

**COLOR
TELEVISION**

GIGAMETER

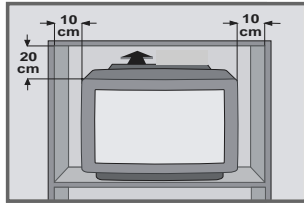
**Xentia 72
MFS 72-4610/8 TOP**

**DEUTSCH
ENGLISH
ČESKY**

CONTENTS

3	Set-up and safety
4	Connection/Preparation
4	Connecting the antenna and the mains cable
4	Inserting batteries in the remote control
5-7	Overview
5-6	The remote control
7	The front of the television set
8-12	Settings
8	Setting television channels automatically
8-9	Changing stored channels
10	Picture settings
11-12	Audio settings
13-14	Television operation
13-14	Basic functions
14	Zap function
15-16	Teletext mode
15	TOP text or FLOF text mode
15	Normal text mode
15-16	Additional functions
17-20	Convenience functions
17	Freeze-frame
17	Channel scan
18-19	Convenience functions with the »Settings« menu
19-20	TV Guide
21	Parental lock
21	Activating the parental lock
21	Deactivating the parental lock
22-24	Using external devices
22	Decoder or satellite receiver
22	Headphones
23	Video recorder, DVD player or SET-TOP box
24	Camcorder
24	HiFi system
25-27	Special settings
25-27	Setting television channels
28-30	Information
28	Technical data
28	Service information for dealers
29	Troubleshooting
30	Additional Information for units sold in the UK

SET-UP AND SAFETY



Please note the following information when setting up your television set.

This television set is designed to receive and display video and audio signals.

Any other use is expressly prohibited.

The ideal viewing distance is 5 times the screen diagonal.

External light falling on the screen impairs picture quality.

Ensure sufficient clearance between the TV and the wall cabinet.

The television set is designed for use in dry rooms. If you do use it in the open, please ensure that it is protected from moisture, such as rain or splashing water. Do not expose the television set to any moisture.

Do not place any vessels such as vases on the television, as they may spill liquid, thus presenting a safety risk.

Place the television set on a solid, level surface. Do not place any objects such as newspapers on the television set or cloth or similar items beneath it.

Do not place the television set close to heating units or in direct sunlight, as this will impair cooling.

Heat build-up can be dangerous and shortens the operating life of the television set. For reasons of safety, have a specialist remove any dirt deposits in the set from time to time.

Keep the television set away from magnetic fields (loudspeaker boxes, for example).

Do not open the television set under any circumstances. Warranty claims are excluded for damage resulting from improper handling.

Ensure that the mains cable is not damaged.

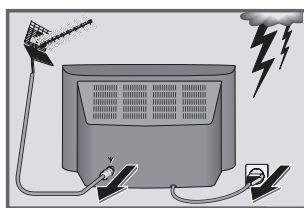
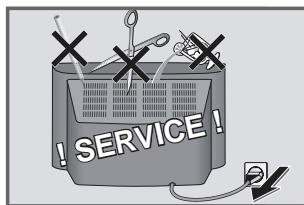
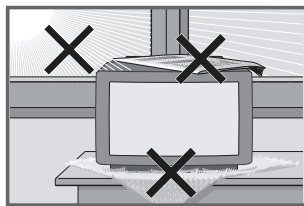
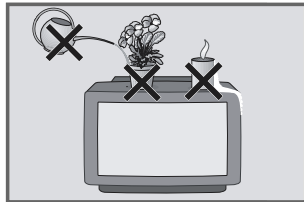
Thunderstorms are a danger to all electrical devices. Even if the television set is switched off, it can be damaged by a lightning strike to the mains or the antenna cable. Always disconnect the mains and antenna plugs during a storm.

Clean the screen with a soft, damp cloth. Only use plain water.

Note:

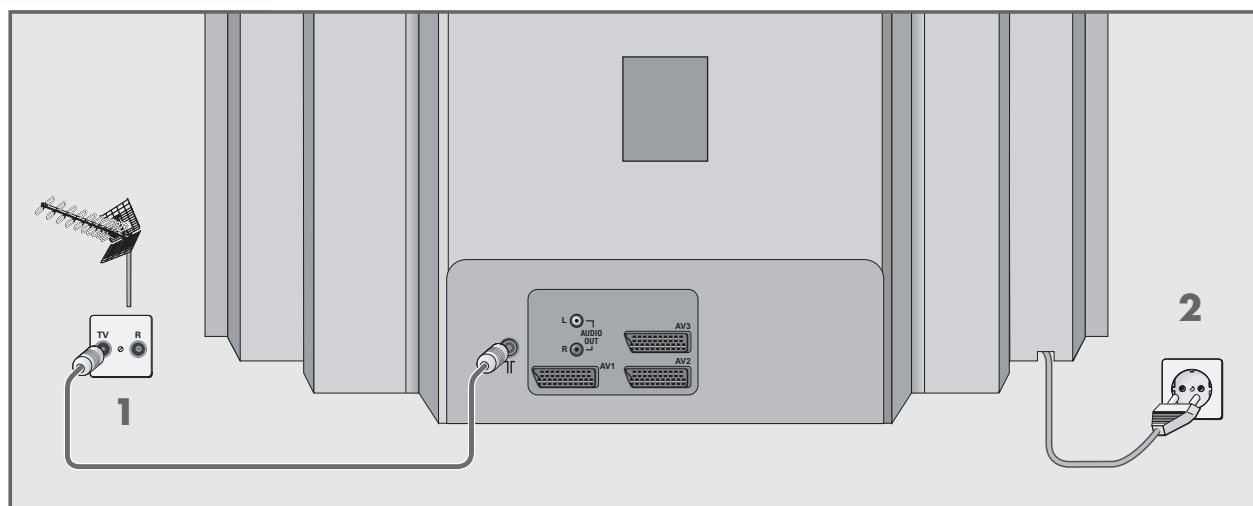
Do not connect any other equipment while the device is switched on. Switch off the other equipment as well before connecting it.

Only plug the device into the mains socket after you have connected the external devices and the antenna.



CONNECTION/PREPARATION _____

Connecting the antenna and the mains cable

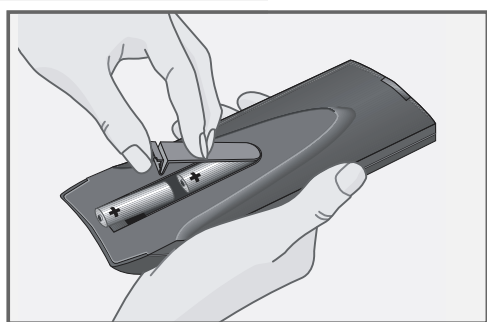


- 1 Plug the antenna cable of the rooftop antenna into the »T« antenna socket on the television.
- 2 Plug the mains cable into the wall socket.

Note:

Only plug the device into the mains socket after you have connected the external devices and the antenna.

Inserting batteries in the remote control



- 1 Open the battery compartment by removing the lid.
- 2 Insert the batteries (Mignon type, for example UM-3 or AA, 2x1,5V).
Observe the polarity (marked on the base of the battery compartment).
- 3 Close the battery compartment.

Note:

If the television no longer reacts properly to remote control commands, the batteries may be flat. Be sure to remove used batteries.

The manufacturer accepts no liability for damage resulting from used batteries.









Environmental note

Batteries, including those which contain no heavy metal, may not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

OVERVIEW

The remote control



-  Switches off the television set (stand-by)
- 0...9** Switches the television on from standby mode
Selects channels directly
- ?** Displays the number and name of a station.
Reveals answers in teletext mode.
-  Switches between picture formats.
Page stop in teletext mode
- PIP** Key has no function.
- AV** Selects the AV channels and the most recently viewed television channel.
Switches to double character size in teletext mode
-  Sound on/off (mute)
- i** Calls up the »Main menu«
- Z** Zap function
- P+, P-** Switches the television on from standby
Selects stations step by step
Moves the cursor in the menus up and down
-  Adjusts the volume
Moves the cursor left/right
- OK** Calls up the preset channels
Activates various functions
- TXT** Switches between teletext and TV modes
- TV-G** Calls up the TV Guide (information about the current and next broadcast).
-  Selects various picture settings;
scrolls back a page in teletext mode.
-  Displays the time.
Selects the next page in teletext mode.
-  Freeze-frame
Selects the desired chapter in teletext mode
-  Selects various audio settings;
selects the desired topic in teletext mode

OVERVIEW

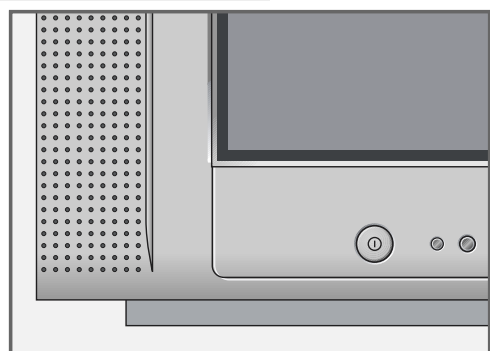


- SCAN** Selects the channel scan function
 - PAT** Selects the Double Window function
 - S** Selects the sub-pages in teletext mode
 - P** Updates a page in teletext mode
 - DR, DVD** Switches to operation of a GRUNDIG digital receiver, GRUNDIG digital receiver with hard disk (PDR), GRUNDIG DVD player or GRUNDIG DVD recorder.
Keep the appropriate button (»**DR**«, »**DVD**«) pressed down. Then press the appropriate button.
- Note:**
The »**DR**« button has been programmed for operating a GRUNDIG digital receiver (remote control level 1).
The »**DVD**« button has been programmed for operating a GRUNDIG DVD player.
You can change this programming, see »**AUX**« button.
The functions available depend on the model of the device you are using.
Just try it out.

- AUX** Programming the remote control for the operation of external devices.
Press »**AUX**« and hold it down and press three numerical buttons to enter the appropriate code:
 »**1**«, »**2**«, »**3**« for a GRUNDIG DVD player.
 »**4**«, »**5**«, »**6**« for a GRUNDIG DVD recorder.
 »**1**«, »**4**«, »**7**« for a GRUNDIG digital receiver (remote control level 1).
 »**2**«, »**5**«, »**8**« for a GRUNDIG digital receiver (remote control level 2).
 »**3**«, »**6**«, »**9**« for a GRUNDIG digital receiver with hard disk (PDR).

OVERVIEW

The front of the television set



Switches the television into and out of standby mode

+ PR -

Channel selection
Switches the television on from standby

+ VOL -

Adjusts the volume

L AUDIO R

Audio signal input for camcorder

VIDEO

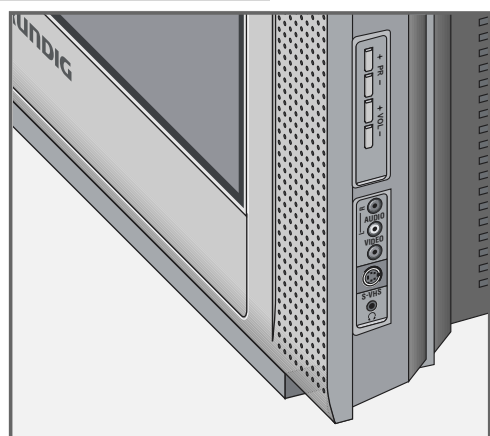
Video signal input for camcorder

S-VHS

Video signal input for S-video camcorders



Headphone jack (3.5 mm ø jack plug)



SETTINGS

Setting television channels automatically

The television set is equipped with an automatic channel search system.

You start the search and can then sort the television channels into your order of preference.

100 preset positions are provided, to which you can assign television channels from the antenna or from the cable connection.

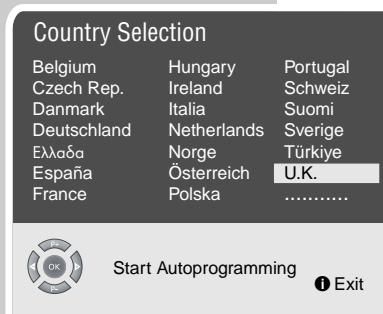
You can also delete television channels from the channel list which were found more than once or which have poor reception.

- 1 Switch on the television with »**ⓘ**« on the television set, then press »**P+**« on the remote control.
 - The »Language« menu appears when the television is first switched on.

Hint:

If the »Language« menu does not appear on the screen, then set it in accordance with the chapter on resetting all television channels on page 27.

- 2 Select language with »**P+**«, »**P-**«, »**◀**« or »**▶**« and press »**OK**« to confirm.
 - The »Country Selection« menu appears.
- 3 Select the country using »**P+**«, »**P-**«, »**◀**« or »**▶**«.
- 4 Press »**OK**« to start the automatic search.
 - The automatic search may last a few minutes, depending on the number of television channels received.
 - After performing the search, the menu »Provider Selection« is displayed, (only if a provider was found). Kabel 1 in Germany, for example.) Press »**P+**« or »**P-**« to select the TV Guide provider and confirm by pressing »**OK**«.



Changing stored channels

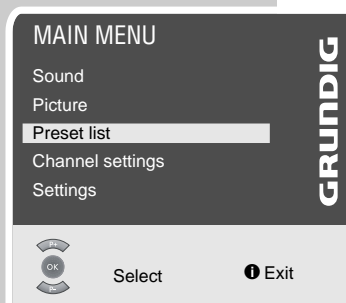
You can delete channels that have been stored more than once during the automatic search. You can also store channels in a different preset position, change or enter the name of a channel as well as skip channels.

Selecting the station list

- 1 Press »**i**« to open the »MAIN MENU«.
- 2 Select »Preset list« with »**P+**« or »**P-**« and confirm with »**OK**«
 - The »Preset list« menu appears.

Note:

Further operation is explained in the following sections.



SETTINGS

Deleting channels

- 1 In the »Preset list« menu, select the station to be deleted by pressing »P+«, »P-«, »◀« or »▶«.

- 2 Press »□□« (yellow) to delete the channel.

Note:

To delete other stations, repeat steps 1 and 2.

Sorting television channels

- 1 In the »Preset list« menu, select the channel to be moved with »P+«, »P-«, »◀« or »▶«.

- 2 Highlight the channel with »⌚« (green).

- 3 Select a new channel position by pressing »P+«, »P-«, »◀« or »▶« and then press »⌚« to confirm.
– All of the channels that follow move up one position.

Note:

To sort the other television channels repeat steps 1 to 3.

Entering the channel names (maximum of 5 characters)

- 1 In the »Preset list« menu, select the desired channel with »P+«, »P-«, »◀« or »▶«.

- 2 Highlight the channel with »?« (blue).

- 3 Select letters or numbers with »P+« or »P-«, move to the next position with »◀« or »▶« and repeat.

- 4 Store the channel name with »?« (blue).

Note:

To enter additional channel names, repeat steps 1 to 4.

Skipping television channels

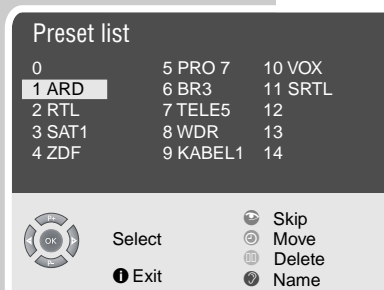
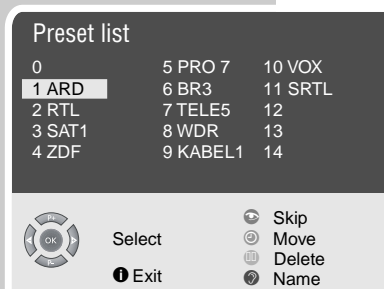
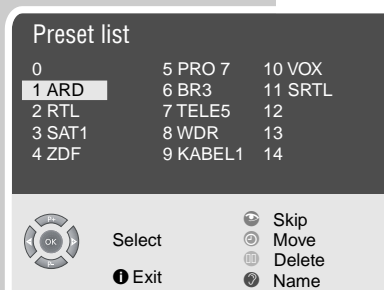
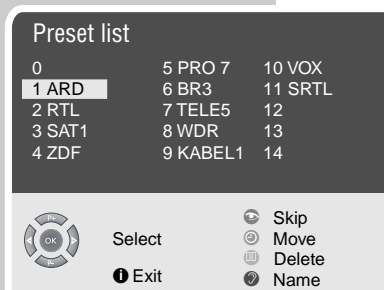
You can mark television channels which should be skipped during selection with »P+« or »P-«. A selection with the number keys is also possible.

- 1 In the »Preset list« menu, select the desired channel with »P+«, »P-«, »◀« or »▶«.

- 2 Highlight the channel with »👁« (red).
– The television channel is now displayed against a red background.
– You can deselect the selected channel by pressing the red button again.

Concluding the settings

- 1 Press »i« to finish the settings.



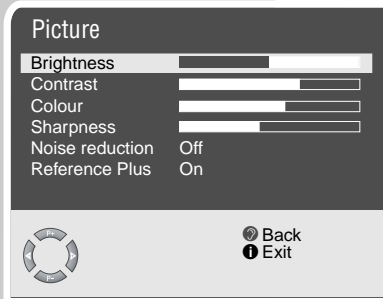
SETTINGS

Picture settings

- 1 Press »i« to open the »MAIN MENU«.
– The »MAIN MENU« appears.
- 2 Select »Picture« with »P+« or »P-« and confirm with »OK«.
– The »Picture« menu appears.

Note:

Further operation is explained in the following sections.

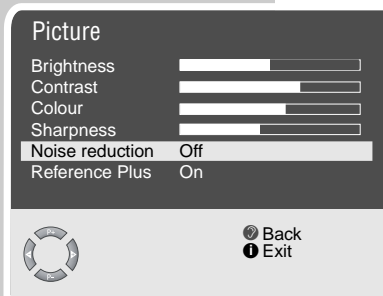


Picture settings

- 1 Select »Brightness«, »Contrast«, »Colour« or »Sharpness« with »P+« or »P-« and adjust them with »◀« or »▶«.

Note:

After a short while the »Picture« menu reappears.
The settings are saved as the »User« picture default setting.



Setting the picture features

You can set the noise suppression of the picture.

You can set the noise suppression to one of four settings: »Low«, »Medium«, »High« and »Off«.

- 1 Select »Noise Reduction« with »P+« or »P-« and set the desired value with »◀« or »▶«.

Reference Plus

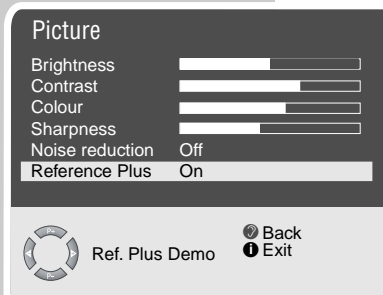
The Reference Plus technology combines high resolution and natural movements. Intelligent signal processing is used to prevent distortions.

- 1 Select »Reference Plus« with »P+« or »P-« and select the desired setting with »◀« or »▶«.

Note:

By pressing »OK« you can switch the »Reference Plus Demo« function on or off.

The left half of the screen shows the programme with the »Reference Plus« function switched on, on the right side the function is switched off.

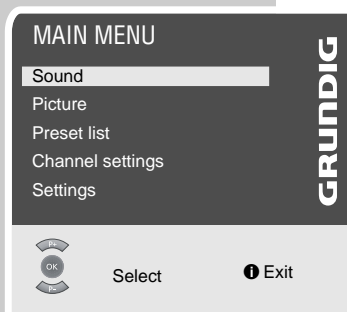


Concluding the settings

- 1 Press »i« to finish the settings.

SETTINGS

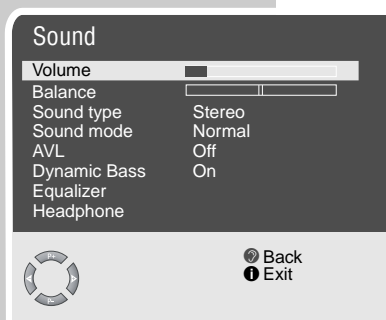
Audio settings



- 1 Press »i« to open the »MENU«.
– The »MENU« appears.
- 2 Select »Sound« with »P+« or »P-« and confirm with »OK«.
– The »Sound« menu appears.

Note:

Further operation is explained in the following sections.



Volume

The standard volume is set here. This is the volume of the device after switching on.

- 1 Select »Volume« with »P+« or »P-« and adjust the setting with »◀« or »▶«.

Balance

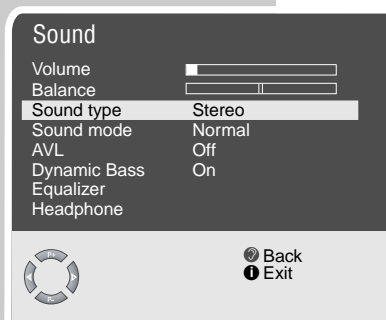
- 1 Select »Balance« with »P+« or »P-« and adjust the setting with »◀« or »▶«.

Stereo / two channel, mono

If the device receives two channel programmes, e.g. a film with the original sound on sound channel B (display: »Dual II «) and the dubbed version on sound channel A (display: »Dual I«), you can select the sound channel you desire.

If the device receives stereo or Nicam programmes, it switches automatically to stereo sound (display: »Stereo«).

You can switch the sound to »Mono« if the stereo reception quality is poor.



- 1 Select »Sound type« with »P+« or »P-« and adjust the setting with »◀« or »▶«.

Stereo width

Widens the audio output for stereo programmes and improves the sound with mono reception.

- 1 Select »Sound mode« with »P+« or »P-«.
- 2 Press »◀« or »▶« to select the setting.

SETTINGS

Automatic volume

The television channels broadcast at different volumes. The automatic volume limiting (AVL) function means the volume is kept the same when you switch between channels.

- 1 Select »AVL« with »P+« or »P-« and then select »On« with »◀« or »▶«.



Dynamic bass

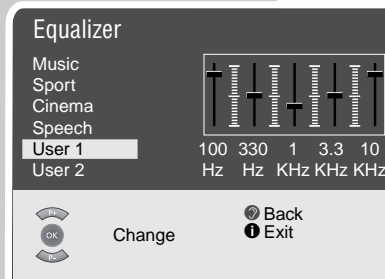
You can amplify the bass-effect using this setting.

- 1 Select »Dynamic Bass« with »P+« or »P-« and then select »On« with »◀« or »▶«.

Equalizer

The equalizer offers you four preset sound settings (Music, Sports, Cinema and Speech) and two which you can create yourself (User 1 and User 2).

- 1 Select »Equalizer« by pressing »P+« or »P-« and press »OK« to confirm.
– The »Equalizer« menu appears.
- 2 Select the »User 1« or »User 2« audio setting using »P+« or »P-« and press »OK« to confirm.
– The »100 Hz« frequency band is activated.
- 3 Set the value using »P+« or »P-« and select the next frequency band by pressing »◀« or »▶«.
- 4 Press »OK« to save the setting.



Concluding the settings

- 1 Press »i« to finish the settings.

TELEVISION OPERATION

Basic functions



Switching on and off

- 1 Switch on the television by pressing the »**⏻**« button on the television set.
– The device switches to standby mode.
Switch the television on with »**1...0**« or »**P+**« or »**P-**«.
- 2 Press the »**⏻**« button to switch the television to standby mode.
Press »**1...0**« or »**P+**« or »**P-**« to switch on the device from standby mode.
– After switching on, the station preset of the TV Guide provider is automatically selected. After a short time, the information about the current and upcoming broadcast is displayed.
- 3 Completely switch the television off by pressing »**⏻**« on the television set.
– This saves electricity.

Selecting channels

- 1 Enter single-digit or multi-digit preset channel numbers by pressing »**1 ... 0**« on the remote control.
- 2 Press »**P+**« or »**P-**« to move up and down channels.

Selecting AV channel positions

- 1 Use »**AV**« to select AV channels directly.

Adjusting the volume

- 1 Adjust the volume with »**◀**« or »**▶**«.

Muting

- 1 Use »**🔇**« to switch the sound off (mute) and to switch it on again.

Call up TV Guide and time.

After switching the station presets, information about the current broadcast is displayed (TV Guide).


- 1 Call up information about the current and next broadcast by pressing »**TV-G**«.
– The information and the time are briefly displayed.

Note:


If the message »No info« is displayed, switch to the channel preset of the TV Guide provider by pressing »**1...0**« or »**P+**« or »**P-**«. After a few minutes the new data will have been loaded.

TELEVISION OPERATION

Picture settings


- 1 Select the desired picture setting from »User«, »Natural«, »Rich« or »Soft« with »«. – You can alter the »User« picture setting, see the "Picture settings" chapter on page 10.

Audio settings

- 1 Press »« to select the audio setting »User 1«, »User 2«, »Music«, »Sports«, »Cinema« or »Speech«. – You can alter the »User 1« and »User 2« audio setting – see the "equalizer" chapter on page 12.

Changing the picture format

The television automatically switches to the 16:9 format, if this format is recognised by the Euro-AV socket.

- 1 Select the picture format with »«. The selected picture format, for example »16:9«, appears on the screen.

Zap function

This function allows you to save the television channel which you are currently watching and switch to other channels (zapping).

- 1 Select the channel you want to save in the zap memory with »1...0« or »P+« »P-«, (e.g. channel 1, BBC 1) and save by pressing »Z«. – The display »z -> P1 BBC1« appears in the screen.
- 2 Change channels with »1...0« or »P+« »P-«.
- 3 You can now use »Z« to switch between the saved channel (in the example, BBC1) and the channel you were watching before.
- 4 Press »i« to quit the zap function. – The display disappears.

TELETEXT MODE

TOP text or FLOF text mode

Your television has a teletext memory for 1024 pages.

- 1 Press »**TEXT**« to switch to teletext mode.
- 2 You can directly select teletext pages with »**1...0**«. Return to the overview page 100 with »**i**«.

Note:

At the bottom of the screen, you will see an information line consisting of a red, green and, depending on the station, yellow and blue text field. Your remote control has buttons with the corresponding colours.

- 3 Press »**⏮**« (red) to scroll back a page.
- 4 Press »**⏭**« (green) to scroll to the next page.
- 5 Press »**⏮**« (yellow) to select chapters.
- 6 Press »**⏭**« (blue) to select topics.
- 7 Press »**TEXT**« to switch off teletext mode.

Normal text mode

- 1 Press »**TEXT**« to switch to teletext mode.
- 2 You can directly select teletext pages with »**1...0**«. Return to the overview page 100 with »**i**«.
- 3 Press »**P-**« to scroll back a page.
- 4 Press »**P+**« to scroll to the next page.
- 5 Press »**TEXT**« to switch off teletext mode.

Additional functions

Overriding wait time

- 1 Press »**P-**«.
 - The television returns to television mode, the teletext page numbers are displayed in the upper left corner of the screen.
- 2 Enter the teletext page number with »**1...0**«.
 - The page number appears in red, when the page is found it changes to green.
- 3 Switch to the teletext page by pressing »**P-**«.



TELETEXT MODE





Increasing character size

If you have difficulty reading the text on the screen, you can double the character size.

- 1 To enlarge the character size of a teletext page, press »**AV**« repeatedly.



Page stop

A multiple page may contain several sub-pages, which are automatically scrolled by the transmitting station.

- 1 Stop the sub-pages with »«.
- 2 Press »« to quit the function.

Calling up a sub-page directly

If the selected teletext page contains further pages, the number of the current sub-page as well as the total number of pages is displayed.

- 1 Call up the sub-pages with »**S**«.
- 2 Select the sub-pages with »« (red) or »« (green).
- 3 End this sub-page function with »**S**«.

Reveal answer

Certain teletext pages contain "hidden answers" or information which can be called up.

- 1 Display information with »**?**«.
- 2 Conceal information with »**?**«.

Double window

With this function the television programme and teletext are displayed at the same time.

- 1 Press »**PAT**«.
 - On the left you can see the television programme, on the right the teletext of the programme.
- 2 Press »**PAT**« to quit the function.

CONVENIENCE FUNCTIONS



Freeze-frame

If you wish to view a particular scene for longer, you can freeze the current programme.

- 1 Press »**PAUSE**«.
- 2 Press »**PAUSE**« again to end this function.

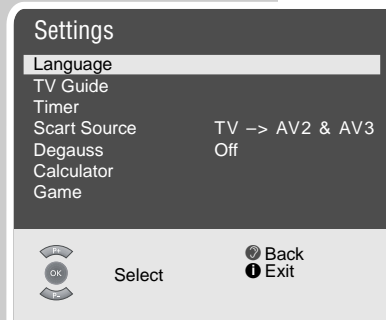
Channel scan

You can display 16 channels as freeze-frames with this function.

- 1 Press »**SCAN**« to start the channel scan.
 - The television programme, which you are currently watching, and the programmes of the following 15 channels are scanned in intervals and displayed on the screen in succession.
- 2 If you wish to select a specific programme from those on offer, click on »**OK**« while the programme is displayed.
- 3 Press »**SCAN**« to end the channel scan.

CONVENIENCE FUNCTIONS

Convenience functions with the »Settings« menu



- 1 Press »i« to open the »MAIN MENU«.
- 2 Select »Settings« with »P+« or »P-« and confirm with »OK«.
– The »Settings« menu appears.

Note:

Further operation is explained in the following sections.

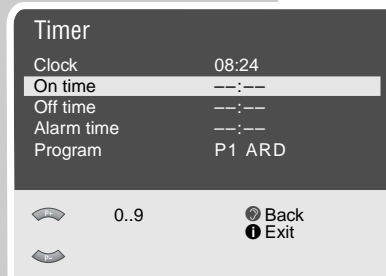
Changing the menu language



- 1 Select »Language« with »P+« or »P-« and confirm with »OK«.
– The »Language« menu appears.
- 2 Select the language with »P+«, »P-« and press »OK« to confirm.
- 3 Press »i« to finish the setting.

Entering the switch-on and off times

A switch-on and off timer can be set in the »Timer« menu. After this time has elapsed, the television switches to standby mode or switches on from standby mode. You can enter the channel with which the television should switch on in »Program«.



- 1 Select »Timer« with »P+« or »P-« and confirm with »OK«.
- 2 Select »Clock«, »On time«, »Off time«, »Alarm time« or »Program« with »P+« or »P-«.
- 3 Enter the switch-on or off time and the channel with »1...0«.
- 4 Press »i« to finish the setting.

Switching on the degaussing function

If your television has not been connected to a power supply for a longer period of time, clouding may occur due to strong magnetic fields. You can avoid this by briefly switching on the degaussing.

- 1 Select »Degauss« with »P+« or »P-« and then select »ON« with »◀« or »▶«.
– The screen is degaussed for a short period of time.
- 2 Press »i« to finish the setting.

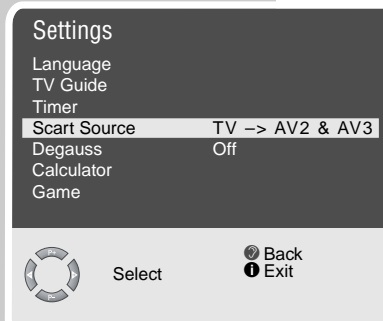
CONVENIENCE FUNCTIONS

Selecting the Euro-AV (Scart) output

You can select which signal should be output at the Euro-AV sockets AV 2 and AV 3.

You have the following options:

- The channel, which you are currently viewing (TV → AV2 and AV3).
- The channel which has been selected last (TUNER1 → AV2 and AV3).
- The signal of the devices, which are connected to the AV inputs (AV1, AV2, AV3, AV3-S, AV4, AV4-S → AV2 and AV3).



- 1 Select »Scart Source« with »P+« or »P-«.
- 2 Press »◀« or »▶« to select the option.
- 3 Press »i« to finish the setting.

TV Guide

TV Guide provides you with information about the current and the next broadcast.

Who offers TV Guide?

Certain stations – Kabel 1, for example – offer this service for almost all TV programs.

How TV Guide works

The station information is »loaded« once you have selected the pre-set for the programme provider.

Transferring all information to the television is somewhat time-consuming, but you can call up the most current information in just a few minutes.

Notes:

Operation with a satellite receiver is not possible with TV Guide.

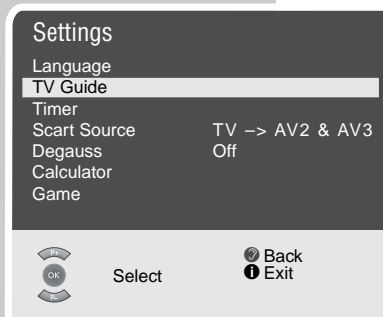
If you change the station position during the time the device uses for data transfer, it is possible that not all information will be loaded.

TV Guide settings

- 1 Call up the »MAIN MENU« by pressing »i«.
- 2 Select the line »Settings« and confirm by pressing »OK«.
- 3 Select the line »TV Guide« by pressing »P+« or »P-« and confirm by pressing »OK«.

Note:

Additional operations are explained in the following sections.



CONVENIENCE FUNCTIONS

Changing stations

Check to see which television programme (provider) offers service for TV Guide.

- 1 Select »Provider« by pressing »P+« or »P-«.
- 2 Select the television station (provider) by pressing »◀« or »▶« and confirm by pressing »OK«.
- 3 Exit settings by pressing »i«.

Switching the station, name display on/off

If you switch off the station name display, this information is not shown when switching the programme presets.

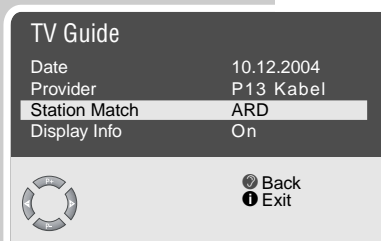
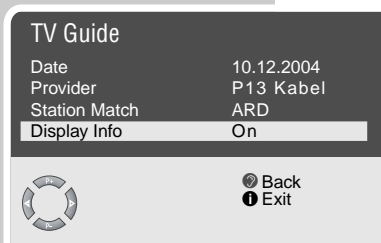
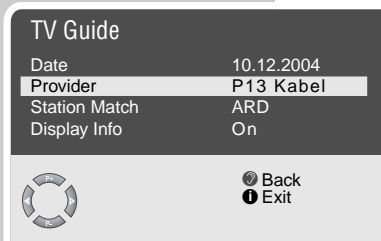
- 1 Select the line »Display Info« by pressing »P+« or »P-« and confirm by pressing »OK«.
- 2 Activate (On) or deactivate (Off) the function by pressing »◀« or »▶«.
- 3 Exit the setting by pressing »i«.

Assigning television stations (station matching)

You will need to use the station matching function if stations are not recognised by TV Guide.

In the »Station Match« line these are designated as »None«.

- 1 Select the program that you would like to assign by pressing »P+« or »P-«.
- 2 Call up the »MAIN MENU« by pressing »i«.
- 3 Select the line »Settings« and confirm by pressing »OK«.
- 4 Select the line »TV Guide« by pressing »P+« or »P-« and confirm by pressing »OK«.
- 5 Select the line »Station Match« by pressing »P+« or »P-«.
- 6 Select the station ID for the selected television station by pressing »◀« or »▶« .
- If the station ID is not available at the selection, the station is not supported by the provider.
- 7 Exit the setting by pressing »i«.

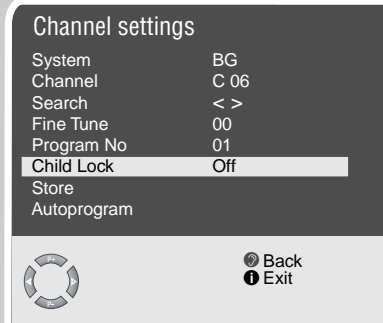


PARENTAL LOCK

Activating the parental lock

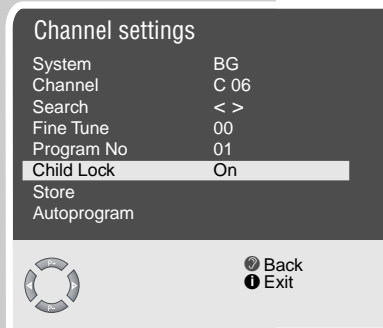
You can block programmes which are unsuitable for children.

- 1 Select the television channel with »P+«, »P-« or »1...0«.
- 2 To open the »MAIN MENU« press »i«.
- 3 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
- 4 Select »Child Lock« with »P+« or »P-« and confirm with »OK«.
- 5 Activate the parental lock with »◀« or »▶«.
- 6 Press »i« to finish the setting.
– The selected channel position is now blocked.



Deactivating the parental lock

- 1 Select the blocked television channel with »1...0«.
- 2 To open the »MAIN MENU« press »i«.
- 3 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
- 4 Select »Child Lock« with »P+« or »P-« and confirm with »OK«.
- 5 Switch off the parental lock with »◀« or »▶«.
- 6 Press »i« to finish the setting.



USING EXTERNAL DEVICES

Note:

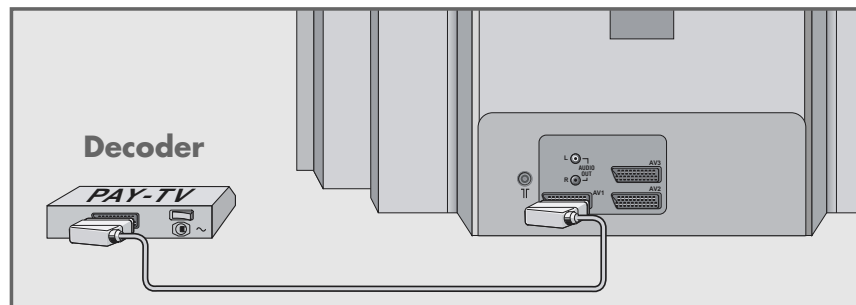
Do not connect any other equipment while the device is switched on. Switch off the other equipment as well before connecting it.

Only plug the device into the mains socket after you have connected the external devices and the antenna.

Decoder or satellite receiver

In order for the television to receive encoded programs from a privately operated station, a decoder is needed.

Connecting a decoder or satellite receiver



- 1 Connect the »AV1« socket on the television set and the appropriate socket on the decoder using a EURO-AV cable.

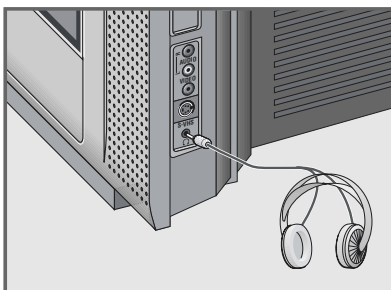
Notes:

A satellite receiver can also be connected to this socket.

If you want to use both a satellite receiver and a decoder, the decoder must be connected to the satellite receiver.

Using a decoder

- 1 Switch on the television and the decoder.
- 2 Select the »AV1« preset channel by pressing »AV« repeatedly until »AV1« appears on the screen.



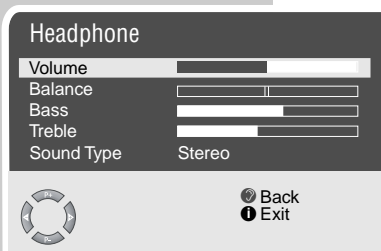
Headphones

Connecting headphones

- 1 Insert the headphone jack (3.5 mm ø jack plug) in the headphone socket on the television.

Selecting the sound settings for the headphones

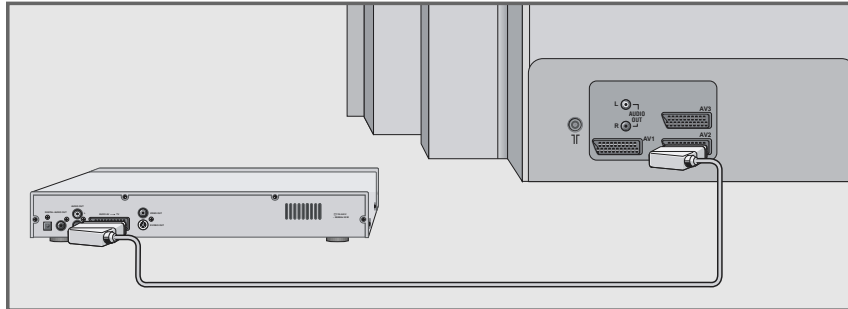
- 1 Press »i« to open the »MAIN MENU«.
- 2 Select »Sound« with »P+« or »P-« and confirm with »OK«.
- 3 Select »Headphone« with »P+« or »P-« and confirm with »OK«.
- 4 Select »Volume«, »Balance«, »Bass«, »Treble« or »Sound Type« with »P+« or »P-« and set with »◀« or »▶«.
- 5 Press »i« to finish the setting.



USING EXTERNAL DEVICES

Video recorder, DVD player or SET-TOP box

Connecting the video recorder, DVD player or SET-TOP box



- 1 Connect the »AV1«, »AV2« or »AV3« television sockets and the corresponding sockets of the video recorder, DVD player or the SET-TOP box with a Euro-AV (Scart) cable.

Using a video recorder, DVD player or SET-TOP box

- 1 Switch on the video recorder, DVD player or SET-TOP box and select the function you wish to use.
- 2 Select the »AV1«, »AV2« or »AV3« channel positions with »AV«.
 - You can hear and see the video and audio information from the video recorder or the SET-TOP box on the television set.

Notes:

You can connect an external RGB device (DVD player) to the Euro-AV1 socket. However, you will need to use a fully assigned Euro-AV cable for this.

You can copy recordings using the television from one external device to another, by connecting the playback device to Euro-AV1 and the recording device to Euro-AV2 and then selecting the »AV1« preset channel. However, you will not be able to view a television channel.

Connecting the SVHS video recorder

If you own a SVHS video recorder, you can connect it using a Euro-AV cable to the AV3 socket.

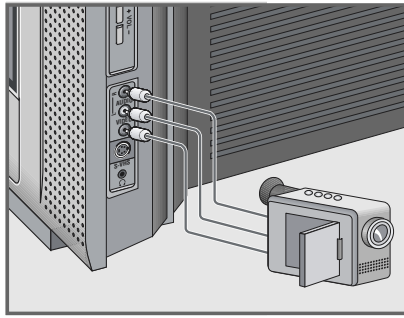
Using a SVHS video recorder

- 1 Switch on the video recorder and select the function you wish to use.
- 2 Select the »AV3-S« preset channel with »AV«.
 - You will see the picture and hear the sound of the video recorder on the television.

USING EXTERNAL DEVICES

Camcorder

Connecting the camcorder



- 1 Connect the yellow socket (VIDEO – picture signal) on the television and the corresponding socket on the camcorder (VHS, Video 8) with a cinch cable.

or

Connect the S-VHS socket (S-VIDEO – picture signal) on the television and the corresponding socket on the camcorder (S-VHS, Hi 8) with a cinch cable.

- 2 Connect the white and red sockets (L AUDIO R – sound signal) on the television and the corresponding sockets of the camcorder with a cinch cable.

Note:

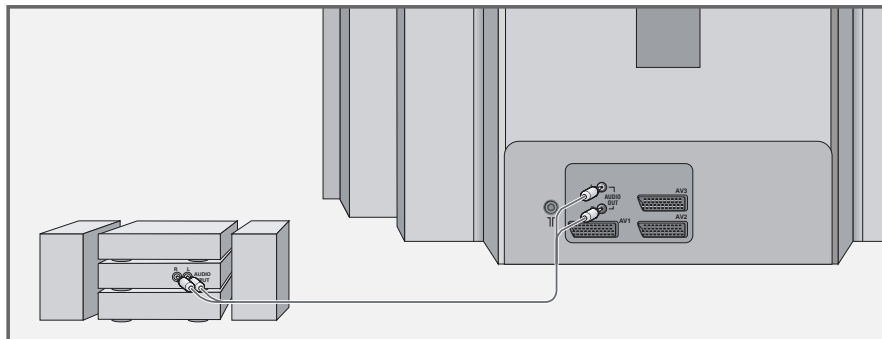
If a mono camera is connected, connect the white socket (L) of the television and the corresponding socket of the camera. Select »Mono« in the »Sound« menu during mono operation.

Operating with a camcorder

- 1 Switch on the camcorder, insert a cassette and start playback.
- 2 Select the preset channel »AV4« (for VHS, Video 8) or »AV4-S« (for S-VHS, Hi 8), by pressing »AV« repeatedly until »AV4« or »AV4-S« appears in the screen.
 - You will see the picture and hear the sound of the camcorder on the television.

HiFi system

Connecting the HiFi system



- 1 Connect the white and red sockets »L R AUDIO OUT« on the television and the corresponding sockets on the HiFi with a cinch cable.

SPECIAL SETTINGS

Setting television channels

This setting is only necessary if a new channel comes on air and you do not want to change the order of your channels. The television channel can be set directly or using the search.

Setting channels using the search

- 1 Press »i« to open the »MAIN MENU«.
– The »MAIN MENU« appears.
- 2 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
– The »Channel settings« menu appears.
- 3 Select »Program No« with »P+« or »P-« and set the preset channel with »◀« or »▶«.
- 4 Select »Search« with »P+« or »P-« and start the search with »◀« or »▶«.
– If a strong station signal is received, the search is interrupted and the picture appears. Repeat the search until the channel you want appears on the screen.

Note:

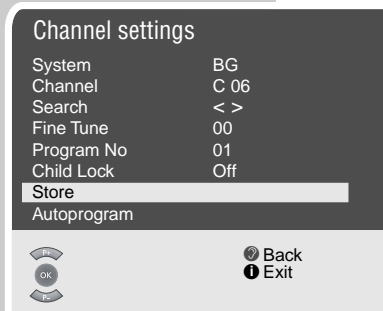
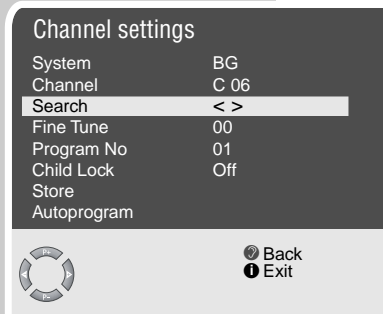
The current system is automatically displayed in the »System« line. Select »System« with »P+« or »P-« if the colour or sound are incorrect. Select the setting required with »◀« or »▶«.

- 5 Select »Store« with »P+« or »P-« and confirm with »OK«.
– The »Stored« message appears.

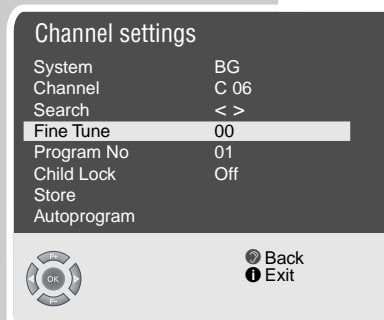
Note:

To set other television stations, repeat steps 3 to 5.

- 6 Press »i« to finish the setting.



SPECIAL SETTINGS



Fine tuning television channels

The television automatically tunes itself to the best possible reception. You may need to carry out manual fine tuning in areas where there is poor reception.

- 1 Press »i« to open the »MAIN MENU«.
– The »MAIN MENU« appears.
- 2 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
– The »Channel settings« menu appears.
- 3 Select »Fine Tune« with »P+« or »P-« and set it with »◀« or »▶«.
- 4 Select »Store« with »P+« or »P-« and confirm with »OK«.
– The »Stored« message appears.
- 5 Press »i« to finish the setting.

Setting the television channels by entering the channel numbers

- 1 Press »i« to open the »MAIN MENU«.
– The »MAIN MENU« appears.
- 2 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
– The »Channel settings« menu appears.
- 3 Select »Program No« with »P+« or »P-« and set the channel with »◀« or »▶«.
- 4 Select »Channel« with »P+« or »P-« and confirm with »OK«.
- 5 Press »OK« to choose between »S« (special channel) and »C« (channel).
- 6 Press »◀« or »▶« to switch up and down channels or use »1...0« to enter the channel number directly.

Note:

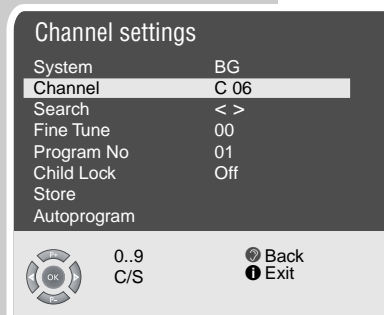
The current system is automatically displayed in the »System« line. Select »System« with »P+« or »P-« if the colour or sound are incorrect. Select the setting required with »◀« or »▶«.

- 7 Select »Store« with »P+« or »P-« and confirm with »OK«.

Note:

To set other television stations, repeat steps 3 to 7.

- 8 Press »i« to finish the setting.



SPECIAL SETTINGS

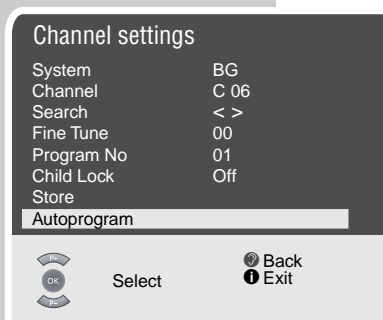
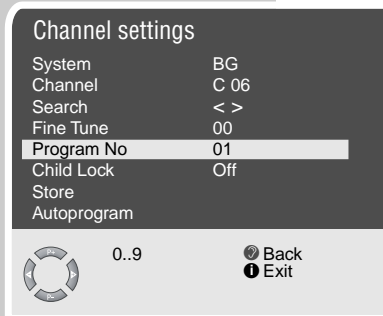
Re-tuning all television channels

You can re-tune all the television stations, for example if you move to another town.

- 1 Press »i« to open the »MAIN MENU«.
– The »MAIN MENU« appears.
- 2 Select »Channel settings« with »P+« or »P-« and confirm with »OK«.
– The »Channel settings« menu appears.
- 3 Select »Program No« with »P+« or »P-« and using »◀« or »▶« enter the channel numbers from the point they should be saved.
- 4 Select »Autoprogram« with »P+« or »P-« and confirm with »OK«.
– The »Country Selection« menu appears.
- 5 Select the country using »P+«, »P-«, »◀« or »▶« and confirm with »OK«.
– The automatic search may last a few minutes, depending on the number of television channels received.

Note:

You can interrupt the search by pressing »i«.



INFORMATION

Technical data

Mains voltage:	230 V, 50/60 Hz
Power consumption:	In standby mode 4 W Switched on 97 W
Sound output:	2x25 Watts music
Reception ranges:	C01 ... C99, special channels S01 ... S41, frequency band 1 ... 4
Channel positions:	100 und 5 AV



Service information for dealers:

The product complies with the following EU directives:
73/23/EEC directive for electrical equipment to be used within defined voltage ranges. 89/336/EEC directive on electromagnetic compatibility.

The television set complies with the following standards: EN 60065, EN 55013, EN 55020

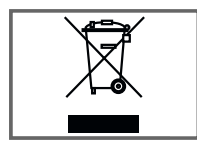
Environmental note

This product has been made from high-quality parts and materials which can be re-used and recycled.

Therefore, do not throw the product away with normal household waste at the end of its life. Take it to a collection point for recycling electrical and electronic devices. This is indicated by this symbol on the product, in the operating manual and on the packaging.

Please find out about collection points operated by your local authority.

Help protect the environment by recycling used products.



INFORMATION

Troubleshooting

If the remedies given below do not work, please consult an authorised GRUNDIG dealer. Please bear in mind that malfunctions can also be caused by external devices such as video recorders or satellite receivers.

Fault	Possible cause	Remedy
Screen lit (snow), but no station	Antenna cable	Is the antenna cable connected?
	No television station programmed	Start the station search
Poor picture contrast	Picture settings incorrectly set	Adjust the brightness, contrast or colour setting
	Problem at station	Test with another channel
Interference to picture and/or sound	Interference from other devices	Change the position of the device
Ghosts, reflection	Channel setting	Automatic or manual channel setting/fine tuning
	Antenna	Have antenna cable or system checked
No colour	Colour intensity at minimum	Turn up the colour
	TV standard setting (if setting option is available)	Select the correct colour standard
	Problem at station	Test with another channel
Inappropriate colour, colour spots	Strong magnetic field due, for example, to loudspeakers	Move the loudspeakers away from the television. If colour spots remain, switch off the television set at the mains and switch on again after 10 minutes
Picture but no sound	Volume set to minimum	Turn up or switch on the volume
	Problem at station	Test with another channel
Teletext missing or faulty	Television station (has no teletext) or antenna system	Test another channel for fine tuning and ghosts
	Station signal too weak	Check the antenna system
Remote control does not work	No optical connection	Point the remote control at the television set
	Remote control batteries	Check the batteries, change if necessary
	Operating condition undefined	Switch off the television with the main power button for approximately 2 minutes
The picture is unrecognisable after switching on the television	Parental lock has been activated	Switch off the parental lock

Additional Information for units sold in the UK.

Units sold in the UK are suitable for operation from a 240V ac, 50Hz mains supply.

The range of multi-system receivers is built to work in most European countries. However, the mains plug and socket system for the UK differs from many European countries.

This appliance has been supplied with a fitted, non-removable, approved converter plug for use in the UK. This converter plug is fitted with a 5A rated fuse.

In case this appliance is supplied with a moulded 2-pin Euro plug only, which is unsuitable for UK operation, this must be cut off and immediately disposed of. An approved 13A, 3-pin UK plug should then be fitted by a qualified electrician.

Note:

The severed Euro plug must be destroyed to avoid a possible shock hazard should it be inserted into a socket elsewhere.

If a non-rewireable 3-pin plug or a rewireable 13A (BS1363) 3-pin plug is used, it must be fitted with a 5A ASTA or BSI approved BS1362 fuse. If any other type of plug is used it must be protected by a 5A fuse either in the plug, or at the distribution board. If this type of plug becomes defective, ensure that the fuse is removed before disposal, to eliminate potential shock hazard.

If it is necessary to change the fuse in the non-rewireable plug, the correct type and rating (5A ASTA or BSI approved BS1362) must be used and the fuse cover must be refitted. If the fuse cover is lost or damaged, the lead and plug must not be used until a replacement is obtained. Replacement fuse covers should be obtained from your dealer.

Important:

The wires in the mains lead are colour coded in accordance with the following code:


BLUE – NEUTRAL

BROWN – LIVE

As the colours of the wires in the mains lead of your appliance may not correspond with the coloured marking identifying terminals in your plug, proceed as follows:

Connect the BLUE coloured wire to plug terminal marked with the letter "N" or coloured black.

Connect the BROWN coloured wire to the plug terminal marked with the letter "L" or coloured red.

In no circumstance must any of the wires be connected to the terminal marked with the letter "E", earth symbol , coloured green, or green & yellow.

