems with connecting external devices through an AV input	<ul style="list-style-type: none"> <li>a) The device is not logged in in the "Connections" menu or is connected differently to 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) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary</li> <li>b) Set the correct norm</li> <li>c) Set the correct AV signal</li> </ul> <p>If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.</p>
Picture shifted horizontally	The TV set is in the Southern hemisphere (e.g. Australia, South Africa)	Set the horizontal position: <ul style="list-style-type: none"> <li>a) Call the main information with <b>INFO</b></li> <li>b) Call Index – Set picture – Horizontal displacement</li> <li>c) Set horizontal picture position</li> </ul>

## What to do when...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	<ul style="list-style-type: none"> <li>a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu – Connections</li> <li>b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu – Connections</li> </ul>	<ul style="list-style-type: none"> <li>a) Follow the instructions in the TV menu – Connections again and select the appropriate decoder programs</li> <li>b) Follow the instructions in the TV menu – Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder</li> </ul>
No sound through the TV loudspeakers	<ul style="list-style-type: none"> <li>a) The item "Sound from..." in the Sound menu under "Sound" is not set to "TV"</li> <li>b) Nothing is inserted in the 9-pole cube socket on the back of the set</li> </ul>	<ul style="list-style-type: none"> <li>a) Change the setting to "TV"</li> <li>b) Either a dummy plug with bridges, Loewe Concertos, the transmitter for the home automation or a subwoofer must be plugged into the cubic socket</li> </ul>
All menus appear in the wrong language	The wrong menu language has been set	Set your menu language: <ol style="list-style-type: none"> <li>1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (<b>END</b> button)</li> <li>2. Call the TV menu (<b>MENU</b> button)</li> <li>3. Select the last menu item and press <b>OK</b></li> <li>4. Select the last menu item on the last page and press the <b>OK</b> button</li> <li>5. Now select the right language and...</li> <li>6. ...confirm with <b>OK</b></li> </ol>
Digital Link Plus does not work	<ul style="list-style-type: none"> <li>a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket</li> <li>b) The Euro-AV cable is not fully wired (Pin 10 not wired)</li> <li>c) Some video recorders can only take over the stations from the TV in initial installation</li> <li>d) All or some terrestrial or cable stations are stored at station slots <math>\geq 99</math></li> </ul>	<ul style="list-style-type: none"> <li>a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram</li> <li>b) Change the Euro-AV cable</li> <li>c) Reinstall the original state (ex-factory) of the VCR (see operating instructions of the VCR)</li> <li>d) Sort the terrestrial and cable stations so that they are between 1 and 99</li> </ul>
Various characters are displayed incorrectly in 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.



# Technical data

## Mechanical data

Articos 32 HD/DR+	Part number 63450.42
Dimensions (cm)	86x67,5x57,5 (wxhxd)
Weight (kg)	64
Picture tube	Real Flat-Line HD
Format	16:9
Screen size	81 cm, visible 76 cm

## Electrical data

Chassis name	Media Plus (Q2550H)
Image refresh frequency	PAL/SECAM 100 Hz
	PAL 60/NTSC 60 Hz proscan
Full Digital 100	AMD/DMM/DMM/DNC
Power supply	220V up to 240V/50–60Hz
Power consumption in operation	approx.170 Watt
	Standby <2 Watt
	Sat-Record-Mode <60 Watt
Ambient temperature	5° – 40° Celsius
Tuner VHF/UHF/ cable (Hyperband 8 MHz)	42 MHz – 860 MHz
Station memory*	220/with DVB: 1470
TV norms	B/G, I, D/K, L, L', M, N
Color norms	PAL, SECAM, NTSC, NTSC 4.43
Sound norm	FM, AM, Nicam mono/stereo/2-sound
Audio rated output	2 x 15 Watt / 4 Ohm
Audio music output	2 x 40 Watt / 4 Ohm
Teletext	HiText (Level 2.5)

## Connections

Mini-DIN (Front)	Video IN	Y/C (S-VHS/Hi8)
Cinch (Front)	Video IN	CVBS (VHS/8mm)
Cinch (Front)	Audio IN	L/R
Jack 6.3 mm (Front) headphones		32–200 Ohm
IEC sockets	75 Ohm	antenna/cable/DVB-T*
F-socket	75 Ohm*	SAT and SAT A/D
AV 1	Video IN/OUT	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Audio IN/OUT	L/R
AV 2	Video IN/OUT**	Y/C (S-VHS/Hi8)
	Video IN/OUT	CVBS (VHS/8mm)
	Video IN	RGB
	Audio IN/OUT	L/R
AV 3	Video IN	Y/C (S-VHS/Hi8)
	Video IN/OUT***	CVBS (VHS/8mm)
	Video IN	RGB or YUV
	Audio IN/OUT***	L/R
Cinch	Audio OUT	level adjustable/fixed
Jack 3,5 mm	Audio IN	L/R
Jack 3,5 mm		IR-Link OUT
Jack 2,5 mm*		RC5/RC6 OUT
D-Sub 15-pole*		VGA IN
9-pole cube socket		home automation or Loewe active loudspeaker system
Mini-DIN 8-pole*		Service/audio system (L-link)
Cinch*	Centre OUT	Centre Signal
Cinch*	Subwoofer OUT	LFE Signal
Cinch*	Surround OUT	L/R
Cinch	Dig. Audio IN 1	Multichannel Signal
Cinch	Dig. Audio IN 2	Multichannel Signal
Cinch	Dig. Audio OUT	Multichannel Signal

\* depending on equipment and type of set or retrofittable

\*\* OUT only in Digital Link Plus video recorders

\*\*\* OUT monitoring picture and sound

# Accessories available

## Motor Unit

A table turning foot for your Articos which can be rotated by  $\pm 40^\circ$ . Turning is implemented with the remote control.

## Cube Systems 1 and 2

Rack systems with four video screens and integrated Motor Unit. Each rack has a cable for an IR Link.

## Loewe audio systems and active loudspeaker systems

A combination of a Loewe TV set, a Loewe audio system and a Loewe loudspeaker system provides an excellently adapted Home Cinema system with the advantages of high operating comfort, matching design and adapted technology.

## Home automation

Control of light switches, dimmers, blinds etc. with the TV menu.

## RC1 Remote control

Bi-directional system remote control to operate all Loewe products, such as TVs, VCRs, DVDs and audio systems.

## Single-/Twin-Sat-Tuner und Digital-TV Decoder (satellite or terrestrial)

Your TV set can be retrofitted with an integrated SAT 6 or TWIN-SAT 6 and a digital TV decoder. A combination of the two components enables you to receive analogue and digital satellite programmes.

The Digital TV 1 Sat / Twin Sat and the Digital-TV upgrade kit 2 S-Basic upgrade kit enables you to receive all unencoded digital satellite programmes.

All uncoded digital terrestrial programs can be received with the Digital-TV upgrade kit 2 T-Basic.

The following modules are available for reception of coded (and uncoded) digital TV programs (e.g. Premiere):

The Digital-TV upgrade kit 2 Sat/Twin-Sat-CI P for satellite reception and the Digital-TV upgrade kit 2 T-CI for terrestrial Digital-TV programs. In addition, the Digital TV upgrade kit 2 T/S-CI is available for reception of satellite and terrestrial coded TV programs.

All modules are integrated in the TV set and are operated by the remote control/menu control of the TV.

## Dolby Digital Decoder

For multichannel playback from DVD players in Dolby Digital cinema quality. A Dolby Digital is integrated.

## Loewe Video Recorders

Loewe video recorders are specially adapted in design, user guidance and technical characteristics to Loewe TV sets with the result that daily handling of the equipment is made much simpler.

## Loewe DVD Players and DVD Recorders

The DVD Players and DVD Recorders from Loewe are characterized by form and color which match Loewe TV sets, adapted user guidance and technology. A combination of the two devices forms a system which offers many advantages.

# Service addresses

## Australia

International Dynamics Australasia Pty Ltd.  
129 Palmer Street  
AUS - Richmond, Victoria 3121  
Tel. 03-94 29 08 22  
Fax 03-94 29 08 33

## Austria

Loewe Austria GmbH  
Parkring 10  
A-1010 Wien  
Tel 01-51 63 33 034  
Fax 01-51 63 33 032

## Benelux

Loewe Opta Benelux NV/SA  
Uilenbaan 84  
B-2160 Antwerpen  
Tel. 0902-88 00 2  
Tel. 03-270 99 30  
Fax 03-271 01 08  
Loewe Opta Nederland B.V.  
Ravenswade, 54A1  
NL-3439 LD Nieuwegein (Utrecht)  
Tel. 0900-20 20 180  
Fax 030-280 33 27

## CIS

Service Center Loewe  
ul. Verkhnyaya Maslovka, d. 29  
RUS-125083 Moscow  
Tel. 095-212 50 43, 956 67 64  
Fax 095-212 47 10

## Cyprus

L&M Euroappliances Ltd  
P.O. Box 23426  
Kennedy Avenue 1A&B  
CY-Nicosia  
Tel. 02-42 05 10  
Fax 02-42 87 70

## Czech Republic

TIPA sdruzení  
Dolní nám. 9  
CZ-746 01 Opava 1  
Tel: 0553-62 49 44  
Fax: 0553-62 31 47

## Denmark

Kjaerulff 1 Development A/S  
Vestre Stationsvej 9  
DK-5000 Odense C  
Danmark  
Tel. 0661-354 80  
Fax 0661-354 10

## France

Loewe France S.A.  
11 rue de la Durance  
F-67100 Strasbourg Cédex 1  
Tel. 03-88 79 72 50  
Fax 03-88 79 72 59

## Germany

Loewe Opta GmbH  
Kundendienst Zentrale  
Industriestraße 11  
D-96317 Kronach  
Tel. 09261-990  
Fax 09261-95411

## Great Britain

LinnSight Ltd.  
PO Box 8465  
Prestwick  
UK - KA 7 2YF  
Tel. 01292-47 15 52  
Fax 01292-47 15 54

## Greece

SOUND HELLAS S.A.  
Kleanthous Str. 10  
GR-54642 Thessaloniki  
Tel. 2310-856 100  
Fax 2310-856 300

## Hungary

Basys Magyarorszagi KFT  
Epitok utja 2-4  
H-2040 Budaörs  
Tel. 023-415 637/121  
Fax 023-415 182

## Israel

RIF TRADING LTD  
29 Izhak Sade Street  
ISR-Tel Aviv 67213  
Tel. 03-62 40 555  
Fax 03-62 40 303

## Italy

Loewe Italiana srl  
Lago del Perlar, 12  
I-37135 Verona  
Tel. 045-82 51 611  
Fax 055-82 51 622

## Malta

Mirage Holdings Ltd  
Flamingo Complex  
Cannon Road  
M-Qormi  
Tel. 22 79 40 00  
Fax 21 44 59 83

## Marocco

SOMARA S.A.  
377, Rue Mustapha El Maani  
MA-20000 Casablanca  
Tel. 02-22 20 308  
Fax 02-22 60 006

## Norway

CableCom AS  
Østre Kullerød 5  
N-3214 Sandefjord  
Tel. 033-48 33 48  
Fax 033-44 60 44

## Poland

Piotech  
ul. Boh. Getta Warszawskiego 18  
PL-81-609 Gdynia  
Tel./Fax 058-62 43 467 / 058-62 45 009

## Portugal

Videoacustica  
Comercio e Representacoes de  
Equipamentos Electronicos S.A.  
Estrada Circunvalacao  
Quinta do Paizinho, Arm. 5  
P-2795-632 Carnaxide  
Tel. 21-42 41 770  
Fax 21-41 88 093

## Slovenia

Jadran Trgovsko Podjetje  
Partizanska cesta 69  
SL-6210 Sezana  
Tel. 057-310 441  
Fax 057-310 442

## South Africa

THE SOUNDLAB PTY LTD  
P.O. Box 31952  
Kylami 1684  
Republic of South Africa  
Tel. 011-46 64 700  
Fax 011-46 64 285

## Spain

Gaplasa S.A.  
Conde de Torroja, 25  
E-28022 Madrid  
Tel. 91-748 29 60  
Fax 91-329 06 71

## Sweden

Canseda AB  
Amalia Jönssons Gata 19  
S-421 31 Västra Frölunda  
Tel. 031-70 93 760  
Fax 031-47 65 15


## Switzerland

Telion AG  
Rütistrasse 26  
CH-8952 Schlieren  
Tel. 01-732 15 11  
Fax 01-730 15 02

## Turkey

Enkay Elektronik Servis Müdürlüğü  
Alemdag Cad. Site Yolu No.: 10  
Ümraniye/ Istanbul  
Tel. 0216-523 15 94/96  
Fax 0216-523 16 58

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Subject to modification.

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

# Codelist

## Loewe

DVD-Player	0539
DVD-Recorder	0741
STB	1127
VCR	0866

## DVD

3DLAB	0539
A-Trend	0714
Acoustic Solutions	0730
AEG	0788 0770
Aiwa	0641 0695
Akai	0790 0788 0690 0716 0713 0705
AKI	0718
Akira	0699
Alba	0717 0699 0713 0723 0695
All-Tel	0790
Amitech	0770
Amstrad	0713
Apex Digital	0672
Audiosonic	0690
AWA	0730
Black Diamond	0713
Blaupunkt	0717
Blue Sky	0699 0695 0713 0672 0651
Boman	0783
Brain Wave	0770
Brandt	0651 0551
Bush	0699 0690 0689 0717 0713 0818
	0695 0831 0723
C-Tech	0768
Cambridge Audio	0696
Cambridge Soundworks	0696
CAT	0699
Celestial	0672
Centrex	0672 1004
Centrum	0713
cineULTRA	0699
Classic	0730
Clatronic	0788
Clayton	0713
Coby	0730
Conia	0672
Crown	0770 0651 0690
Cybercom	0831
CyberHome	0714 0816
Cytron	0716 0651 0705

## Daewoo

Daewoo International	0770 0705 0714
Dansai	0699
Dantax	0770 0783
DEC	0723
Decca	0699 0818
Denon	0770
Denver	0490 0634
Denzel	0699 0788
Diamond	0665
Digihome	0651 0768 0723
digiRED	0713
Digitrex	0717
DiK	0672
Dinamic	0831
DiViDo	0788
DK digital	0705
DMTECH	0831
Dragon	0783 0790
Dual	0831
	0665 0651 0713 0730 0783 0790
	0831
E-Boda	0723
Eclipse	0723
Electrohome	0770
Elin	0770
Elta	0690 0770 0788 0790
Emerson	0591 0705
Enzer	0665
Ferguson	0651
Finlux	0741 0770 0783
Firstline	0651
Funai	0695
GE	0717
Global Solutions	0768
Global Sphere	0768
Go Video	0783
GoldStar	0591 0741
Goodmans	0651 1004 0790 0690 0783
	0723 0818
Graetz	0665
Grandin	0716
Grundig	0539 0695 0651 0775 0705 0790
	0713 0670 0723
Grunkel	0770
H&B	0818 0713
Haaz	0768
Hanseatic	0741

## HCM

HCM	0788
HDT	0705
HE	0730
Henß	0713
Hitachi	0664 0665 0573
Hiteker	0672
Home Electronics	0730
Hyundai	0783
Ingelen	0788
ISP	0695
Jeken	0699
JMB	0695
JVC	0623 0539 0503 1901 1940
Karcher	0783
Kendo	0699
Kenwood	0534 0490 0737
Kiirro	0718 0770
Kingavon	0818
Kiss	0665
Koda	0818
Koss	0651
Lawson	0705 0716 0768
Lecson	0696
Lenco	0699 0651 0770 0818
Lenoxx	0690
Lexia	0699
LG	0591 0741 1906
Lifetec	0651
Limit	0716 0768
Loewe	0539 1922
LogicLab	0768
Logix	0705 0783
Lumatron	0705
Luxman	0573
Luxor	1004
Magnavox	0503 0818
Magnex	0723
Manhattan	0705
Marantz	0539
Mark	0713
Matsui	0651 0695
MBO	0690 0730
MDS	0699
Medion	0651 0783 0716 0831
Memorex	0831
Metz	0571 0713
MiCO	0723

Microboss		0718		Rotel			0623	Tokai		0665	0788
Micromaxx		0695		Rowa			1004	Tokiwa		0705	0716
Micromedia	0503	0539		Saba			0651	Toshiba			0503
Micromega		0539		Sabaki			0768	Umax			0690
Microsoft		0522		Salora			0741	United	0788	0730	0790
Microstar		0831		Samsung			0573 0490	Universum	0741	0713	0591
Minax		0713		Sansui	0695	0716	0768 0723 0770	Venturer			0790
Minoka		0770		Sanyo			0670 0695 0790	Vieta			0705
Mitsubishi		0713		Scan			0705	Voxson		0730	0831
Mizuda		0818		ScanMagic			0730	Walkvision			0717
Monyka		0665		Schaub Lorenz			0788 0770	Welkin			0831
Mustek		0730		Schneider	0651	0783	0705 0790 0788	Wesder			0699
Mx Onda	0651	0723		Scientific Labs			0768	Wharfedale		0696	0723
NAD		0741		Scott			0718 0651 0672	Windy Sam			0573
Naiko		0770		SEG			0665 0713 0768	XBox			0522
Neufunk		0665		Shanghai			0672	XLogic		0770	0768
Nordmende		0831		Sharp			0630 0695	XMS		0788	0689
Omni	0690	0699		Sherwood			0717 0741 0633	Yamada			1004
Onkyo	0627	0503		Shinco			0717	Yamaha	0490	0539	0646
Optimus		0571		Silva			0788	Yamakawa	0665	0710	0765
Orava		0818		SilvaSchneider			0831	Yelo			0718
Orion		0695		Singer			0690 0716 0723	Yukai			0730
Oritron		0651		Skymaster			0730 0768	Zenith		0503	0591 0741
P&B		0818		Slim Art			0770				
Pacific	0768	0790	0713	0831			0730 0768 0690				
Palladium				0695			0718 0705 0713				
Palsonic		0689	0672				0716				
Panasonic		0490	1908				0533 0573 1903 1904				
Panda				0783			0768				
Philips	0539	0646	0503	1914			0768				
Phonotrend				0699			0783				
Pioneer	0571	0631	1900	1902			0651 0768				
Pointer				0770			0818				
Powerpoint				0718			0788				
Proline	0651	0672	0790	1004			0730 0768				
Proscan				0522			0672				
Prosonic				0699			0768				
Provision				0699			0713				
Radionette				0741			0770				
Raite				0665			0790				
Rank Arena				0718			0490 1908				
RCA		0522	0651				0770				
REC		0689	0490				0713				
Red Star		0770	0788				0690 0651				
Reoc				0768			0651 0768				
Revoy				0699			0571				
Roadstar	0699	0690	0689	0713	0818		0551 0522				

VCR														
Adyson						0072				Dansai	0072 0278	Hanseatic	0037 0209 0278 0081 0038	
Aiwa	0307	0000	0209	0348	0352	0037				Daytron		Harwood		0072
						0041				de Graaf	0042 0081 0104 0048	HCM		0072
Akai	0106	0315	0041	0352	0240					Decca	0000 0041 0081 0067 0348 0209	Hinari	0072 0209 0352 0041 0278 0240	
Akashi						0072				Deitron		Hisawa		0209 0352
Akiba						0072				Denko		Hischito		0045
Akura						0072 0041				Diamant		Hitachi	0042 0041 0000 0240 0081 0104	
Alba	0278	0072	0209	0352	0000	0315				Domland				0384
						0348 0081				Dual	0041 0081 0278 0000	Hornophone		0081
Allorgan						0240				Dumont	0000 0081 0104	Hypson	0072 0209 0278 0352	
Allstar						0081				Elbe	0278 0038	Imperial		0000 0240
Amstrad			0000	0278	0072					Elcotech		Ingersoll		0209 0240
Anitech						0072				Elin		Inno Hit	0240 0278 0072	
Ansonic						0000				Elsay		Interbuy		0037 0072
Aristona						0081				Elta	0072 0278	Interfunk		0081 0104
ASA						0037 0081				Emerson	0072 0045 0000	Internal		0278
Asuka	0072	0037	0081	0000	0038					ESC	0278 0240	International		0278 0037
Audiosonic						0278				Etzuko		Intervision	0000 0278 0037 0209 0348	
AVP						0352 0000				Fast		Irradio		0072 0037 0081
AWA			0037	0278	0642	0043				Ferguson	0041 0320 0000 0278	ITT	0106 0041 0384 0104 0240	
Baird	0106	0278	0104	0041	0000					Fidelity	0000 0072 0240	ITT Nokia		0048
Basic Line			0278	0209	0072					Finlandia	0104 0081 0042 0000 0048 0384	ITV		0278 0037
Bestar						0278				Finlux	0000 0081 0104 0042	JMB		0209 0352
Black Diamond						0642 0278				Firstline	0072 0209 0348 0043 0037 0045	Joyce		0000
Black Panther						0278					0042 0278	JVC		0041 0067 0384
Blaupunkt			1562	0226	0081					Fisher	0047 0104 0038	Kaisui		0072
Blue Sky	0037	0209	0348	0072	0352	0278				Flint		Kambrook		0037
						0000				Frontech		Karcher		0278
Bondstec						0072				Fujitsu		Kendo	0106 0209 0315 0348 0072 0037	
Brandt						0041 0320				Funai		Kenwood		0041 0038
Brandt Electronique						0041				Galaxi		KIC		0000
Brinkmann						0209 0348				Galaxis		Kimari		0047
Bush	0072	0278	0315	0209	0352	0000				GE		Kneissel	0352 0209 0348 0037	
						0348 0081				GEC		Kolster		0209 0348
Carena						0209 0081				General Technic		Korpel		0072
Carrefour						0045				Genexxa		Kuba		0047
Casio						0000				Goldhand		Kuba Electronic		0047
Cathay						0278				GoldStar	0037 0000	Kuwa		0226
CGE						0041 0000				Goodmans	0000 0072 0240 0278 0037	Kyoto		0072
Cimline						0072 0209					0081 0348 0209 0352 0642	Lenco		0278
Clatronic						0072 0000				Graetz	0041 0104 0240	Leyco		0072
Combitech						0352				Granada	0104 0048 0081 0240 0037 0226	LG		0037 0000 0278
Condor						0278					0042 0000	Lifetec		0209 0348
Crown						0278 0072				Grandin	0072 0037 0000 0278 0209	Loewe	0081 1562 0226 0866 0037	
Cyrus						0081				Grundig	0081 0347 0226 0320 0348 0072	Logik		0240 0072 0106 0209
Daewoo	0278	0642	0209	0348	0352	0045				Haaz		Lumatron		0278
										Hanimex		Luxor	0106 0043 0072 0104 0047 0048	

Magnavox						0081	Philips			0081	0384	Silva							0037	
Manesth		0072	0045	0081	0209		Phoenix				0278	Silver							0278	
Marantz			0081	0038	0209		Phonola				0081	Singer							0045	
Mark						0278	Pioneer		0067	0081	0042	Sinudyne					0081	0209		
Matsui	0209	0348	0037	0240	0352	0000	Portland				0278	Smaragd							0348	
Mediator						0081	Prinz				0000	Sonitron							0047	
Medion			0209	0348	0352		Profitronic			0081	0240	Sonneclair							0072	
Melectronic				0000	0037	0038	Proline			0000	0320	Sonoko							0278	
Memorex	0104	0000	0037	0048	0047		Proscoc				0278	Sonolor							0048	
Memphis						0072	Prosonic		0209	0278	0000	Sontec						0037	0278	
Metz	1562	0347	0081	0226	0037		Protech				0081	Sony						0032	0106	
Micormay						0348	Provision				0278	Soundwave			0037	0209			0348	
Micromaxx						0209	Pye				0081	Ssangyong							0072	
Migros						0000	Quasar				0278	Standard							0278	
Mitsubishi			0043	0067	0081		Quelle				0081	Starlite						0037	0104	
Multitec						0037	Radialva		0037	0072	0081	0048	Stern						0278	
Multitech			0000	0072	0104		Radiola				0081	Sunkai			0209	0348			0278	
Murphy						0000	Rank				0041	Sunstar							0000	
Myryad						0081	Reoc		0209	0348	0278	Suntronic							0000	
NAD						0104	Rex			0041	0384	Sunwood							0072	
National					1562	0226	RFT				0072	Supra						0037	0240	
NEC		0041	0038	0067	0104	0037	Roadstar		0240	0072	0037	0278	Symphonic					0000	0072	
Neckermann						0041	Royal				0072	T+A							0226	
Nesco			0072	0000	0352		Saba		0041	0320	0384	0278	Taisho						0209	
Neufunk						0209	Saisho				0209	0348	Tandberg						0278	
Nikkai						0072	Salora		0043	0106	0104	Tashiko		0000	0048	0240	0081	0037		
Nokia	0104	0106	0315	0041	0278	0240	Samsung				0240	0432	Tatung	0000	0041	0081	0048	0043	0209	
						0048	Sansui		0041	0067	0106	0072	0348						0348	0352
Nordmende		0041	0384	0320	0067		Sanyo			0104	0047	0048	0067	Teac	0072	0041	0000	0278	0642	0037
NU-TEC						0209	Saville			0352	0278	0240							0081	0307
Oceanic	0000	0048	0106	0081	0104	0041	SBR				0081		TEC						0278	0072
Okano		0315	0209	0348	0072	0278	Scan Sonic				0240		Tech Line							0072
Orbit						0072	Schaub Lorenz	0041	0104	0000	0106	0315	TechniSat						0348	0209
Orion			0209	0352	0348		Schneider	0072	0000	0037	0081	0278	0240	Teleavia						0041
Orson						0000					0042	0897	Telefunken		0041	0320	0384	0278		
Osaki			0000	0037	0072		Seaway				0278		Teletech			0072	0278	0000		
Osume						0072	SEG		0072	0240	0278	0642	0081	Tenosal						0072
Otake						0209	SEI				0081		Tensai			0000	0037	0072		
Otto Versand						0081	Sei-Sinudyne				0081		Tevion						0348	0209
Palladium		0072	0315	0037	0041	0209	Seleco			0041	0384	0037	Thomson		0320	0041	0067	0384	0278	
						0240	Sentra				0072		Thorn			0041	0104	0037		
Palsonic						0072	Setron				0072		Thorn-Ferguson							0320
Panasonic						1562	Sharp			0048	0037	0569	Tokai			0072	0037	0041	0104	
Pathe Cinema						0043	Shintom				0072	0104	Tokiwa							0072
Pathe Marconi						0041	Shivaki				0037		Topline							0348
Perdio						0000	Siemens		0037	0104	0081	0320	0347	Toshiba		0045	0041	0384	0043	0081
Philco						0038	Siera				0081		Towada							0072

Tredex					0278	Athena					0668	Discovery						0668	0710		
Uher				0037	0240	Atlanta					0871	Diseqc							0710		
Ultravox					0278	Aurora					0879	Distratel			0084	0885			1205		
Unitech					0240	Austar		0863	0642	0497	0879	1176	Distrisat						0200		
United Quick Star					0278	Avalon						0396	DMT						1075		
Universum		0000	0081	0240	0037	Axiel					0668	0710	DNT					0200	0396		
				0348	0209	Axis					1111	0834	DREAM multimedia.TV						1237		
Victor					0067	Beko						0455	DStv					0642	0879		
Watson		0081	0352	0278	0642	Bentley Walker						1017	Echostar	0610	1169	0871	0167	0853	1086		
Weltblick					0037	Blaupunkt						0173		1200	0454	0396	0713	0668	0511	0453	
Yamaha					0041	Blue Sky						0713	0885	Einhell				0132	0713	0501	
Yamishi				0072	0278	Boca						0132	0713	Elap			0713	1129	0668	0710	
Yokan					0072	Boston			0132	0710	0668			Elsat						0713	
Yoko		0037	0072	0240		Broco						0713		Elta						0200	
ZX					0209	BskyB					0847	1175	Emme Esse							0871	
						BT					0668	0710	Engel						1017	0713	
<b>SAT (STB)</b>						Bubu Sat						0713	EP Sat							0455	
@sat					1300	Cambridge						0501	Eurieult			0084	0885			0882	
ABSat		0668	0123	1323	0710	Canal Satellite						0853	Eurocrypt							0455	
ADB					0642	Canal+						0853	Europa			0863	0607	0501		0200	
Adcom					0200	Cherokee				0123	0710	1323	Europhon						0299	0607	
AGS					0668	Chess			0157	0605	0713	1085	Eurosky	0607	0132	0299	0115	0114	0501		
Akai					0200	CityCom			1176	0115	0607	0299	Eurostar							0607	0115
Akena					0668	Clemens Kamphus					0834	0396	Fenner			0668	0157	0605		0713	
Alba					0455	0713	Cobra					0396	Ferguson							0455	
Allsat		0200	1017	1043		Colombia					0668	0132	Fidelity							0501	
Alltech					0713	Columbia						0132	Finlandia							0455	
Alpha				0668	0200	Columbus						0668	Finlux					0573		0455	
Altai					0396	Comag						0132	Flair Mate							0713	
Amitronica					0713	Condor						0607	Force							1101	
Ampere					0396	0132	Connexions					0396	Fortec Star						1017	1083	
Amstrad	0847	0713	0742	0396	0132	0882	Conrad		0607	0573	0115	0501	Foxtel	0879	0720	0455	0497	0795	1176		
		0885	0863	0501	0795	1113	Conrad Electronic					0607	0713	Fracarro						0871	0668
Anglo					0713	Cryptovision						0455	0795	Freecom						0501	0173
Ankaro					0713	Cyrus						0200	Freesat								0882
AntSat					1017	1083	D-box			1127	1114	0723	FTEmaximal							0713	0863
Apollo					0455	Daeryung						0396	Fuba			0396	0173	0573	0115	0299	
Arcon		1205	1043	0834	0132	1075	Daewoo				1296	0713	Fugionkyo								1105
Armstrong					0200	Delfa						0863	Galaxis	1111	1101	0834	0863	1176		0853	
Asat					0200	Deltasat						1075	0115	0879							
ASLF					0713	DGTEC						1242	Garnet								1075
AssCom					0853	Digatron						1294	GF						0834	1043	
Astacom					0668	0710	Digenius					0299	GF Star								1043
Aston					1129	Digiality						0607	GOD Digital								0200
Astra					0607	0713	Digipro					1105	Goldbox								0853
Astro	0133	0173	0501	0658	0607	1113	DigiQuest					0863	Goldvision								1017
				1099	1100	0200	Discoverer					0605	0157	Gooding							0571



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Gradiente		0887	LaSAT	0607	0115	0132	0157	0299	Okano										0668			
Granada		0455	Lenco			0713	0115	0607	OnDigital	0751	0329	0241	0867	0133								
Grandin		0084	Lenson					0501	Optex										0834			
Grundig	0173	0847	Lexus					0200	Optus									0879	0853			
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HDT		1011	Luxor					0573	0501	Pace	0455	0847	0887	1175	0241				0867			
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Helium		0607	Manata			0710	0668	0713						0853	0710				1423			
Hirschmann	0396	0882	Manhattan1083	0455	0710	0668	0834	1017		Packsat									0710			
	0573	1085	Marantz					0200		Palcom									0299			
Hitachi		0455	Maspro			0750	0713	0173	0571	Palladium								0571	0501			
HNE		0742	Matsui				0571	0710	0173	Palsat									0501			
Houston		0668	Max						0607	Panasat									0879	0615		
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Huth	0132	0607	Mediabox						0853	Panda			0455	0607	0173	0834						
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Interstar		1105	Metronic	0713	1215	0084	0885	1205		Planet									0871	0396		
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Invideo		0871	Micro			0607	0501	0713		Praxis										0511		
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Italtel		0871	Micro Technology						0713	Premiere	0853	1114	1127	0723	1111	1176						
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JOK		0710	Microtec						0713	Primacom										1111		
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K-SAT		0713	Mitsubishi						0455	Promax										0455		
Kamm		0713	Morgan's			0200	0713	0132		Prosat										0628		
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Kathrein Eurostar		0115	Mysat						0713	Quelle					0607	0742				0115		
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Klap		0668	Neuhaus			0501	0713	0834	0607	Radix				0396	1113	0882						
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 Thomson 0455 0713 0853 0115 0607 1291  
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