

Operating instructions.

▪ Digital TV retrofit kit 2 T-CI

Accessories.



233-31789.001

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Welcome

Thank you

for and congratulations on choosing the Loewe Digital-TV upgrade kit 2 T-CI.

This integrated digital receiver module with two slots for Common-Interface modules (CI) enable you to receive a number of free digital and coded TV stations which are broadcasted terrestrially.

This reception module also allows reception of digitally broadcast radio stations if this feature is offered by the station providers.

For coded stations you only need a Common Interface module and a Smartcard from the program provider.

Both are available from dealers.

Digital TV and radio stations usually offer not only a better sound and picture quality than conventional analog stations but also provide numerous additional functions which are explained in this manual.

Please read this manual carefully and thoroughly in order to make the best possible use of all your receiver's functions. You will find an explanation of the terminology used herein at the end of the manual in the Index chapter.

General information

Range of stations

How many and which stations you can receive essentially depends on your location and your antenna system, e.g. roof antenna or indoor antenna.

Ask your dealer to find out which is the best antenna for your location.

The digital TV upgrade kit 2 T-CI offers you the following advantages:

- All terrestrially received digital and analog stations are shown in a station table
- All stations can be called with one common remote control
- Support of Dolby Digital
- Support of EPG (the electronic program guide)
- The digital programs can be recorded with a VCR
- Reception of coded stations (Pay-TV, Premiere if available)

Connecting antenna

Connect the antenna cable from the roof antenna to the antenna socket "VHF/UHF IN" on the back of your TV set to receive digitally broadcast programs.

An indoor antenna can also be used under good reception conditions. Passive and active room antennas are offered commercially. In an active antenna the power is supplied via the antenna connection "VHF/UHF IN". In the "TV-Menu – Settings – Terrestrial Antenna" the supply voltage (5 Volt) must be set accordingly.

It is advisable to use an antenna without directional characteristic. If the location is outside the normal transmission range, a directional antenna (Yagi) can also be used to improve the reception quality.

You can obtain more detailed information about receivable digital stations in your area from your dealer.

The plugged antenna bridge cable (see fig. on page 5/6) feeds the antenna signal to the second VHF/UHF tuner with which you can receive additional analog TV stations.

If you have a "picture in picture" tuner (PIP), the antenna signal also has to be fed to this tuner (plug plugged into the "PIP" socket).

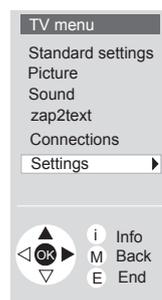
** Remove the antenna bridge cable (fig. page 5 or 6) and connect this terminal to the cable system if you want to receive analog TV programs from the cable network.

Determining antenna position and aligning the antenna

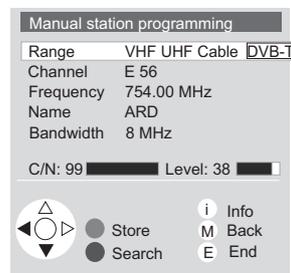
For optimum alignment or determination of the suitable installation location of the antenna your TV set has an indicator for the signal quality **C/N** and signal strength **Level**. Ask your dealer on which channels and frequency bands (VHF or UHF) digital TV programs are broadcasted. Several digital programs are transmitted on one channel.

Choosing a TV channel

1. Call the "TV menu" with the **M** button.



2. Select the "Settings" line and confirm with **OK**.
3. Select the "Channels" line and confirm with **OK**.
4. Select the "Set manually" line and confirm with **OK**.



5. For digital programs select "Range – DVB-T".
6. Enter the appropriate channel number with the numeric buttons. The corresponding bandwidth 7 or 8 MHz is set depending on the channel and country.

Notes

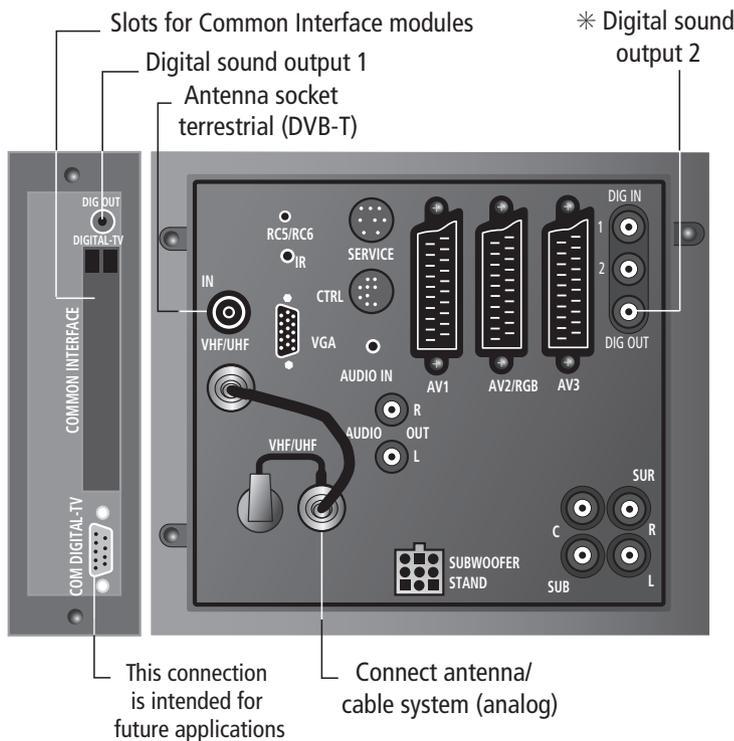
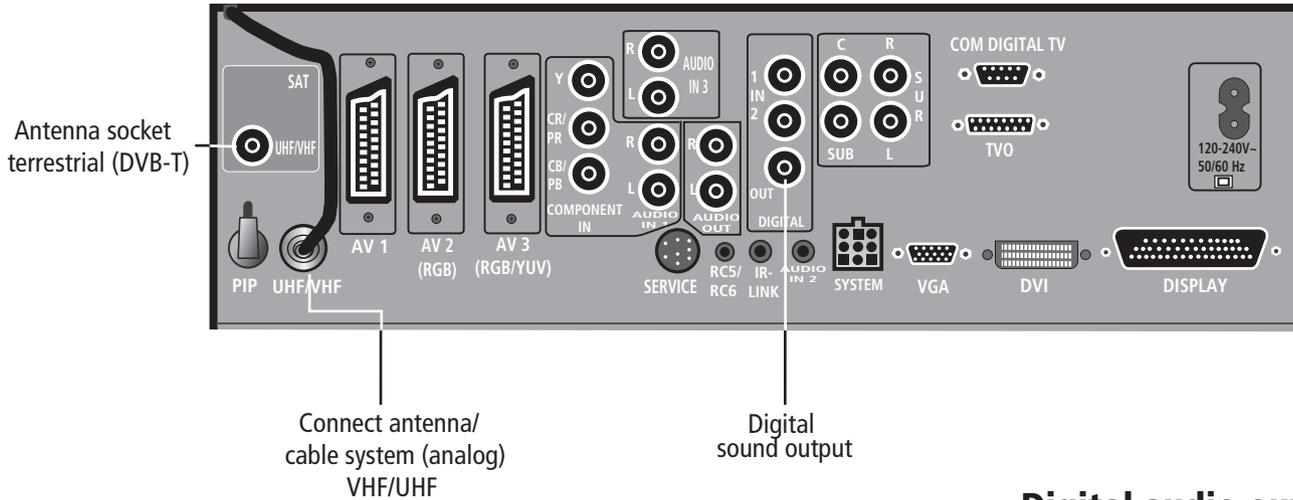
- The bandwidth should only be adapted in exceptional cases if for example frequency conversion takes place in house distribution systems, e.g. from UHF to VHF or vice versa.
 - If you receive a digital program, the signal quality **C/N** and the signal strength **Level** is displayed by a black bar/numeric value. The antenna alignment or position is at an optimum when as constant and high a value as possible (large bar) is displayed for the signal quality and signal strength. Align the antenna to a maximum bar/numeric value.
 - If no signal is found in the set channel, the frequency search starts automatically within the selected band (VHF or UHF).
7. Check other channels on which digital programs are broadcasted terrestrially in your area one after another. Align the antenna using the weakest station to as constant as possible and maximum bar/numeric value.

Note

After the antenna has been positioned and aligned, we recommend the "Automatic station search and store" function to search for all stations (see page 7).

Connections on rear of unit

Signal Box Spheros 42 HD



Digital audio output

You can use the digital audio signals which your TV receives for playing or recording the sound by an external audio system. The digital audio output on the DVB-T module (see fig. page 5/6) only outputs the sound of the digital TV or radio station if available. In the Spheros 42 HD the digital audio signal is output at the "OUT DIGITAL" socket.

TV set

Settings

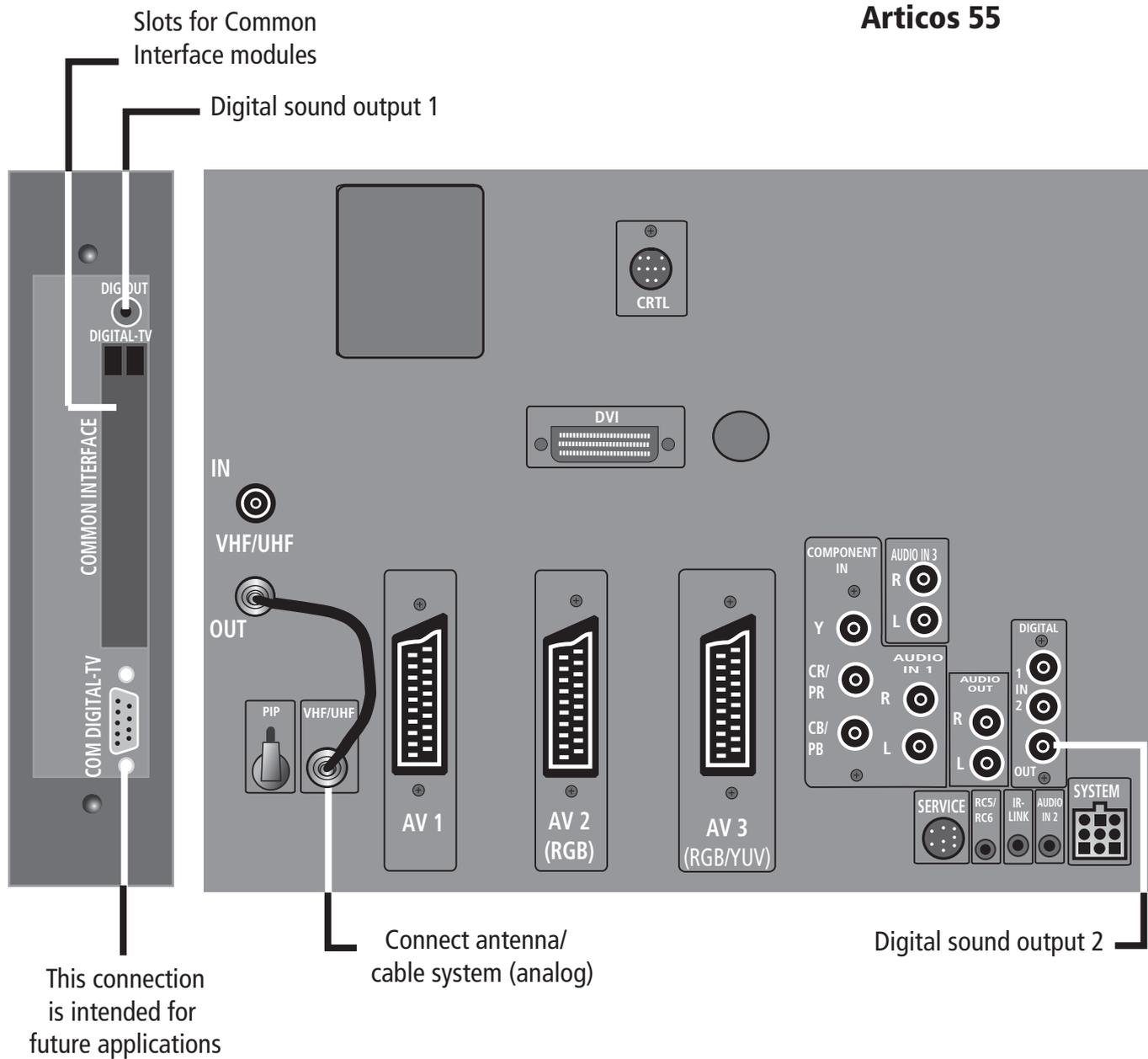
** You can set the digital sound format in the "TV-menu – Sound" – "Digital-DVB-Audio Output" (if available). If "Automatic" is set the highest value digital sound on offer is output at the digital audio output. If you have connected a unit which can only handle PCM stereo sound, select "Only PCM".

** Function is not available when "Auro/Certos" connected.

* The illustration shows the full unit equipment; variations are possible depending on the unit model.

Connections on rear of unit

Articos 55



Initial start-up

Preparing for initial installation

- Make sure an antenna for the VHF/UHF range is connected to the "IN VHF/UHF" antenna socket.
With this antenna you can receive both digital and analog stations providing they are broadcasted in your area.
The antenna bridging cable must also then be plugged for analog stations.
- If your TV has been upgraded later with the "Digital-TV upgrade kit 2 T-CI" we recommend you to perform the "**Programs –Automatic Search**" function. You can search for and store analog and digital (DVB-T) programs.

Note:

The function "Repeat initial start-up" deletes any stored programs and personal settings.

- If you also want to receive coded stations, the Common-Interface module (CI module) and the appropriate Smartcard must be inserted in the slot of the TV set, see the chapter "Inserting the Common-Interface module".

Automatic station search and store

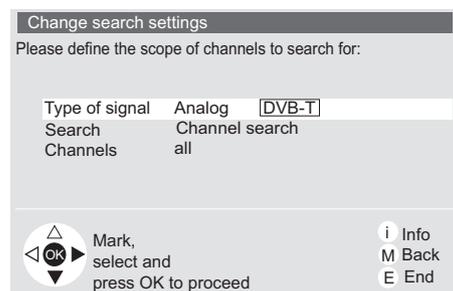
1. Switch on your TV and if no menu is displayed, call the "TV-menu" by pressing the **M** button on the remote control
2. Select the "Settings" item and confirm with **OK**.

Note:

If you use an active terrestrial antenna, this requires a supply voltage (5 Volt). In this case select the "Terrestrial Antenna" line in the "TV menu". Press the OK button and then select "yes (5 V)".

Pressing the **M** button returns you to "Settings".

3. Select the "Channels" line and confirm with **OK**.
4. Select "Automatic search" and confirm with **OK**.
You get a table for the automatic program search.
5. Select "Change search settings" and confirm with **OK**. Follow the menus.



6. Specify whether you want to search for digital (DVB-T) or analog stations.
In DVB-T you can select a channel search (fast station search) or a frequency search.
In addition you can have all stations or only new ones searched for.
7. Confirm your selection with **OK**.
8. Specify from which program place the stations are to be stored and confirm with **OK**.
9. Select „Start search“.

Notes:

- The frequency search option is to be preferred only in exceptional cases such as in the event of deviations from the standardized channels.
- If you have purchased a CI module, please insert it before you start the search because only then will the provider's coded programs be recognized and stored. You can insert and use two CI modules in the two slots simultaneously.

- If you change the CI module or insert an additional one later, you have to run a new station search so that the stations of the new provider can be found and stored.
- Which of the programs of the provider you can watch in the end depends on which program package you have bought.
- To extend an existing station list we recommend you to activate the option search and store "new stations only".

10. Start the station search with **OK**.

The station search may take some time.

Do not make any entries or switch off the set during this time.

When the search has ended you will be shown the found and stored stations sorted in numerical order.

If you also want to search for and store analog programs, press the **M** button. Repeat the steps 5 to 10.

Select "**Analog**" in step 5 and the transmission standard, e.g. "**Autom.–BG**". After the station search has been completed, hide the table by pressing the **E** button.

Station sorting

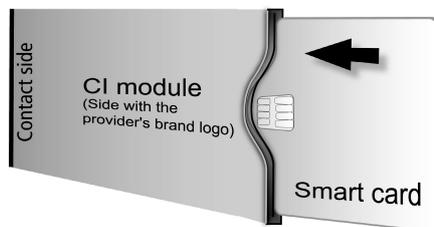
You can change the automatic station sorting later at any time as you like.

Initial start-up

Inserting the Common-Interface module

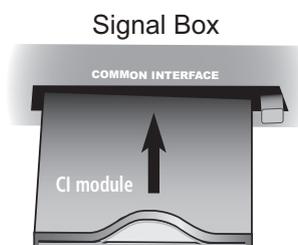
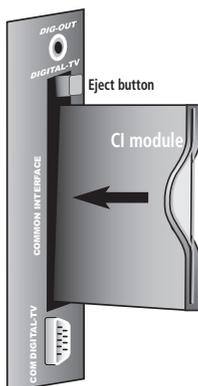
In order to receive encrypted channels, the Common-Interface module (CI module) for the Smartcard has to be inserted in the appropriate slot of your TV. If this is not already the case, you have to insert it. You will find the slots on the back of your Loewe-TV-set or on the front of the signal box (in Spheros 42 HD).

1. Switch off your TV set with the On-Off switch on the TV.
2. First push the Smartcard into the CI module as far as possible. The side with the golden contact chip needs to face the side of the module printed with the provider's logo. Printed arrows show you how to insert the card.



Please also observe the installation instructions enclosed with the Smartcard.

3. Push the CI module carefully, contact side first, into one of the two slots labeled "Common Interface". The side printed with the provider's logo must face left or up.



Make sure the module is not inserted skew. Do not use force. The eject button is pressed out when the module snaps in.

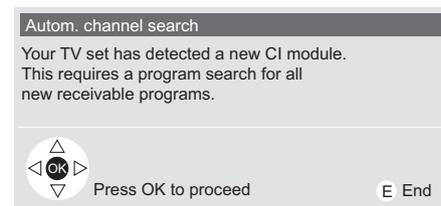
Removing the CI module

You can remove your Common-Interface module to receive encrypted channels on another TV set.

1. Switch off your TV at the power switch.
2. Press in the eject button on the slide-in module, the module jumps out.
3. Pull the module out of the set.

New CI module plugged

After plugging a new CI module and switching on the TV set, the following dialog box appears:

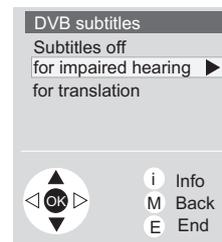


After pressing the **OK** button, the wizard for the automatic station search is started. Please check the suggested search parameters there. Continue with the section "Automatic station search" on page 7.

Default for DVB subtitles

If the station provider offers DVB subtitles, you can have these displayed permanently or suppress the display. You can also choose between "Translation" or subtitles for the persons with hearing impediments.

1. Call the "TV-menu" with the **M** button.
2. Select the "Settings" line and confirm with **OK**.
3. Select the line "DVD subtitles" and confirm with **OK**.



If you select "Subtitles off" there is only a display in the status bar. See page 11 for showing subtitles again.

Initial start-up

Digital radio stations search and store

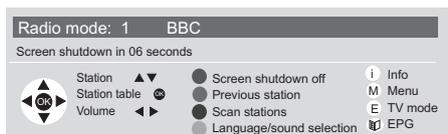
Your receiver can receive and play radio programs in high quality as well as TV programs.

Note: Digital radio programs are not broadcasted in the DVB-T standard in all regions at present.

Radio stations are stored in a separate station table.

You can search for and store digital radio stations in "Radio-menu".

1. Select radio mode.
2. Call the Radio menu with the **M** button and select the "Radio stations" line.
3. Confirm with **OK**.



4. You can have the radio stations searched for automatically or manually.



In the "Manual adjustment" menu you can decide whether to search for an store "all" digital radio stations or "Only new radio stations".

You can search for channels or frequencies. Follow the wizard.

5. Finally enter from which program place the found stations are to be stored.
 6. Press the **OK** button.
You now get a summary of the settings you have made.
 7. Select the line "Start search".
 8. Start the search with **OK**.
- If radio stations have been found and stored you get a station table at the end.

Manual station setting

You can also search for and store stations manually. However, detailed knowledge is necessary for manual programming.

1. Activate the appropriate menu – depending on whether you want to set TV or radio stations – in the respective mode (TV or Radio) with the **M** button.
2. Select "Settings – Stations" in the TV-menu or "Radio Stations" in the Radio menu.
3. Select the item "Manual adjustment".
4. Then enter the necessary setting parameters for every menu item. You can get explanations of the individual menu items when the **i** button is shown in the menu and you press this button on the remote control.

Note

Several radio and TV stations can be broadcast on every channel.

Daily handling

Changing stations with the station table

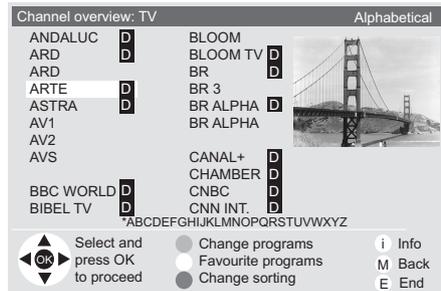
The station table shows the currently stored stations in numerical order:



You can change this sorting to:

- alphabetical
- in bouquets
- back to numerical

To change the sorting, please press the blue button on your remote control. The alphabetical sorting now appears:



The bouquet sorting appears when you press the button again:



Sorting according to bouquet lists the stations in groups of providers.

Every entry is explained by a symbol to the right:



Status display

When you change to a digital station a status display appears for a few seconds which informs you about the program which is currently showing and about which options the program provider offers for this program:



In the bottom line you can see the name of the program. Further display options which can be selected in "TV menu – Settings – On-screen displays" are shown above it (time, reminder time, switch-off time etc.)

The selection options which the program provider offers for this station are preceded by color button symbols or the T button:

- Channel selection red button
- Language/Sound select green button
- Time select yellow button
- Child protection blue button
- DVB-T subtitles T button

If you press the color button or the T button while the status display is shown, the appropriate selection menu is displayed, below for example for the language/sound selection.



The subtitles of the status bar refer exclusively to the "DVD subtitles" and are not offered by all station providers. Which options you see depends on the respective program provider. Many program providers broadcast subtitles by teletext.

The status bar is displayed automatically when you change stations or when a new program with different options to the previous program begins.

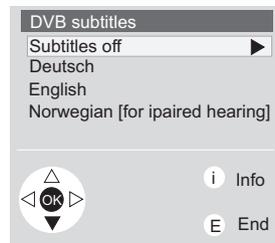
Daily handling

Notes:

- Selection menus are only available as long as the status bar is displayed. However, you can call it again at any time by pressing the **E** button on your remote control.
- With built-in Digital-TV upgrade kit 2-T CI simplified operation can no longer be set in the menu.

DVB subtitles

- Call the status bar by pressing the **E** button if this is not already displayed.
- Press the **T** button if the status bar is visible.



Select the language and confirm with **OK**. The default changes for the current program.

- The selectable subtitle languages depend on the program provider.
- The automatic pre-selection is determined by the menu language and the selection in the "DVB-Subtitle" setting menu.
- Hide the menu by pressing the **E** button.

Picture in picture (PIP)

You can watch two analog or one digital and one analog program on your screen at the same time.

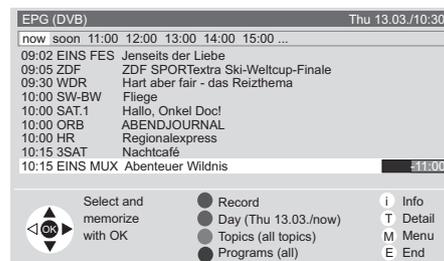
Activate the function with the button (PIP) on your remote control.

You will find further information about the picture in picture function in your TV operating manual.

The subtitles can only be selected by the status bar in the main picture.

Electronic Program Guide (EPG)

The electronic program guide also contains a station table for your digital programs. You can activate and use them as usual by pressing the button  on your remote control.



Recording programs

If you have connected a VCR to your TV, you can record digital and analog TV programs.

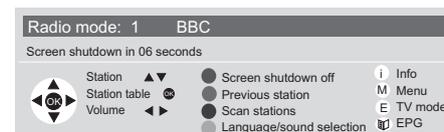
It is preferable to use the record function (red button) in the EPG.

Detailed instructions for handling video recorders can be found in your VCR or Loewe TV operating manual.

You can record a digitally transmitted program and watch an analog program at the same time or vice versa.

Playing radio stations

To play radio station, first call up radio mode.



Call the station table by pressing the **OK** button. You can then call, sort and rename radio stations etc. exactly the same as for TV stations.

If the radio station provider offers different language and sound options, the green "Select language/sound" button is visible in the radio menu. When you press this you are shown the playback options available for the current program.

Calling the CI module menu

Here you can call information about the plugged Common-Interface module and Smartcard. To do this, call the TV menu, select the "Settings" line and then the item "CI-Module I/II - xxx".

The content of this menu depends on the respective CI module provider.

Note:

This menu is only available with digital programs.

What to do when... Malfunctions, their causes and remedies

Problem	Possible cause and remedy
No reception with active antenna	Activate the supply voltage, see page 4 chapter "Connecting antennae".
Picture and sound interference (block formation)	Optimize the position or alignment of the reception antenna, see page 4.
Message "No signal"	<p>An antenna signal is unavailable. Possible causes:</p> <ul style="list-style-type: none"> • The antenna cable is not connected or not connected to the right socket (IN VHF/UHF) • The antenna system is not connected correctly. Check your settings. • The antenna is not aligned correctly or reception is impaired (e.g. antenna iced over or covered by snow, indoor antenna in wrong position, for an active antenna the supply voltage of 5 Volt is missing).
Message "Stations no longer available"	<p>The stored station data are no longer available. Possible causes:</p> <ul style="list-style-type: none"> • The program has stopped working. • The program has changed the transmission parameters. • Repeat the automatic station search.
The picture in picture (PIP) function is not available.	<ol style="list-style-type: none"> 1. To watch two programs at once or to watch one and record another, antenna signals must be fed to both antenna connections "IN VHF/UHF" and "VHF/UHF". 2. You are trying to watch two digital programs at the same time but you can only watch either two analog (in PIP) or one analog and one digital program simultaneously. 3. The PIP function is only limitedly available or not available at all with certain coded programs.
I have changed the CI module and Smartcard but the stations of the new provider are unavailable in the station table.	In order to be able to watch the programs of the new provider after changing a CI module, you have to run the station search again (see page 7).
Message "Station coded"	<p>The selected program cannot be decoded. Possible causes:</p> <ul style="list-style-type: none"> • No suitable CI module is available or the module is not plugged correctly. • The Smartcard is not plugged. • The station is not released.

Problem	Possible cause and remedy
No coded programs are shown in the station table although the CI module and the Smartcard of the provider are used.	CI module and/or Smartcard are possibly not inserted correctly (see the section "Connection and initial start-up"). You can check whether the module and card are inserted correctly by having the CI module settings displayed (see page 11). If no information is displayed for CI module, Smartcard or CI software, the module and card are not installed correctly. Insert the module and card correctly and repeat the program search (see page 7).
Message "Transmission break"	The program is not available at present.
Message "Please wait"	Important data are being stored. This may take a few seconds. Please do not switch the set off during this time.

Loewe Hotline

If you are still unable to resolve the problem, please contact your dealer or the Loewe Hotline:

Telephone: +49-(0)1801 222 563 93

Fax: +49-(0)9261 99 500

Internet: www.loewe.de

E-mail: www.loewe.de (contact section)

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CI module (Common Interface)

A CI module is a decoder module for digital TV and radio programs according to the CI standard.

To show the coded programs a released Smartcard of the program provider is required in addition to a CI module. A CI module for digital TV and radio stations is often also referred to as CICAM (Common Interface Conditional Access Module).

Common Interface (CI)

Standardized interface for accommodating interchangeable CI modules. For receiving and showing coded digital TV and radio programs, an appropriate CI module with a released Smartcard of the program provider is required.

Conditional Access System (CA-System)

A CA system codes and decodes digital programs. A program provider scrambles (encodes) his programs for licensing or financial reasons for broadcasting. The signal is decoded again in the terminating device for example by a suitable CI module. There are various CA system providers. Almost all of them have been ported to the CI, i.e. the appropriate CI modules are available.

DVB-T

Digital Video Broadcast Terrestrial: Digital TV Transmission Terrestrial. Standard for digital TV used in Europe and other countries.

EPG

Electronic Program Guide: your TV's electronic program guide

Smartcard

A released Smartcard from the appropriate program provider is necessary for decoding coded DVB programs (Digital-TV and Digital-Radio). The Smartcard authorizes the user to decode a certain program package.

C/N: Carrier to Noise

Signal to noise ratio

The greater the pointer bar or number the better the reception signal quality.