HOME ENTERTAINMENT

Operating instructions for all LCD-TV HD-sets

Bild und Ton
AV Geräte
Sendertabelle
Timer
Konfiguration

LCD-TV

HD ready

07/28/09

606 47 2049.A1   Metz - always first class.

Foreword

Dear customer,

thank you for selecting a Metz LCD TV set.

We have equipped this TV set with a menu system which uses "file cards" and believe that this will provide you with a user interface that is easy to understand.

If you have any problems, you can press the "INFO" key to display a help function that will assist you in setting up your TV set.

However, you should read at least sections 1 to 8 of the Operating Instructions before putting your new TV set into service.

This LCD TV is HD-ready and supports HDTV broadcasts.
$\underline{HD}_{\mathrm{ready}}$ The HD ready Logo is a Trademark of EICTA.

Your METZ-WERKE

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Configuration

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1. Installation

- Take care that no bright artificial light or sunshine falls directly on the screen. This could cause reflections which have a negative effect on the brilliance of the picture.

- The best viewing distance is five times the screen diagonal, i.e.
  - Approximately 3.3 m (11 ft) for 26" screens
  - Approximately 4 m (13 ft) for 32" screens
  - Approximately 4.7 m (15 ft) for 37" screens

- The antenna cable and any other components (such as a video recorder) connected between the antenna socket in the wall and the TV set must comply with the European standard EN 60966-2-4.

- The antenna cable used for connecting the TV set must have a screening attenuation of at least 75 dB.

- The use of non-approved cables will invalidate the operating permission for the TV set.

- For details of how to connect peripheral devices such as video recorders, DVD players, etc. press the „INFO" key to call the help function, select „Connecting AV devices" with the cursor and press „OK" to display the information.

- Only use Metz bases as a stand for the LCD TV.

- Use the Metz wall bracket (item no. 604 99 0286.A1) or a suitable OmniMount wall bracket to hang the LCD TV on the wall. For an OmniMount wall bracket, you also need the Metz adapter plate 013ZM1091.

2. Safety notes

- Always place the monitor on a solid, stable surface.

- If a cold TV set is moved to a warm room, always allow any condensation on the screen to evaporate before switching it on.

- The TV set is intended for use in a dry room. If, in exceptional circumstances, you use it outdoors, take care that is protected against moisture (rain, splashed water, dew).

- TV sets need adequate ventilation. Never cover the openings on the rear of the set with curtains, doilies, newspapers, etc. Also take care that the slits in the bottom of the case are freely accessible so that the intake of the cooling air is not hindered.

- If you place the TV set in a wall unit, leave sufficient space on all sides for the circulation of cooling air.

- Do not place the TV set close to a radiator, since this would effect adequate cooling.

- Do not place
  - burning candles or
  vessels containing liquids (vases, etc.) on top of the TV set, since any hot wax or water dripping into the set could cause serious damage to the electronic components and could also jeopardize the electrical safety of the set.

- Lightning can damage electrical equipment. A lightning flash entering the power cable or the aerial cable can damage the TV set even if it is switched off. You should therefore disconnect the power cable and aerial cable from their outlets or from the TV set in the case of a thunderstorm.

- The monitor may be opened and repaired only by a qualified person.

CAUTION! HIGH VOLTAGES CAN KILL !

If repairs should be necessary, consult your local dealer.

- Always switch off the TV set before cleaning it.

- Do not hold the remote control directly in front of your eyes and press a button. The remote control emits infrared radiation!

- Do not place rechargeable batteries in the battery compartment of the remote control. Use only two 1.5 V dry batteries of the type LR03/AM4/AAA (Micro).

- The TV set is intended only for the reception and reproduction of picture and sound signals.

- The TV set may be operated only from a mains voltage of 230-240V VAC, 50 Hz. Australia: 240 VAC.

- For maintenance and repair work, the power plug or the power-cord input of the TV represents a means to disconnect the device from the mains and must therefore be kept in a usable state in line with applicable standards.

- Lay the power cable so that nothing stands on it and no-one can trip over it.

- Do not display still images, logos, 4:3 pictures with stripes etc. over an extended period. These still images can result in marks on the screen.

3. The Remote Control

The remote control sends commands to the TV set by means of an infrared signal. You must point it towards the TV set when using it. Note that the remote control may interfere with the operation of other devices which use infrared signals (such as infrared headphones).

Sunlight falling directly on the TV set may interfere with the operation of the remote control, since the TV set cannot detect the infrared signals from the remote control under these conditions. The TV set must be switched on with the main power switch before it can be controlled with the remote control.

The most important keys for normal use

❶ ON
Switches the TV set on with programme position 1 or the programmed initial programme position selected, or switches it OFF (to the standby state).

❹ Numeric keys (direct station selection).

❺ P+ /P- Selects the next/previous programme position.

❽ Volume control.
Setting can be changed in the menu.

⓯ Back to the previously selected station.

⓱ Displays the station table.

⚠ **Do not insert rechargeable batteries in the battery compartment of the remote control.**

Use only two dry batteries of the type LR03/ AM4/AAA 1.5V.

3. The Remote Control

Overview of the functions of the keys

② Switch to DVB radio mode.
Switch on from the standby state into radio mode[1].

③ Function keys:
F1/F2/F3: **press briefly** to call the functions set in the factory.
F1/F2/F3: **press and hold** to display a selection of special functions.
AV: press to select one of the previously configured AV devices.

⑥ Cursor control key in the "Information" window and the "TV menu".

⑦ OK: confirmation key.

❽ Volume control; values can be set in the TV menu.

⑨ Exit key: exit from the menu without saving any changes you have made.

⑩ Open the TV menu.
In the menu: back to the main menu.

⑪ Open the electronic programme guide (EPG).

⑫ Open the Teletext window.

⑬ Mute.

⑭ Freeze frame.

❺ Back to the previously selected station.
In the TV menu: open the "Configuration" menu.

⑯ Display the date and time.
In the TV menu: open the "Timer" window.

❼ Display the station table.
In the TV menu: open the station table or the station features window.

⑱ Display the sound functions.
In the TV menu: open the "AV devices" window.

⑲ Display the picture functions.
In the TV menu: open the "picture and sound" window.

⑳ Back to the TV picture.
Switch from radio mode[1] to TV mode.
Switch on from standby mode into TV mode.
Split-Screen in Teletext

㉑ Display the AV menu "Replay/record".
Switch on from standby mode into AV mode.

㉒ Display the "Information" window. In the "Information" window:
back to the table of contents.

1) Possible only in DVB mode !

4. Daily Operation

Switching on

Switch on the TV set with the main switch.

The TV set is now in standby mode and the red standby indicator lights.

After about five seconds, the TV set switches to programme position 1 or to the programmed initial programme position.

If you press no further keys on the remote control, a window requesting that you do so is displayed after about 10 minutes. If you do not do this, the TV set switches back to the standby state.

Use the numeric keys to select any desired programme position. Pressing the ⏻ key selects programme position 1 or, if it is programmed, the initial programme position (see page 71).

Switching off

Press the ⏻ key to switch the TV set to standby mode. If you do not intend to use the TV set for a longer period, switch it off with the main power switch.

Adjusting the volume

The volume can be adjusted with the **-** **+** key.

Adjusting the picture and sound settings

Call the picture settings with the blue key ◉ or the sound settings with the yellow key ♫. The setting box with the various functions is then displayed at the bottom left of the screen. Use the rocker key "**P+/P-**" to select the desired function and then use the **-** **+** key to adjust the setting.

5. Selecting the Operating Mode

You can switch the TV set between its various operating modes with the keys "TV", "AV" and "R". You can also switch from standby mode to the desired operating mode with these keys.

TV = TV mode

AV = TV mode with input from AV devices (e.g. video tape recorder, DVD player, etc.)

R = DVB Radio mode [1]

| TV | AV | R |

1) Possible only in DVB mode !

Station selection and management of programme positions

The TV set can store the settings for up to 2000 TV stations and 2000 radio stations in so-called programme positions. You can select any of these programme positions with the numeric keys, with the oval rocker key "**P+/P-**" or from the station table.

If you use the numeric keys for station selection, the first digit you enter is nor-

mally the "thousands" digit. If less than 1000 programme positions are occupied, it automatically becomes the "hundreds" digit.

If less than ten programme positions are occupied, the first digit you enter automatically becomes the "units" digit.

After pressing any numeric key, you have three seconds to press further numeric keys

Selecting stations from the station table

In normal TV or radio [1] mode, you can display the station table by pressing the white ⊛ key.

Press the white key ⊛ repeatedly to display a virtual keyboard. Use the respective key to sort the station list alphanumerically.
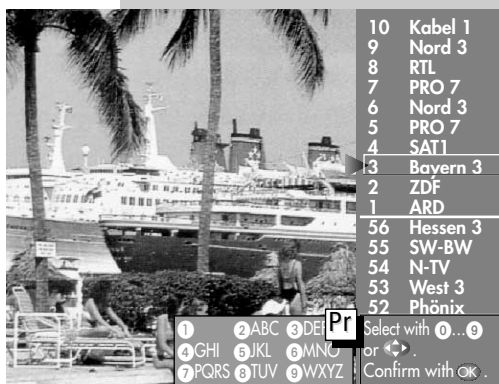
In the table which is then displayed, you can use the oval rocker key "**P+/P-**" or the numeric keys to select the desired station and then press the "**OK**" key to display this station.

If the station table contains more than 20 stations, you can display the next 10 stations by pressing the oval cursor control key ◄ ►.

Back to the last station

You can use the red ⊛ key to switch back and forth between the last two stations you have selected.

10	Kabel 1
9	Nord 3
8	RTL
7	PRO 7
6	Nord 3
5	PRO 7
4	SAT1
3	Bayern 3
2	ZDF
1	ARD
56	Hessen 3
55	SW-BW
54	N-TV
53	West 3
52	Phönix

[1] Possible only in DVB mode !

7. User Help (Information)

During the design of this TV set, we have made every effort to make it as easy a possible for you to use it and we hope that you will enjoy familiarising yourself with your new TV set.

With the "Information" menu, the TV set is able to answer the many questions which may come up during installation and setup.

INFO

To display this menu, simply press the "**INFO**" key for the table of contents.

The "Information" menu (user help)

Information
Contents

Index
Station selection
Picture settings
Sound settings
AV playback
Recording facilities:
- Timer recording
- Direct recording
- AV copying
Teletext
Function keys
DVB radio mode
Electronic Programm Guide (EPG)

Select the underlined text with the cursor.
⊙ : further information   INFO : table of contents
Visited pages: ● back   ● forward

In the table of contents or the index, you can select the item of interest with the cursor control key.

Use the cursor-right key ▶ to scroll forwards through the contents or index ...

Use the cursor-left key ◀ to scroll backwards through the contents or index ...

Use the cursor-up key ▲ to select the last underlined item ...

Use the cursor-down key ▼ to select the menu lines...

... and then press the "**OK**" key to display the explanation of the selected item.

You can select any underlined word in the table of contents, the index or the explanation of a selected item with the cursor. Pressing the "**OK**" key then displays the explanation for this word.

You can also scroll forwards and backwards through previously displayed pages with the aid of the red and green keys.

OK

With the "TV menu", we provide you with an assistant to help you find your way through the many possible settings of the TV set.

Don't be afraid to change any settings in the various menus. No changes will be saved unless you press the "**OK**" key to confirm them. If you are not sure whether you want to keep a changed setting, you can exit from the menu at any time, without saving any changes, by pressing the "**EXIT**" key.

Within the TV menu, you can return to the previous main menu item at any time by pressing the "**MENU**" key. If you are not sure what a menu item does, press the "**INFO**" key for more information.

In order to return to the menu, press the "**INFO**" key twice.

You can open each of the five main sections of the menu with the key of the corresponding colour. The "card file" which is then displayed is subdivided into Subjects (on the left) and Sections (on the right), and you can select these by moving the red, triangular cursor with the oval cursor control key or with the numeric keys.

When you press the "**OK**" key, the current setting for the selected item is shown in the "Setting window" below the card file and can be adjusted with the **- +** key.

You can save the new setting by pressing the "OK" key, which also returns you to the list of sections. If you do not want to save the new setting, press the "**MENU**" key to return to the corresponding main menu item or press the "**EXIT**" key to close the menu.

You can delete any incorrect inputs with the **II** key.

MENU

Cursor

Subject*

Section*

★ ★ ★
▶ **Picture-Volume**
● AV devices
● Station table
● Timer
● Configuration

TV-Menu

0 Factory settings
9 Motion compensation
8 Zoom/Panorama
7 Noise reduction³⁾
6 Picture sharpness
5 Colour impr.
4 Colour intensity
3 Backlight control
2 Contrast
1 Brightness

4 Sound set,.prog.posn
3 Sound settings, gen.
2 Pict.set.,prog.posn.
1 Picture settings, gen.

Open the menu
with ● ● ● ● ●
EXIT : back
to TV picture

Setting window

Related numeric keys

OK

OK

EXIT

II

* The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

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9. Teletext

TEXT

> **i** Teletext is an additional service provided free of charge by many TV stations. It is an "electronic magazine" through which you can browse in various ways.

Opening Teletext:

0	Gehörlose
9	Börse
8	Service
7	BR-Intern
6	Hörfunk
5	Fernsehen
4	Sport
3	Bayern
2	Schlagzeilen
▶	Übersicht

2	Impressum
1	A-Z

Subjects
Chapter
Pages
Next BookMark
select
mark
◀ 100 ▶

• Press the "**TEXT**" key. If the selected station offers "TOP-Text", a "card file" is displayed (see the picture on the left).
  If "TOP-Text" is not available, Teletext page 100 is displayed (see the picture below).

• In the TOP-Text card file, you can select the desired cards with the cursor control key or with the numeric keys.

• Press the "**OK**" key to open the selected card.

Controlling Teletext with pages displayed:
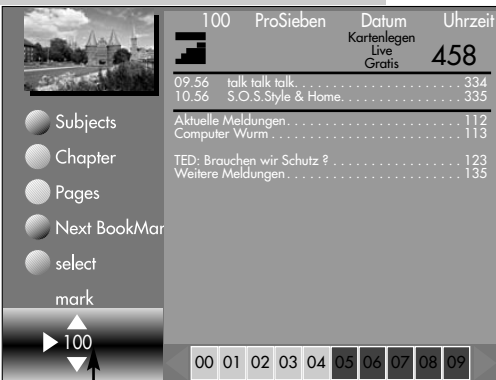
Blue key ◉ – next subject.

Yellow key ♪ – next section.

White key ℗ – next page.

After pressing the coloured pre-selection key, you can step through the subjects, sections or pages with the cursor control key or with the numeric keys.

If you wish to select a specific page, enter its page number on the numeric keys.

| 100 | ProSieben | Datum | Uhrzeit |

Kartenlegen
Live
Gratis **458**

09.56   talk talk talk. 334
10.56   S.O.S.Style & Home. 335

Aktuelle Meldungen. 112
Computer Wurm 113

TED: Brauchen wir Schutz ? 123
Weitere Meldungen. 135

Subjects
Chapter
Pages
Next BookMark
select
mark
▶ 100

00 01 02 03 04 05 06 07 08 09

Page number

Sub-pages

If sub-pages exist for the selected page, the page numbers are displayed in black. In the example shown here, there are five sub-pages.

You can step through these sub-pages with the cursor control key.

9. Teletext

Double font size

You can double the size of the font used for Teletext pages with the **F1** key. Pressing this key once displays an enlarged picture of the upper third of the page. Pressing it a second and third time displays the centre and lower thirds of the page. Pressing a fourth time displays the entire page again.

Riddle key (display hidden text)

Function key **F2** is programmed in the factory to display hidden text, such as the answers to riddles.

Back to the last index page

You can return directly to the last index page you have displayed by pressing the numeric key **0**.

Stop page scrolling

The **II** key or the "**OK**" key can be used to stop the automatic scrolling executed by some pages, and to enable this again.

Page selection with the cursor

Press the "**OK**" key to stop page scrolling. The cursor ▶ is now positioned at the top left corner of the page and you can use the cursor control key ◀ ▶ ▲ ▼ to position it anywhere on the displayed page. This function is useful on index pages (such as pages 100, 200, etc.) in order to select a page you want to see. After positioning the cursor on the desired page number, press the "**OK**" key to display its contents.

Setting marks in Teletext [6]

As a user of Teletext, you will probably want to visit certain pages (such as stock-market news, news pages or the weather forecast) regularly.

In order to find these pages quickly, you can set marks to suit your personal requirements.

To do this, open a page for which you want to set a mark.

• Press the red ⑤ key for "Set" to place a mark on this page. The number of the mark you have just set is displayed above the window containing the number of the Teletext page. In the case of multiple pages, the mark is always set and displayed for the currently displayed sub-page.

☞ **Up to 10 marks can be set for each programme position.**

Scrolling through marked Teletext pages [6]

With the Teletext window open, you can step sequentially through the marked pages with the green ⑥ key.

An even easier method is by pressing the "**TEXT**" key while the TV programme is displayed. Each time you press this key, the next marked page is displayed. After the last marked page, the TV picture is displayed again.

6) Not possible with an external receiver !

9. Teletext

Displaying all Teletext marks [6]

If you have set marks for a programme position, you can display an overview of these marks by pressing the **F3** key. The displayed list shows where the marks are set. Press **F3** again to hide the list.

You can select the individual marks in the list with the numeric keys.

Clearing Teletext marks [6]

Open the Teletext page whose mark is to be deleted and press the red ☺ key "Delete" to delete the mark.

Subtitles in Teletext

Your TV set is capable of displaying subtitles. When a programme for which subtitles exist starts, the TV station displays a box showing the Teletext page on which these can be found.

• Press the "**TEXT**" key to open Teletext.

• If this is a "TOP-Text" station, the card file is displayed. Press the "**OK**" key and open any available page.

• Use the numeric keys to enter the number of the page containing the subtitles.

Split-Screen

In Teletxt mode, the TV-Programm window in the upper left corner can be enlarged to half of your screen by pressing the „TV" button.

If you press „TV" button again, it will be used to the orginal size.

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6) Not possible with an external receiver !

10. AV Playback

Opening the menu

AV playback (devices with switching voltage)

☞ *Before they can be used, AV devices must be registered and assigned to the appropriate input sockets in the menu "AV devices".*

Playing back a recording from a video cassette, DVD, etc. on a connected AV device is called AV playback.

In order to see the picture, you must programme your TV set to execute an automatic programme change at the EURO socket to which the AV device is connected.

<u>Programming a programme change</u>

☞ *This menu item is not available in a 2 ** menu (see Section 30, Scope of Operation).*

☞ *The automatic programme change is set in the factory to "ON" for all EURO sockets.*

- Press the "**MENU**" key.
  The TV menu appears on the screen.

- Press the red key ⤺. The menu "Configuration" is displayed.

- Use the corresponding numeric key (in this example: ❼) to select the menu item "EURO sockets".

- Use the cursor control key to select "EURO 1, "EURO 2" or "EURO 3".

- Press the "**OK**" key and then, in the setting window, use the **-** **+** key to select "Programme change on".

- Press the "**OK**" key to save the new setting.
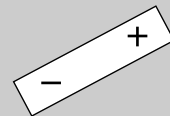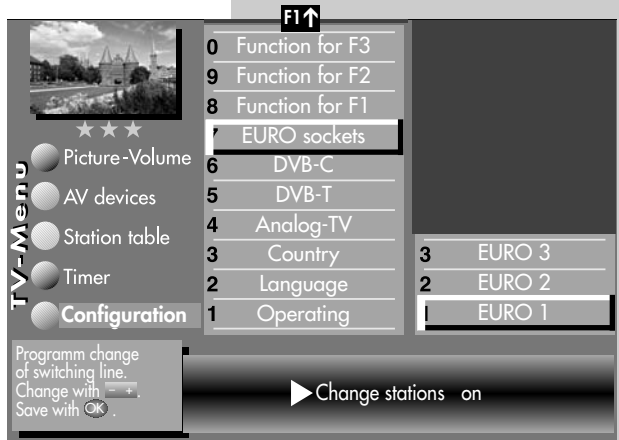
- Press the "**EXIT**" key to close the TV menu.

MENU

⤺

❼

OK

− +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

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10. AV Playback

If you now start to play back a recording on the connected AV device, the TV set changes automatically from any other programme position to the playback mode.

AV

9 HDMI
8 DVI
5 Front
4 YCbCr
3 Foto
2 DVD Player 1
▶ **1 DVD/Videorec.1**

Select with **0**...**9**
or ◀▶
Confirm with OK

AV playback

(devices without switching voltage)

☞ *Before they can be used, AV devices must be registered and assigned to the appropriate input sokkets in the menu "AV devices".*

In order to see the played back picture, you must switch the TV set to playback mode.

• Select any programme position.

• Press the "**AV**" key.

• Use the corresponding numeric key to select the AV device you want to use.

• The TV set now changes from the current programme to the selected playback device.

• Start the replay function on the AV device. This AV selection remains active until you switch to any other programme position.

• After watching the film from the AV device, press the "**TV**" key to return to normal TV mode.

10.1 AV Playback VCR function

Opening the menu

☞ *The menu item "VCR" is not available in a 2 ** menu.*

Picture quality when playing back from tape devices

The VCR function ensures an optimum picture quality when playing back recordings from tape devices such as video cassette recorders or camcorders.

Setting the VCR function

- Select the appropriate AV level by pressing the "**AV**" key and using the numeric keys to select the AV device which is to supply the pictures.

- Press the "**MENU**" key to open the TV menu.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

TV-Menu		
★ ★ ★		**3** VCR[3]
● **Picture-Volume**		**7** Picture format[5]
● AV devices		**6** Colour standard[3][7]
● Station table	**4** Sound set,.prog.posn	**5** Colour offset[3][7]
● Timer	**3** Sound settings, gen.	**4** Noise reduction[3]
● Configuration	**2** Pict.set.,prog.posn.	**3** Picture sharpness
	1 Picture settings, gen.	**2** Colour intensity
		1 Contrast

Change with − +
Accept value with OK

▶ VCR settings   Opt.1

- Use the corresponding numeric key (in the example: ❷) to select the menu item "Pict.settings for Pr."

- Use the corresponding numeric key (in the example: ❽) to select the menu item "VCR".

- Use the − + key to select "Opt.1". If this setting does not produce a satisfactory result, you can try using "Opt.2".

- Press the "**OK**" key to save the new setting.

- Press the "**EXIT**" key to close the TV menu.

AV ❶ . . . . ❾

MENU

◎

❷   ❽

+ −

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

5) Available only for DVB stations!
7) Available only for analogue stations!

11. General Picture Settings

☞ *Some of the menu items are not available in a 2 ** menu.*

The picture settings brightness, contrast, colour intensity, sharpness and noise reduction can be set generally for all programme positions and saved as **standard values** which can be recalled at any time by pressing the "**OK**" key.

MENU

Opening the picture settings menu:

This example describes how the brightness is adjusted. The other picture settings can be adjusted in a similar manner.

▶

			0	Factory settings
			9	Motion compensation
			8	Zoom/Panorama
			7	Noise reduction3)
★ ★ ★			6	Picture sharpness
Picture-Volume			5	Colour impr.
AV devices			4	Colour intensity
Station table	4	Sound set,.prog.posn	3	Backlight control
Timer	3	Sound settings, gen.	2	Contrast
Configuration	2	Pict.set.,prog.posn.	1	Brightness
		Picture settings, gen.		

TV-Menu

Change with **- +**
Accept current value as default value.

Brightness 61
Standard value 50
Use as default value: Yes

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• The various menu items can be selected with the aid of the numeric keys.

• In the setting window, use the **- +** key to change the setting.

• Use the cursor control key ▼ to select the third line "Save as standard values".

• If you wish to save the new setting, use the **- +** key to select "Yes".

+
−

OK

• Press the "**OK**" key to save the changed setting as a standard value.

• Press the "**EXIT**" key to close the TV menu.

EXIT

☞ *If the standard values do not provide a satisfactory picture in some programme positions, you can make settings for these positions which differ from the standard values. See the next sections. 11.1 and 11.2.*
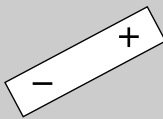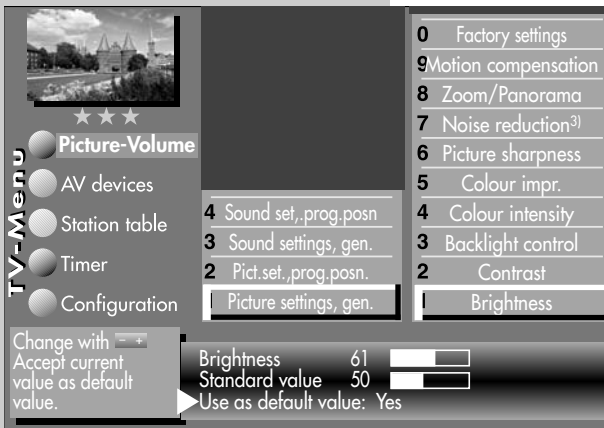
The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

11. General Picture Settings   Opening the menu

☞ *Some of the menu items are not available in a 2 ** menu.*

The backlight control (factory setting "off") can be set to "dynamic" or "automatic". With "dynamic" the backlight control is adjusted according to the picture contents.

With "automatic" the backlight control is adjusted according to the ambient brightness.

The backlight control can be set generally for all programs and saved.

Set backlight control:

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• Use the corresponding numeric keys (in this example: ❸ for the Backlight control) to select the desired menu items.

• Use the — + key to change the settings for "Backlight control".

• Press the "**OK**" key to save the changed setting as a standard value.

• Press the "**EXIT**" key to close the TV menu.

MENU

◉

▶

TV-Menu

★ ★ ★
● **Picture-Volume**
● AV devices
● Station table
● Timer
● Configuration

Change with — +
Accept value with OK

4	Sound set,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
	Picture settings, gen.

0	Factory settings
9	Motion compensation
8	Zoom/Panorama
7	Noise reduction[3)]
6	Picture sharpness
5	Colour impr.
4	Colour intensity
3	Backlight control
2	Contrast
1	Brightness

▶ Backlight control   off

— +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

19

Opening the menu

11. General Picture Settings

☞ *Some of the menu items are not available in a 2 ** menu.*

Depending on the brightness of the picture shown, with the setting "Picture improvment on" there is an extension of the bright area in the case of dark picture contents.

As a result, dark pictures are reproduced with greater accuracy of detail.

The picture improvement can be set to "on" or "off".

MENU

◉

▶

		)	Picture improvment
		9	Factory settings
★ ★ ★		8	Motion compensation
Picture-Volume		7	Zoom/Panorama
AV devices		6	Noise reduction[3)]
Station table	4 Sound set,.prog.posn	5	Picture sharpness
Timer	3 Sound settings, gen.	4	Colour impr.
Configuration	2 Pict.set.,prog.posn.	3	Colour intensity
	Picture settings, gen.	2	Backlight control
		1	Contrast

Change with ▬ +
Accept value with OK

▶ Picture improvment on

TV-Menu

Setting the Picture improvment

- Press the "**MENU**" key. The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

- Use the cursor control key ▶ to select the menu item "Brightness".

- The various menu items can be selected with the aid of the numeric keys.

- Use the ▬ + key to change the settings for "Picture improvment".

- Press the "**OK**" key to save the new settings. The picture shows the factory settings.

- Press the "**EXIT**" key to close the TV menu.
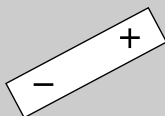
+
–

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

Opening the menu

☞ *Some of the menu items are not available in a 2 ** menu.*

This function provides a better picture for black-and-white films or cinema films. Movement are more fluid and the picture looks more plastic.

Setting the Motion compensation

• Press the "**MENU**" key.
  The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• The various menu items can be selected with the aid of the numeric keys.

• Use the **- +** key to change the settings for "Motion compensation".

• Press the "**OK**" key to save the new settings. The picture shows the factory settings.

• Press the "**EXIT**" key to close the TV menu.

MENU

◉

▶

0	Factory settings	
	Motion compensation	
8	Zoom/Panorama	
7	Noise reduction[3)]	
6	Picture sharpness	
5	Colour impr.	
4	Colour intensity	
3	Backlight control	
2	Contrast	
1	Brightness	

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

4 Sound set,.prog.posn
3 Sound settings, gen.
2 Pict.set.,prog.posn.
Picture settings, gen.

Change with - +
Accept value with OK

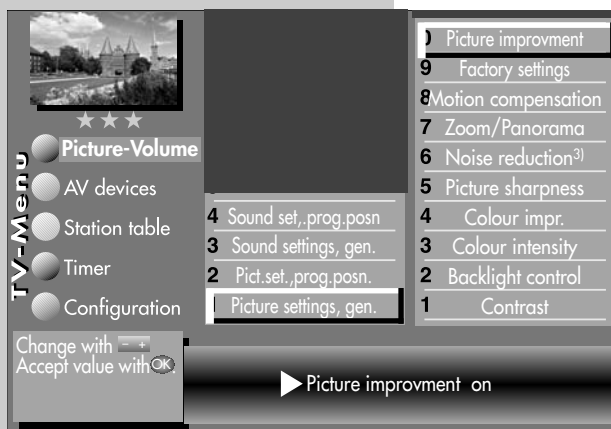▶ Motion compensation   medium

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
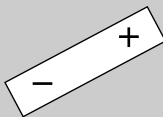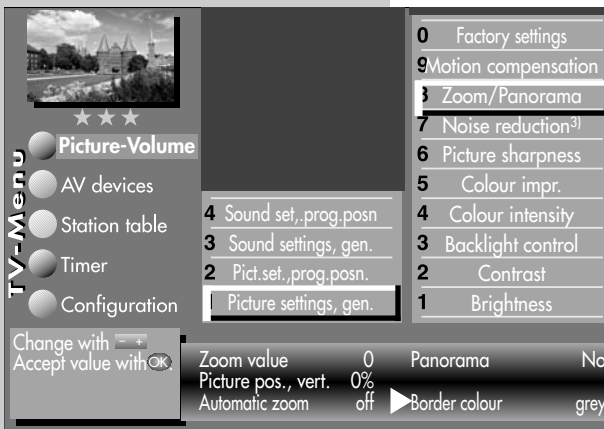
11. General Picture Settings

☞ *Some of the menu items are not available in a 2 ** menu.*

Displays that do not fill the screen produce black border. These border can be changed to a grey tone to avoid "image sticking"3).

Displaying the picture in 4:3 format, for example, produces these black border at the left and right.

Adjust border colour:

• Press the "**MENU**" key.

The TV menu appears on the screen.

MENU

⊚

▶

0	Factory settings
9	Motion compensation
8	Zoom/Panorama
7	Noise reduction3)
6	Picture sharpness
5	Colour impr.
4	Colour intensity
3	Backlight control
2	Contrast
1	Brightness

★ ★ ★

TV-Menu
- ● **Picture-Volume**
- ● AV devices
- ● Station table
- ● Timer
- ● Configuration

4	Sound set,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
1	Picture settings, gen.

Change with ▬ +
Accept value with OK

Zoom value	0	Panorama	No
Picture pos., vert.	0%		
Automatic zoom	off	▶Border colour	grey

• Press the blue key ⊚. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• Use the corresponding numeric keys (in this example: ❽ for Zoom/Panorama) to select the desired menu items.

• Use the cursor control key to select the desired menu items.

+ −

• Use the ▬ + key to change the settings for "Border colour".

OK

• Press the "**OK**" key to save the new settings. The picture shows the factory settings.

EXIT

• Press the "**EXIT**" key to close the TV menu.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

11. General Picture Settings | Opening the menu

The picture settings zoom, vertical position, automatic zoom and panorama can be set and saved as general settings for all programme positions.

Setting the zoom/panorama mode:

• Press the "**MENU**" key.
The TV menu appears on the screen.

MENU

◉

▶

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• Press the corresponding **numeric key** to select "Zoom/Panorama".

0	Picture improvment
9	Factory settings
8	Zoom/Panorama³⁾⁷⁾
7	Noise reduction³⁾
6	Picture sharpness
5	Colour impr.
4	Colour intensity
3	Backlight control
2	Contrast
1	Brightness

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

4	Sound set,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
	Picture settings, gen.

Change with – +
Accept value with OK

Zoom value	0	Panorama	Yes
Picture pos., vert.	0%	Pan. mode	Non-linear
Automatic zoom	off		

• Use the cursor control key to select the desired menu items.

• Use the **- +** key to change the settings for "Zoom/Panorama".

• Press the "**OK**" key to save the new settings. The picture shows the factory settings.

• Press the "**EXIT**" key to close the TV menu.

☞ *The functions "Panorama" and "Zoom" can be combined with each other.*

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

3) See glossary for an explanation.

11.1 Picture Settings for Programmes via TV Menu

MENU

👁

▲

OK

☞ *Picture settings for individual programme positions are not available in a 2 ** menu.*

If the standard values do not provide a satisfactory picture in some programme positions, you can make different settings for these positions which override almost all of the general picture settings. These individual settings apply only to the programme position for which they are made, and they cannot be overwritten with the standard values. In addition to the general picture settings, the individual settings also include the settings colour offset, colour standard and VCR.

Individual picture settings for programme position xy:

• Select the programme position whose picture settings you wish to change.

❹

+
−

OK

EXIT

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key 👁. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▲ to select the menu item "Pic. settings for Pr." And press the "**OK**" key.

• Use the corresponding numeric keys (in this example: ❹ for noise reduction) to select the desired menu items.

• In the setting window, use the **- +** key to change the setting.

• Press the "**OK**" key to save the new setting.

• Press the "**EXIT**" key to close the TV menu.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
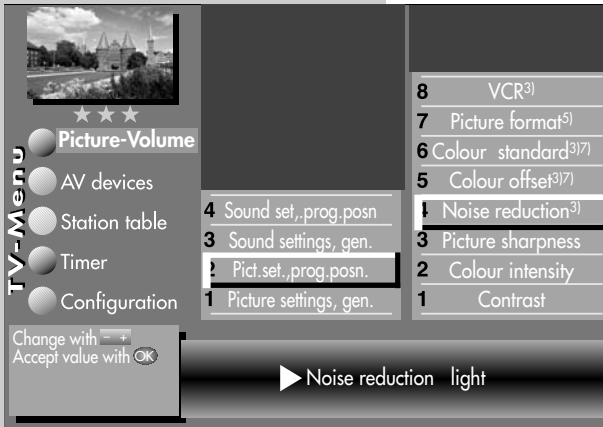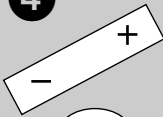2) Possible only on sets equipped with this function.
3) See glossary for an explanation.
5) Available only for DVB stations!
7) Available only for analogue stations!

11.2 Picture Settings for Programme via Station Table

Opening the menu

Individual picture settings for programme position xy:

- Select the programme position whose picture settings you wish to change.

- Press the "**MENU**" key.
  The TV menu appears on the screen.

- Press the white key ⓟ. The station table is displayed with the currently active programme position highlighted.

- Press the **F2** key to enable editing of the station table.

- Press the cursor control key ▶ to move to the subject side.

- Use the corresponding numeric keys (in this example: ❺ for the picture quality) to select the desired menu items.

- In the setting window, use the cursor control key to select the desired function.

- Use the **- +** key to change the setting. "gen." means here that the new setting will overwrite the related general picture setting (see pages 18 and 20).

☞ *The individual settings made here which differ from the general settings remain saved.*

- Press the "**OK**" key to save the new settings.

- Press the "**EXIT**" key to close the TV menu.

3) See glossary for an explanation.
5) Available only for DVB stations!
7) Available only for analogue stations!

MENU

ⓟ

F2

▶ ❺

		F1↑		
	0010	Hessen 3	**0**	Sound corrections
	0009	Südwest	**9**	Colour standard3)7)
	0008	MDR	**8**	Picture quality
★ ★ ★	0007	PRO 7	**7**	Picture correct.
Picture-Volume	0006	RTL 2	**6**	Enter logo
AV devices	0005	RTL	**X**	Station contained in EPG
Station table	0004	SAT 1	**4**	CA module5)
Timer	0003 Bayern 3		**3**	Signal quality5)
	0002	ZDF	**2**	DVB-prog. info5)
Configuration	0001	ARD	**1**	Frequency/channel7)

Change with **- +**
Accept value with ⓞ ▶ Picture sharpness   gen.   Noise reduction   gen.
Colour offset   0
VCR   off

+
−

(OK)

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
5) Available only for DVB stations!
7) Available only for analogue stations!

12. General Sound Settings

☞ *Some of the menu items are not available in a 2 ** menu.*

The sound settings volume, treble, bass, stereo wide and spatial sound can be set generally for all programme positions and saved as standard values which can be recalled at any time by pressing the "OK" key.

Opening the sound settings menu:

MENU

◉

3

- Press the "MENU" key.
  The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

F1↑

0	Base width 4)
9	Spatial sound 4)
8	Balance
7	Tone setting
6	Volume headphones
5	Bass
4	Treble
3	Automatic volume control(3)
2	SRS WOW 2) 3)
1	Volume

- Use the corresponding numeric key (in the example: **3**) to select "General sound settings".

- Use the corresponding numeric keys to select the desired menu items in the right-hand column.

- Press the "**OK**" key to open the selected menu item for editing.

★ ★ ★

Picture-Volume

TV-Menu

AV devices

Station table

Timer

Configuration

4	Sound set,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
1	Picture settings, gen.

Change with – +
Accept current value as default value.

Volume 61
Standard value 50
▶ Use as default value: Yes

- In the setting window, use the **- +** key to change the setting.

- Use the cursor control key ▼ to select the third line "Save as standard value".

- If you wish to save the new setting, use the **- +** key to select "Yes".

+ −

OK

- Press the "**OK**" key to save the new settings as standard values.

EXIT

- Press the "**EXIT**" key to close the TV menu.

☞ *If the standard values do not provide satisfactory results for some programme positions, you can make different individual settings for these positions. See sections 12.1.*
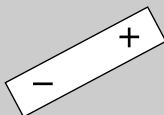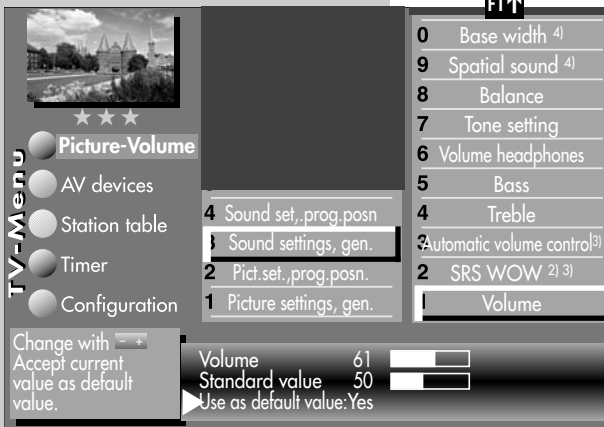
The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
2) Possible only on sets equipped with this function.
3) See glossary for an explanation.
4) Available only if SRS WOW is switched off

12. General Sound Settings

Opening the menu

☞ *Some of the menu items are not available in a 2 ** menu.*

Setting SRS-WOW [2]

• Press the "MENU" key.

The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Press the numeric key ❸ to select "General sound settings".

• Use the corresponding numeric key (in the example: ❷) to select "SRS–WOW" [2].

• In the setting window, use the **-** **+** key to change the setting.

• Press the "**OK**" key to save the changed setting.

• „Press the "**EXIT**" key to close the TV menu.

☞ *If the SRS-WOW function is active, the menu items "stereo wide" and "spatial sound" are disabled.*

MENU

◉

❸   ❷

F1↑

0	Base width [4]
9	Spatial sound [4]
8	Balance
7	Tone setting
6	Volume headphones
5	Bass
4	Treble
3	Automatic volume control [3]
2	SRS WOW [2] [3]
1	Volume

★ ★ ★

TV-Menu

- ● **Picture-Volume**
- ● AV devices
- ● Station table
- ● Timer
- ● Configuration

4	Sound set,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
1	Picture settings, gen.

Change with **-** **+**
Accept value with OK

▶SRS WOW[2][3]   on

-   **+**

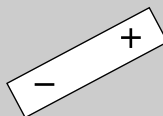**OK**

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

3) See glossary for an explanation.

4) Available only if SRS WOW is switched off

27

12. General Sound Settings

Automatic volume correction

Some TV stations transmit their commercials at a higher sound volume than that for the normal programme. In order to save you from adjusting the volume each time with the remote control, you can activate automatic volume correction.

With this function active, there is little difference in the volume levels for the normal programme and the commercials.

MENU

3   **3**

0	Base width 4)
9	Spatial sound 4)
8	Balance
7	Tone setting
6	Volume headphones
5	Bass
4	Treble
	Automatic volume control 3)
2	SRS WOW 2) 3)
1	Volume

TV-Menu

★★★

Picture-Volume
AV devices
Station table
Timer
Configuration

4	Sound set,.prog.posn.
3	Sound settings, gen.
2	Pict.set.,prog.posn.
1	Picture settings, gen.

Change with – +
Accept value with OK

▶Volume control[3]   on

The setting made here applies to all programme positions.

Opening the volume correction menu:

- Press the "**MENU**" key. The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

- Use the corresponding numeric key (in the example: **3**) to select "General sound settings".

- Use the corresponding numeric key (in the example: **3**) to select "Volume correction".

- In the setting window, use the – + key to change the setting.

- Press the "**OK**" key to save the new setting.

- Press the "**EXIT**" key to close the TV menu.

☞ *The function "Volume correction" in the menu "General sound settings" does not overwrite the function "Volume correction" in the menu "Sound settings for Pr...".*
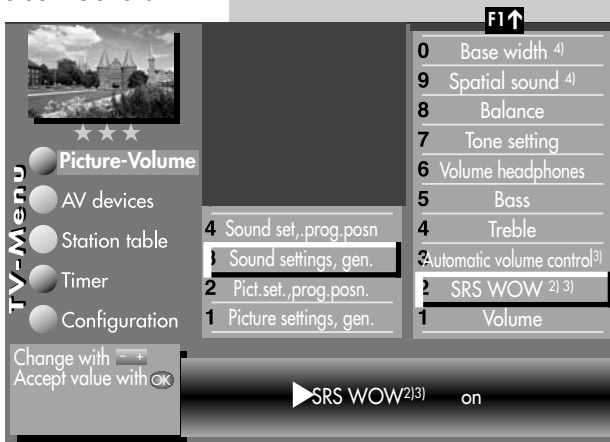
+
–

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
2) Possible only on sets equipped with this function.
3) See glossary for an explanation.
4) Available only if SRS WOW is switched off

12. General Sound Settings

Opening the menu

☞ *Bei einem 2 ⋆⋆ Menü sind verschiedene Menüpunkte nicht einstellbar.*

Audio frequencies can be individually adjusted to your personal tastes in the "Equalizer" menu.

Adjust Equalizer:

- Press the "**MENU**" key.
  The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

- Use the corresponding numeric key (in the example: ❸) to select "General sound settings".

- Use the corresponding numeric key (in the example: ❹) to select "Equalizer".

- Press Cursor control key ▶ and adjust each slider in turn.

- Change the setting with the - + key..

- With the cursor control key ▼ activate the line "As standard".

- To save the new value press the - + key and select "Yes".

- Press the "**OK**" key to save the new setting.

- Press the "**EXIT**" key to close the TV menu.

MENU

◉

❸   ❹

TV-Menu			
⋆ ⋆ ⋆			9 Base width 4)
● **Picture-Volume**			8 Spatial sound 4)
AV devices			7 Balance
Station table	4 Sound set,.prog.posn		6 Tone setting
Timer	3 Sound settings, gen.		5 Volume headphones
● Configuration	2 Pict.set.,prog.posn.		4 Equalizer
	1 Picture settings, gen.		3 Automatic volume control[3]
			2 SRS WOW 2) 3)
			1 Volume

Change with − +
Accept value with OK

Equalizer
Use a default value. No   10   0   0   0   0   0
100 Hz 200 Hz 500 Hz 1,2 kHz 3 kHz 7,5 kHz 12 kHz

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
2) Possible only on sets equipped with this function.
3) See glossary for an explanation.
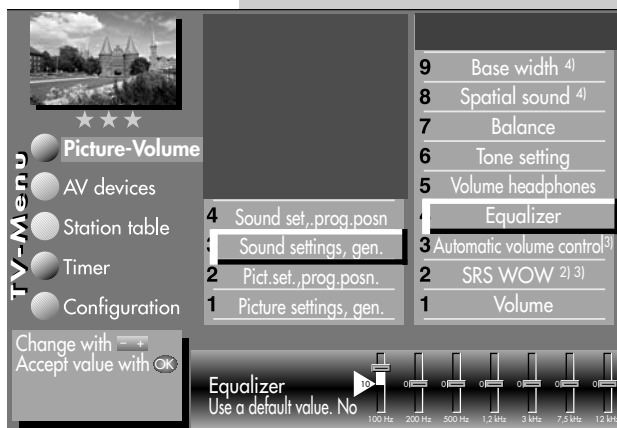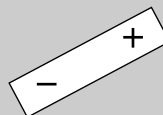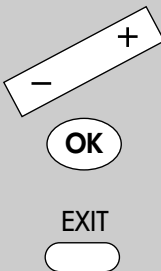4) Available only if SRS WOW is switched off

12. General Sound Settings

Base width and spatial sound

☞ *The menu points base width and spatial sound are only shown when the function "SRR WOW" is turned off..*

Base width

In the case of stereo transmissions, the base width (= spatial distance between the loudspeakers) can be artificially widened to achieve a larger stereo triangle.

Spatial sound

In the case of mono transmissions, an artificial stereo effect can be produced.

F1↑	
0	Factory settings
9	Base width [4)]
8	Spatial sound [4)]
7	Balance
6	Tone setting
5	Volume headphones
4	Equalizer
3	Automatic volume control[3)]
2	SRS WOW [2) 3)]
1	Volume

★ ★ ★

Picture-Volume

AV devices

Station table

Timer

Configuration

TV-Menu

4 Sound set,.prog.posn
3 Sound settings, gen.
2 Pict.set.,prog.posn.
1 Picture settings, gen.

Change with — +
Accept value with OK

▶Spatial sound   on

Activate base width/spatial sound:

- Press the "MENU" key. The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

- Press the numeric key **3** to select "General sound settings".

- Select "Spatial sound" or "Base width" with key allocated, in the example **9** or 0.

- In the setting window, use the - + key to change the setting.

- Press the "**OK**" key to save the changed setting.

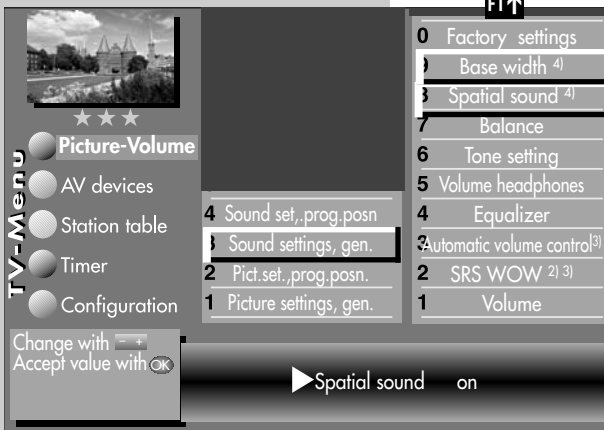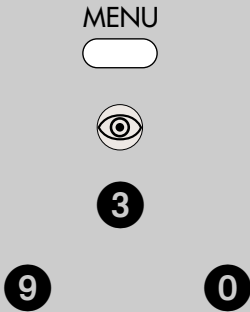- „Press the "**EXIT**" key to close the TV menu.

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

3) See glossary for an explanation.

4) Available only if SRS WOW is switched off

12.1 Sound Settings for Programmes via TV Menu

Opening the menu

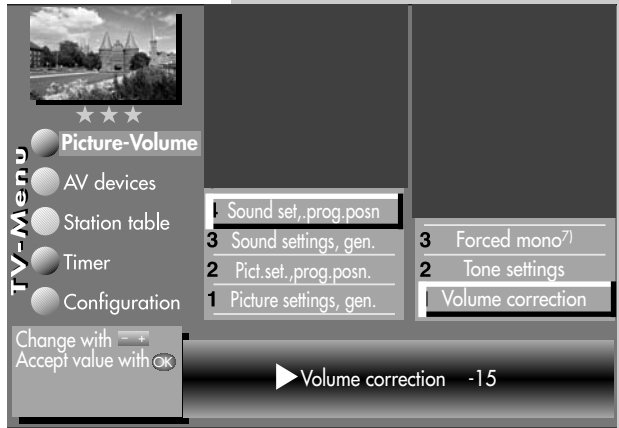☞ *Some of the menu items are not available in a 2 ** menu.*
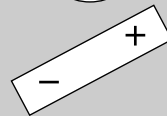
Volume correction

Various TV stations broadcast their programmes with different sound volumes. This volume difference can be minimised by correcting the volume. This adjustment remains active even if the standard sound values are recalled.

Adjusting the volume correction:

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◎. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

★ ★ ★		
Picture-Volume		
AV devices		
Station table	4 Sound set,.prog.posn	3 Forced mono[7]
Timer	3 Sound settings, gen.	2 Tone settings
Configuration	2 Pict.set.,prog.posn.	Volume correction
	1 Picture settings, gen.	

Change with ▬ +
Accept value with OK

▶ Volume correction   -15

• Use the corresponding numeric key (in the example: ❹) to select "Sound settings for Pr.".

• Press the "**OK**" key and then, in the setting widow, use the ▬ **+** key to change the setting.

• Press the "**OK**" key to save the new settings.

• Press the "**EXIT**" key to close the TV menu.

☞ *Individual sound settings can also be made in the station table.*

MENU

◎

❹

OK

▬ +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
7) Available only for analogue stations!

12.1 Sound Settings for Programmes via TV Menu

MENU

◉

4   **2**

☞ *Some of the menu items are not available in a 2 ** menu.*

Tone setting

The tone setting can be set to "Normal" or "Speech". The setting "Speech" should be used primarily for stations which broadcast mainly programmes with a lot of speech, such as news stations. The setting "Normal" is better for music programmes.

Adjusting the tone setting :

```
┌─────────────────────────────────────┐
│         ★ ★ ★                        │
│  ● Picture-Volume                    │
│  ● AV devices                        │
│  ● Station table    Sound set,.prog.posn│
│  ● Timer         3 Sound settings, gen.  3 Forced mono⁷⁾│
│  ● Configuration 2 Pict.set.,prog.posn.   Tone settings│
│                  1 Picture settings, gen. 1 Volume correction│
│ Change with ─ +                      │
│ Accept value with OK                 │
│          ▶Tone settings  Speech      │
└─────────────────────────────────────┘
```

- Press the "**MENU**" key. The TV menu appears on the screen.

- Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

- Use the corresponding numeric key (in the example: **4**) to select "Sound settings for Pr.".

- Use the corresponding numeric key (in the example: **2**) to select "Tone settings".

- In the setting window, use the **-** **+** key to change the setting.

- Press the "**OK**" key to save the new settings.

- Press the "**EXIT**" key to close the TV menu.

☞ *Individual sound settings can also be made in the station table.*

− +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
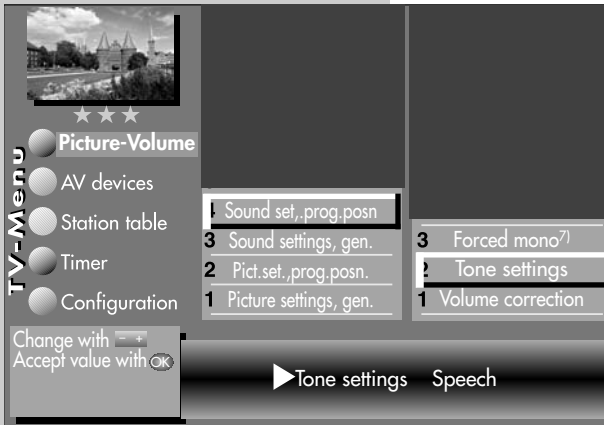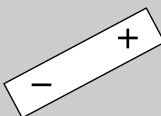
12.1 Sound Settings for Programmes via TV Menu

☞ *Some of the menu items are not available in a 2 ** menu.*

Forced mono[7]

It may happen that your TV set switches from mono to stereo in the middle of a programme, although no stereo sound is being transmitted. This is generally caused by the local reception conditions. If you activate "Forced mono" for the selected programme position, all programmes from this station will be reproduced in mono.

Activating forced mono:

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

MENU

◉

4   **3**

TV-Menu
★ ★ ★
○ **Picture-Volume**
○ AV devices
○ Station table
○ Timer
○ Configuration

Sound set,.prog.posn	**3** Forced mono[7]
3 Sound settings, gen.	**2** Tone settings
2 Pict.set.,prog.posn.	**1** Volume correction
1 Picture settings, gen.	

Change with – +
Accept value with ⊙⊙

▶ Forced mono   on

• Use the corresponding numeric key (in the example: **4**) to select "Sound settings for Pr.".

• Use the corresponding numeric key (in the example: **3**) to select "Forced mono".

• In the setting window, use the **- +** key to change the setting.

– +

• Press the "**OK**" key to save the new settings.

OK

• Press the "**EXIT**" key to close the TV menu.

EXIT

☞ *Individual sound settings can also be made in the station table.*
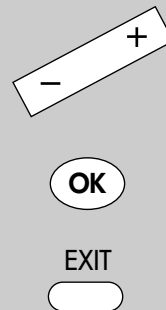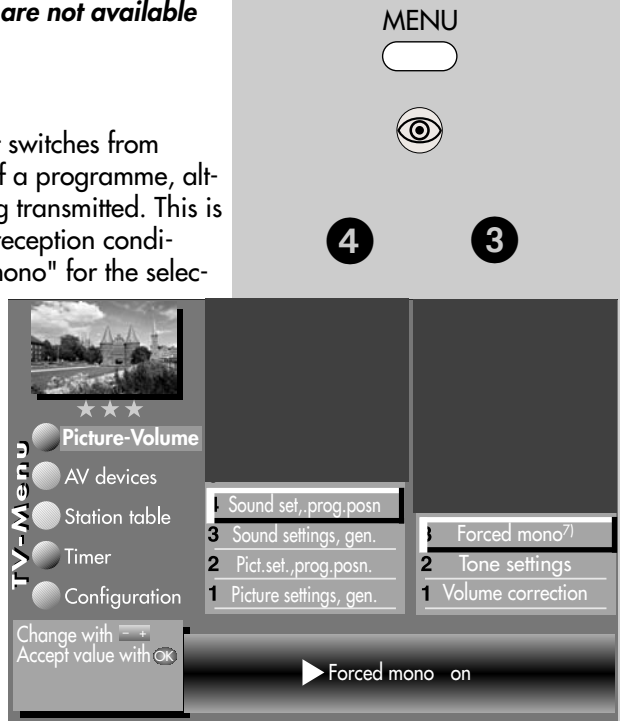
The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
7) Available only for analogue stations!

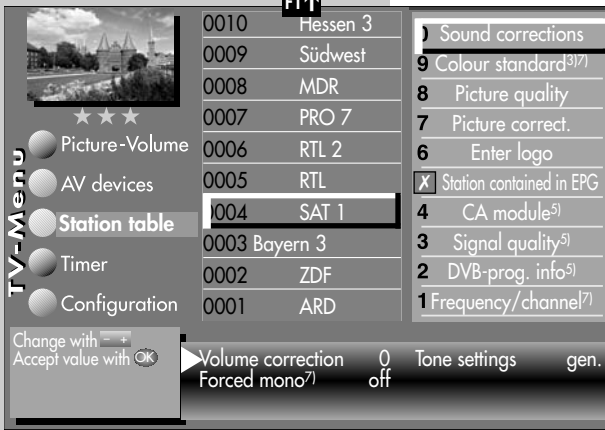# 12.2 Sound Settings for Prog. via the Station Table

MENU

(®)

F2

▶

0

Making sound corrections:

• Select the programme position whose sound settings you wish to change.

• Press the "**MENU**" key.
The TV menu appears on the screen.

• Press the white key ®. The station table is displayed with the currently active programme position highlighted.

	F1↑			
	0010	Hessen 3		Sound corrections
	0009	Südwest	9	Colour standard³⁾⁷⁾
	0008	MDR	8	Picture quality
★ ★ ★	0007	PRO 7	7	Picture correct.
Picture-Volume	0006	RTL 2	6	Enter logo
AV devices	0005	RTL	X	Station contained in EPG
Station table	0004	SAT 1	4	CA module⁵⁾
Timer	0003 Bayern 3		3	Signal quality⁵⁾
	0002	ZDF	2	DVB-prog. info⁵⁾
Configuration	0001	ARD	1	Frequency/channel⁷⁾

Change with − +
Accept value with OK   ▶ Volume correction   0   Tone settings   gen.
Forced mono⁷⁾   off

• Press the **F2** key to enable editing of the station table.

• Use the cursor control key ▶ to move to the subjects side.

• Use the corresponding numeric keys (in this example: **0** for sound corrections) to select the desired menu items.

• In the setting window, use the cursor control key to select the desired functions.
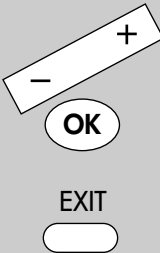
The use of the **- +** key to change the selected setting. "**gen**." means here that the new setting will overwrite the **gen**eral sound settings (see pages 26).

+
−

OK

Press the "**OK**" key to save the new settings.

Press the "**EXIT**" key to close the TV menu.

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

3) See glossary for an explanation.

5) Available only for DVB stations!

7) Available only for analogue stations!
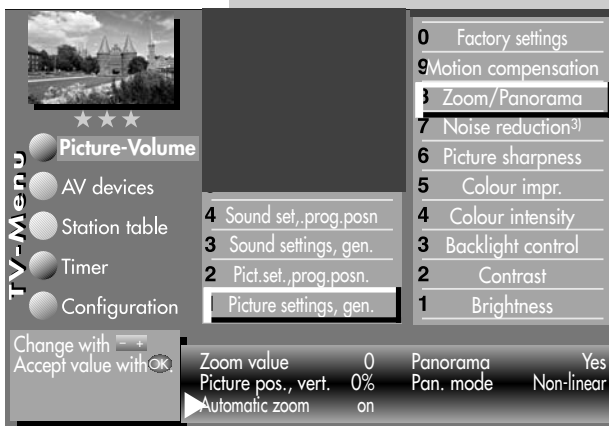
13. Automatic zoom

Opening the menu

☞ **The menu item "Automatic zoom" is not available in a 2 ** menu.**

When the automatic zoom function is active, programmes in a "widescreen" format (such as programmes in 16:9) are expanded to fill as much of the screen as possible.
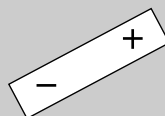
If the function is inactive, the programmes are displayed in their original format.

Activating the automatic zoom [2)]

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◉. The menu "Picture and sound" and the menu item "General picture settings" are pre-selected.

• Use the cursor control key ▶ to select the menu item "Brightness".

• Use the corresponding numeric key (in the example: **8**) to select the function "Zoom/Panorama".

• Use the cursor control key ▼ to select the menu item "Automatic zoom".

• Use the **- +** key to change the setting.

• Press the "**OK**" key to save the new setting.

• Press the "**EXIT**" key to close the TV menu.

MENU

◉

▶

8

▼

	★ ★ ★			0	Factory settings
				9	Motion compensation
	Picture-Volume			8	Zoom/Panorama
	AV devices			7	Noise reduction[3)]
	Station table			6	Picture sharpness
	Timer	4	Sound set.,prog.posn	5	Colour impr.
		3	Sound settings, gen.	4	Colour intensity
	Configuration	2	Pict.set.,prog.posn.	3	Backlight control
			Picture settings, gen.	2	Contrast
				1	Brightness

Change with **- +**
Accept value with OK

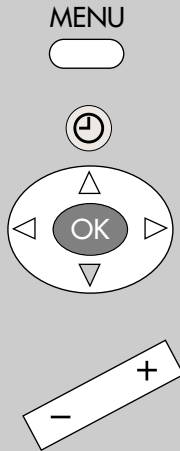| Zoom value	0	Panorama	Yes
Picture pos., vert.	0%	Pan. mode	Non-linear
▶Automatic zoom	on		

- +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
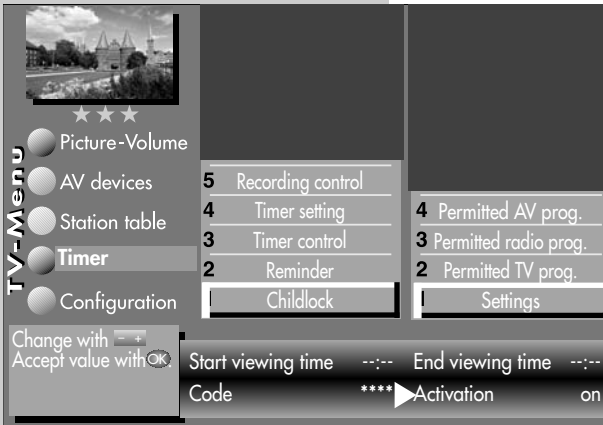
35

14. Childlock

With the aid of the childlock function, you can determine whether or not the TV set can be switched on and which stations may be selected at which times. The childlock can be set such that:

a) it is always active,

b) one to six TV, radio or AV programmes (Prog A ... Prog F) are exempted from the locking function (permitted programmes), or

c) all programmes, or programmes which are not locked, may be viewed during a permitted time period (TV start – TV end).

The childlock must be saved once with a 4-digit "code" (password).

a) Activating the childlock

MENU

• Press the "MENU" key. The TV menu appears on the screen.

• Press the green key ⊚ to open the menu "Timer".

• Use the cursor control key ▶ to select "Settings" and press the "**OK**" key.

• In the setting window, use the cursor control key to select the menu item "Activate" and then use the **- +** key to set the childlock to "Active".

		Picture-Volume		
		AV devices	5 Recording control	4 Permitted AV prog.
TV-Menu		Station table	4 Timer setting	3 Permitted radio prog.
		Timer	3 Timer control	2 Permitted TV prog.
		Configuration	2 Reminder	
			Childlock	Settings

Change with **- +**
Accept value with OK

Start viewing time --:--	End viewing time --:--
Code ****▶	Activation on

OK

• Use the cursor control key ◀ to select "Code" and enter your personal 4-digit code with the numeric keys.
Make a note of this code!

EXIT

• Press the "**OK**" key to save the new setting.

• Press the "**EXIT**" key to close the TV menu.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
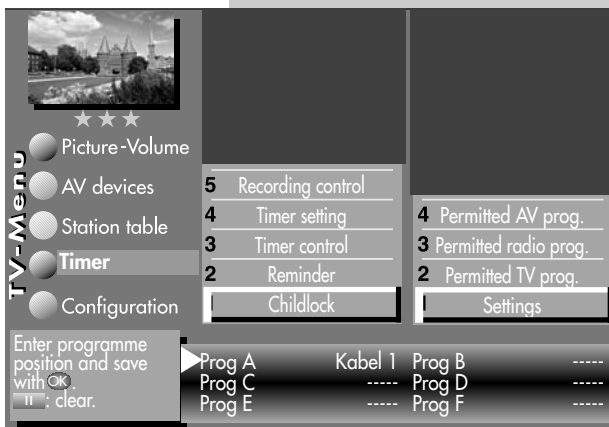
b) Permitted programmes:

Activate the childlock as described in step a).

Use the corresponding numeric key to select the menu item "Permitted xx progs." (xx = TV, radio or AV). Press the "**OK**" key and, in the setting window, enter the programme positions with the

numeric keys or use the **- +** key to select the desired programme positions.

• Press the "**OK**" key to save the new settings.

c) TV start – TV end

Activate the childlock as described in step a). In the setting window, use the cursor control key to select the start and end times and enter the desired times with the numeric keys. Press the "OK" key to save the settings.

★ ★ ★	
⬤ Picture-Volume	
⬤ AV devices	**5** Recording control
⬤ Station table	**4** Timer setting
Timer	**3** Timer control
⬤ Configuration	**2** Reminder
	Childlock

| **4** Permitted AV prog. |
| **3** Permitted radio prog. |
| **2** Permitted TV prog. |
| Settings |

Enter programme position and save with ⓄⓀ.
⏸ : clear.

▶ Prog A   Kabel 1   Prog B   -----
Prog C   -----   Prog D   -----
Prog E   -----   Prog F   -----

Protecting the childlock settings with your code

• Use the cursor control key to select "Code" and enter your personal code (password) with the numeric keys.

☞ *Make a note of this code, since the child lock can be deactivated only if the correct code is entered !*

• Press the "**OK**" key to save the settings.

• Press the "**EXIT**" key to close the TV menu.

• Switch off the TV set with the ⏻ key.

☞ *The childlock is not fully activated until the TV set is switched off.*

Deactivating the childlock

If the childlock is active, a window requesting your personal code is displayed each time the TV set is switched on. Entering the correct code enables the TV set and it can then be used normally until it is switched off again. To cancel the childlock function, proceed as described in step a), above, and set the childlock to "Inactive".
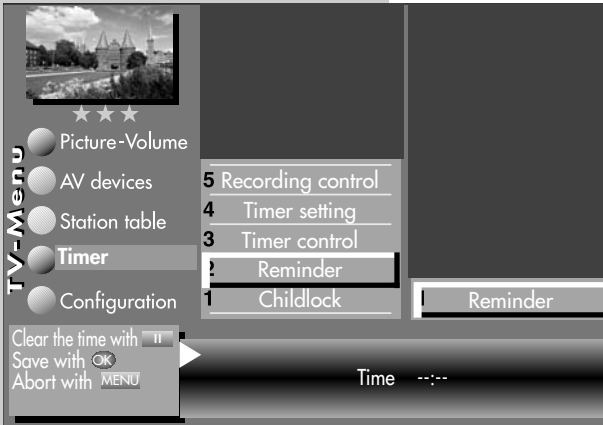
Factory setting
Code: 0000

MENU

2

OK

☞ *The menu item "Reminder" is not available in a 2 ** menu.*

If you wish to be reminded of something while watching TV, you can set a reminder for any desired time. At this time, a window with the reminder appears on the screen.

Setting the reminder time

• Press the "**MENU**" key to open the TV menu.

• Press the green key ☺ to open the "Timer" menu.

• Press the numeric key **2** to select "Reminder".

• Press the "**OK**" key and then, in the setting window, enter the desired time (four digits) with the **numeric keys**.

• Press the "**OK**" key to save this setting.

• Press the "**EXIT**" key to close the TV menu.

```
┌─────────────────────────────────────┐
│ ★ ★ ★                               │
│   ○ Picture-Volume                  │
│   ○ AV devices      5 Recording control │
│   ○ Station table   4  Timer setting │
│     Timer           3  Timer control │
│   ○ Configuration   2  Reminder      │
│                     1  Childlock   Reminder │
│ Clear the time with ▮▮              │
│ Save with OK        ▶               │
│ Abort with MENU          Time  --:-- │
└─────────────────────────────────────┘
```

OK

EXIT

At the programmed time, a window with the reminder is displayed on the screen. You can close this window by pressing any key on the remote control.

☞ *If you do not want the reminder to appear every day, you must clear the time in the menu by pressing the ll key.*

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

Opening the menu

☞ *The menu items "On time" and "Off time" are not available in a 2 ** menu.*

In the menu item "Timer control", you can pro-gramme a switch-on time, a switch-off time and a sleep timer (switch off after ...).

The **switch-on time** is the time at which the TV set is to be switched on automatically.

The **switch-off time** is the time at which the TV set is to be switched off automatically.

The **sleep timer** (switch off after...) switches off the TV set after a programmed delay (which can be set in steps of 15 minutes).
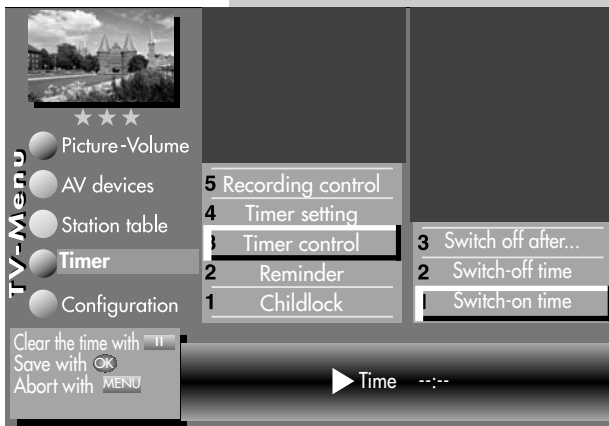
MENU

🕐

3

OK

Setting the on time and off time

• Press the "**MENU**" key to open the TV menu.

• Press the green key 🕐 to open the "Timer" menu.

• Press the numeric key **2** to select "Timer control".

• Press the "**OK**" key and then, in the setting window, enter the desired time (four digits) with the numeric keys.

TV-Menu			
★ ★ ★			
◯ Picture-Volume			
◯ AV devices	**5** Recording control		
◯ Station table	**4** Timer setting		
Timer	**3** Timer control	**3** Switch off after...	
	2 Reminder	**2** Switch-off time	
◯ Configuration	**1** Childlock	Switch-on time	

Clear the time with ⏸
Save with OK
Abort with MENU

▶ Time   --:--

• Press the "**OK**" key to save the setting.

• Press the "**EXIT**" key to close the TV menu.

OK

EXIT

At the programmed on time, the TV set is switched on from the standby state (red LED lights). You must confirm this automatic action by pressing any key on the remote control. If this is not done, the TV set will switch back to the standby state after 10 minutes. This ensures that the TV set does not stay on if you are not at home.

☞ *If you do not want to have the TV set switch itself on each day, you must clear the on and off times in the menu by pressing the II key.*

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

16.1 Setting the Time and Date

MENU

4

OK

★ ★ ★

TV-Menu

- Picture-Volume
- AV devices
- Station table
- **Timer**
- Configuration

5 Recording control
   Timer setting
3 Timer control
2 Reminder
1 Childlock

3 Local time offset
2 Current date
   Current lokal time

Save with OK
Abort with MENU

▶ Time   20:00:00

OK

2

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
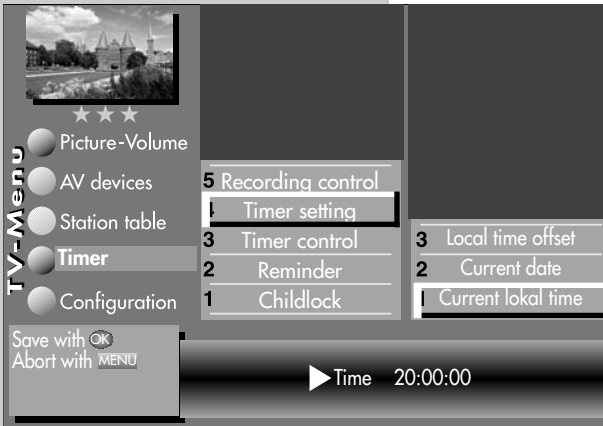
Normally, the TV set will determine the current date and time from the Teletext signals of the currently selected station (providing this station sends Teletext).

Note: For this the device must be turned on with the mains switch.

If this is not the case, or if an incorrect date or time is displayed, you can set the date and time manually.

In almost all cases, you will not need to do this. Even the changeover between winter time and summer time is executed automatically.

<u>Setting the time and date manually:</u>

- Press the "**MENU**" key to open the TV menu.
- Press the green key ⦾ to open the "Timer" menu.
- Press the numeric key **4** to select "Time settings".
- Press the "**OK**" key and then, in the setting window, enter the current time with the numeric keys.
- You can then start the internal clock precisely by pressing the "**OK**" key when the time you have entered is reached.
- Press the numeric key **2** to select "Current date".
- In the setting window, enter the date with the numeric keys.
- Press the "**OK**" key to save the settings.
- Press the "**EXIT**" key to close the TV menu.

i The **local time offset** is the difference between the local time where the TV set is installed and Greenwich Mean Time (GMT). The TV set normally detects this time offset and also the additional changeover to summer time.

The time needs to be set manually only if it is not detected automatically.

Opening the menu

☞ *This menu item is not available in a 2 ** menu.*

In the menu item "Recording control", you can set a lead time and an overrun time for timer recordings.

The TV set is automatically switched to the programme position from which the recording is to be made at a time which is the number of minutes programmed as the **lead time** before the programmed starting time for the recording.

At the end of the programmed recording time, the TV set remains set to this programme position for the period programmed as the **overrun time**.

For **VPS** recordings, the TV set is automatically switched to the programme position from which the recording is to be made at a time which is the number of minutes programmed as the VPS lead time before the programmed starting time for the recording. By default, the TV set switches to this programme position about one hour before the programmed start time for a VPS recording.

MENU

🕐

5

▲ ▼

OK

TV-Menu			
Picture - Volume			
AV devices			
Station table			
Timer	**5** Recording control		
	4 Timer setting		
Configuration	**3** Timer control	**3** Lead time with VPS	
	2 Reminder	**2** Overrun time	
Save with OK	**1** Childlock	Lead time	
Abort with MENU			
	▶ Lead time 5 min		

Setting the lead time, VPS lead time and overrun time

• Press the "**MENU**" key to open the TV menu.

• Press the green key 🕐 to open the "Timer" menu.

• Use the corresponding numeric key (in the example: **5**) to select the menu item "Recording control".

• Use the cursor control key to select the desired menu item.

• Press the "**OK**" key and then, in the setting window, use the **-** **+** key to set the desired lead or overrun time.
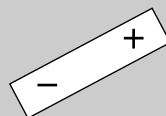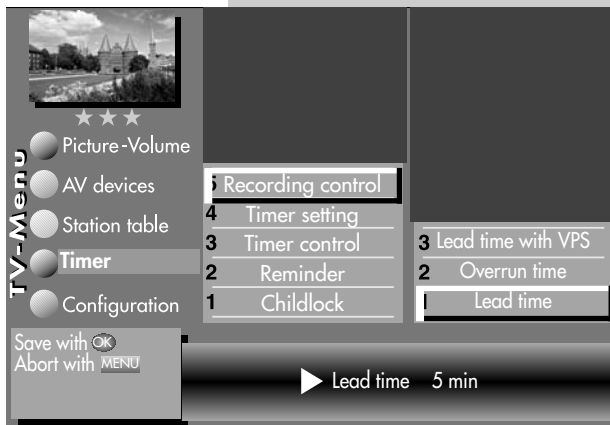
+

−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

16.2 Recording control

• Press the "**OK**" key to save the settings.

• Press the "**EXIT**" key to close the TV menu.

Application example:

You wish to record a programme received via DVB-T. The programme starts at 22:45 hours, ends at 23:40 hours and is broadcast on ITV.

Set up a "manual timer" as described in Section 17, "Special Functions 2" or set a timer with the aid of the EPG as described in Section 22.3 "Using EPG, Recording a Programme". The timer recording does not use VPS.

Set the lead time to 3 minutes and the overrun time to 10 minutes.

At the programmed start time minus the programmed lead time of three minutes, the TV set is either:

- switched on from the standby state (red LED lights) with the programme position for ITV selected, whereby the screen remains dark but the programme is sent via the EURO socket to your recorder, or

- switched to the programme position for ITV if it is already switched on.

At the programmed end of the recording (at 23:40 hours) the programme position for ITV remains selected for the programmed overrun time of 10 minutes.

☞ *It is not possible to switch to another programme position during the programmed lead and overrun times.*

17. Special Functions
Picture-in-Picture

On TV sets equipped with only one tuner, the picture-in-picture (PIP) function can only be used to display the picture from an AV device.

On TV sets with two tuners, the picture from another station or from an AV device can be displayed.

Activating the PIP function

- The **F1** key is pre-programmed with the picture-in-picture function.

- You can use the cursor control keys ◄ ► to move the PIP picture on the screen. The last position to which this picture was set is saved.

- By pressing the "**OK**" key, you can set the frame of the PIP picture to active (red) or inactive (white).

- The contents of the PIP picture can be changed only if its frame is active (red). If this is the case, you can use the numeric keys or the "**P+/P-**" rocker key to select a different AV programme position.

If you wish to display the picture from a connected AV device as a picture-in-picture, press the "**AV**" key and then use the **numeric keys** to select the desired AV device.

If you wish to display the picture from another station, use the numeric keys to select the desired programme position.

- Pressing the red key ⏺ swaps the contents of the two pictures.

- Pressing the green key ⏺ causes the PIP picture to expand to fill the screen and terminates the PIP function.

- To close the PIP picture, press the "**EXIT**" key.

☞ *If a recording has been programmed in the timer menu, activating the PIP function displays the programme which is being recorded.*

F1
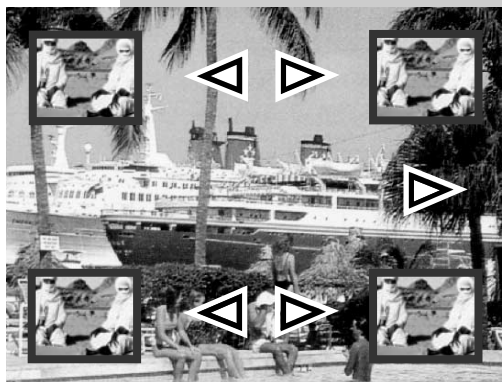
EXIT

17. Special Functions
Normal/Speech

F2

Special functions 2

1 Normal/Speech

9 Timer-Overview
0 Direct recording

Selection of "Normal" or "Speech" is described in Section 12.1, "Tone Settings".

In this menu, you can temporarily select "**Normal**" or "**Speech**". The selection remains active until you switch to another programme position, switch to standby mode or switch the TV set off completely.
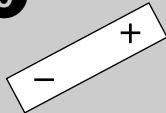
This setting has no effect of the setting described in Section 12.1, "Tone Settings".

17. Special Functions
Recording a programme with a timer

F2

9

F1

$+$ $-$

Recording	Yes
Reminder	No
Pr	---
Date	--.--.
Start	--:--
End	--:--
VPS	No

Recording device
Videorecorder

Change with – +.
◆ :select.
OK :save the timer.

Timer

Preview   17:23
– + Mon Tue Wed Thu **Fri** Sat Sun 29.04.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

If you wish to record a programme which your video recorder or DVD recorder cannot receive directly because it does not have a suitable tuner (such as DVB-T or DVB-C), you can use the "Timer overview" to make such programmes available to the recording device.

Setting a timer manually for a recording:

• Press the **F2** key. If you press **F2** briefly, the function programmed for **F2** (see Section 18. "Programming the function keys") is executed.
  If you hold down **F2** for about two seconds, all possible selections are displayed.

• If all possible selections are displayed, press the corresponding numeric key (in the example: **9**) to open the timer menu.

• If a timer already exists, press the **F1** key.

• The cursor is located at the left of the first line "Record". The number of subjects and sections

depends on the selected scope of operation.
Depending on the configuration of the TV set, the
various menu items may be displayed in a diffe-
rent order and numbered differently.
Use the **- +** key to set this menu item to "Yes".

- If desired, press cursor control key ▼ and use the
  - + key to activate the reminder func-
  tion. If the reminder function is active,
  a reminder window is displayed on the
  screen one minute before the start time
  programmed for the timer.

- Use the **numeric keys** to select the pro-
  gramme position (see the station table of
  the TV set) which is to make the pro-
  gramme available for recording.

- Press the cursor control key ▼ and use
  the **numeric keys** to enter the date,
  start time and end time of the pro-
  gramme you want to record..
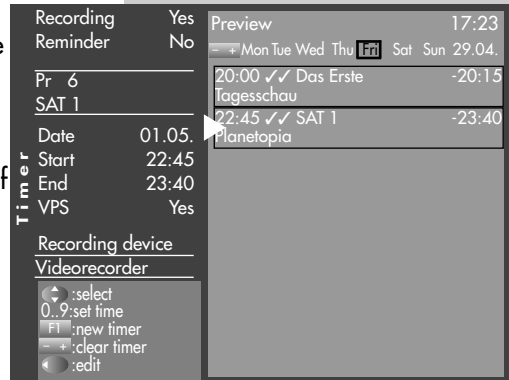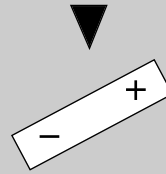
☞ *If you inadvertently enter a wrong time, you
  can delete it with the II key or overwrite it
  with the numeric keys.*

- Press the cursor control key ▼ and use the **- +**
  key to select the recording device connected to
  the TV set which is to be used for the recording.

- Press the "**OK**" key to save the programmed set-
  tings. The settings are stored in the timer memory.

- Press the "**EXIT**" key to close the TV menu.

Clearing a timer:

- Press the **F2** key.

- Press numeric key **9** to open the timer menu.

- Use the cursor control key to select the timer you
  wish to clear and press **II** to mark it for deletion.
  A window is displayed on the screen, asking
  whether you really want to clear this timer. Con-
  firm the intended action by pressing the appro-
  priate key.

Recording	Yes
Reminder	No
Pr 6	
SAT 1	
Date	01.05.
Start	22:45
End	23:40
VPS	Yes
Recording device	
Videorecorder	

:select
0..9:set time
F1 :new timer
:clear timer
:edit

Preview   17:23
- + Mon Tue Wed Thu Fri Sat Sun 29.04.
20:00 ✓✓ Das Erste   -20:15
Tagesschau
22:45 ✓✓ SAT 1   -23:40
Planetopia

If you wish to record the programme you are currently watching, you can start a direct (one-touch) recording to make the current programme available to a recording device connected to the EURO sockets.

<u>Starting a direct recording:</u>

F2

• Press the **F2** key.
If you press **F2** briefly, the function programmed for F2 (see Section 18. "Programming the Function keys") is executed.
If you hold down **F2** for about two seconds, all possible selections are displayed.

0

Recording	Yes
Reminder	No
Pr 6	
SAT 1	
Date	01.05.
Start	22:45
End	23:40
VPS	no
Recording device	
Videorecorder	

Change with **- +**
♦ :select
OK :save the timer

• Press numeric key **0** to open the timer menu window.
The timer menu window displays the programme position, the date and the EPG data for the current programme or for the next two hours.

• If there is more than one AV device connected to your TV set, use the cursor control key ▼ to select the proposed recording device and use the **- +** key to select the desired device.

• Press the "**OK**" key to save the settings.

☞ *On the recording device (e.g. video recorder), select the AV programme position and start the recording by pressing the appropriate button (REC, OTR, etc.).*

Opening the menu

Adjusting the picture format:

- Press the F3 key.
  If you press F3 briefly, the function programmed for F3 (see Section 18. "Programming the Function keys") is executed.
  If you hold down F3 for about two seconds, all possible selections are displayed.

- Press numeric key ❶ to select the function "Picture format menu".

- Use the "**P+/P-**" rocker key to select the desired function. After selection of a picture format, you can also adjust the zoom setting by pressing the ▬ **+** key within five seconds.

- The settings made here (except for the automatic zoom set in the TV menu) remain active until you switch to a different programme position or switch off the TV set.

Zoom / Picture position

After selecting the function "Zoom", you can adjust the zoom factor with the - + key. In addition, you can move the picture position 4) up and down on the screen in order, for example, to keep the station logo or the subtitles visible. To change the picture position, press and hold the F3 key until the selection is displayed. Then press numeric key ❷ and use the "P+/P-" rocker key to move the picture.

Standard 4:3

This is the standard setting for all programmes in the 4:3 picture format.
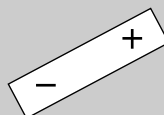
F3

Special functions 3 3

1 Picture format
2 Picture pos., vert.

❶

16:9 full picture   +
▶ Zoom
Standard 4:3   ─

17. Special Functions
Picture format

Panorama

With the aid of the panorama function, you can expand programmes broadcast in 4:3 format to fill the screen of a 16:9 TV set. The picture is expanded uniformly in the horizontal direction. You can also zoom the picture. The panorama function can be activated and deactivated in the menu item "General picture settings" of the menu "Picture and sound".
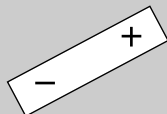
16:9 Full picture

This function serves to display pictures from external devices (such as a 16:9 video recorder) with the correct aspect ratio.

17. Special Functions
Picture Position

If desired, the picture can be shifted up or down in order, for example, to make subtitles visible or to hide "ticker" displays.

Adjusting the picture position:

- Press the **F3** key.
  If you press **F3** briefly, the function programmed for F3 (see Section 18., "Programming the Function keys") is executed.

- Press numeric key **2** to select the function "Picture position vertical".

- You can now use the **- +** key to move the picture up and down on the screen so that, for example, the station logo or the subtitles are visible.

☞ *This setting is not saved. If you wish to save it as a global setting, use the procedure described in Section 11 to set it.*
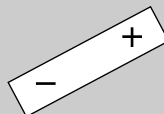
F3

2

Special functions 3

1 Picture format
2 Pic. form., vertikal

18. Programming the Function Keys

F2

Special functions 2

1 Normal/Speech

9 Timer overview
0 Direct recording

MENU

F1

▲ ▼

OK

The remote control has four function keys: F1, F2, F3 and AV. You can programme these function keys with any of the available functions.

If you press and hold any function key, a window with the available functions is displayed. The picture on the left shows the functions available for the F2 key.

Programming function key F1, F2, F3 or AV with a function

• Press the "**MENU**" key to open the TV menu.

• Press the red key ↻ to open the "Con-figuration" menu.

• Continue pressing the "**F1**" key until all options are displayed.

• Use the cursor control key ▼▲ or the correspon-ding numeric keys to select the desired "Func-tion for.." (in this example: F2).

• Press the "**OK**" key and then use the cursor con-trol key to select one of the available functions.

• Press the "**OK**" key to assign this function to the selected function key (the selected function is marked with "**X**").

• Press the "**EXIT**" key to close the TV menu.

☞ *If a function key is pro-grammed with a func-tion, this function can be called by briefly pres-sing the function key. Pressing and holding the function key displays a list of all available functions.*

F1↑

0	Function for F3
9	Function for F2
8	Function for F1
7	EURO sockets
6	DVB-C
5	DVB-T
4	Analog-TV
3	Country
2	Language
1	Operating

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

☐ Direct recording
X Timer overview
☐ anguage of prog
☐ Normal/Speech

↕ select
OK save and
clear.

▶ Function for F2   Timer overview

EXIT

50

19. Sound Settings
Mute Function

Opening the menu

In the menu "Sound settings", you can activate a two-stage mute function.

When this function is active, the volume in TV mode can be reduced in two stages with the mute key ⌧.

Activating the mute function

• Press the "**MENU**" key to open the TV menu.

• Press the red key 🔴 to open the "Configuration" menu.

• Press the "**OK**" key to move to the right side of the menu.

• Use the cursor control key ▲ or the corresponding numeric key (in the example: (**3**)) to select the menu item "Sound settings".

• In the setting window, use the **- +** key to set the function "Mute (2-stage)" to "On".

• Press the "**OK**" key to save the setting.

• Press the "**EXIT**" key to close the TV menu.
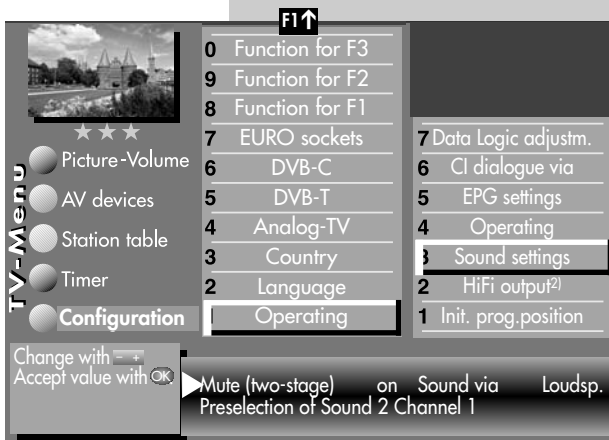
In normal TV mode, the mute key ⌧ is used as follows:

• Press it once to reduce the volume by 12 scale divisions.

• Press it again within five seconds to reduce the volume to "00".

• Pressing the ⌧ key once again restores the volume to its original level.

During films for the blind, the scenes are described in the dialogue intervals. Under "**Dual channel**", select "Audio 2" if you want to receive films for the blind (with audio descriptions).

MENU

🔙

OK

3

F1↑

0	Function for F3	
9	Function for F2	
8	Function for F1	
7	EURO sockets	7 Data Logic adjustm.
6	DVB-C	6 CI dialogue via
5	DVB-T	5 EPG settings
4	Analog-TV	4 Operating
3	Country	3 Sound settings
2	Language	2 HiFi output[2)
	Operating	1 Init. prog.position

★ ★ ★

⚪ Picture -Volume
⚪ AV devices
⚪ Station table
⚪ Timer
⚪ **Configuration**

TV-Menü

Change with **- +**
Accept value with OK ▶ Mute (two-stage)   on   Sound via   Loudsp.
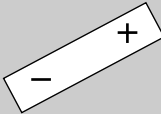Preselection of Sound 2 Channel 1

OK

EXIT

51

19.1 Data Logic Settings

Data Logic Mode 1 / Mode 2

Factory setting is **Mode 1**.

If the recording is stopped by the Data Logic Videorecorder (self-dependent, 5-10sec. after the start of the recording), switching to **Mode 2** could solve this problem.

MENU

⤺

▶

8

OK

	F1⤒	
	0 Function for F3	
	9 Function for F2	
★ ★ ★	**8** Function for F1	**8** Data Logic adjustm.
Picture-Volume	**7** EURO sockets	**7** CI dialogue via
AV devices	**6** DVB-C	**6** EPG settings
Station table	**5** DVB-T	**5** Display configuration
Timer	**4** Analog-TV	**4** Operating
Configuration	**3** Country	**3** Sound settings
	2 Language	**2** HiFi output[2)]
	Operating	**1** Init. prog.position

TV-Menu

Change with − +
Accept value with OK

▶ Data Logic   mode 2

+
−

OK

EXIT

20. EPG

EPG (**E**lectronic **P**rogram **G**uide) is an electronic TV guide covering all major channels.

The guide may be made up of details from **NexTView**[8] and/or **DVB-SI**.

The **NexTView**[8] information is broadcast by various channels and also includes information for other broadcasting organizations.

DVB-SI (**D**igital **V**ideo **B**roadcasting-**S**ervice **I**nformation) is a service provided by different broadcasters. Programme details are broadcast digitally by each broadcaster exclusively for those programmes it offers.

NexTView[8] and **DVB-SI** are similar in principle, but their content may differ in the detail offered.

20.1 Activating the EPG

The function is activated by pressing the button marked "EPG".

NexTView details[8]

Before NexTView[8] details can be received, a new programme slot must be created in the menu. If the menu does not contain a slot for NexTView[8], the following text applies.

A message will appear for all slots programmed to receive NexTView:

> ☞ Accept this programme as an EPG programme ?
> ⏱ **Yes**
> Any other key close the window.

In this way, the TV asks whether this slot should be used to compile the information for the EPG programme guide.

EPG

8) NexTView is transmitted by the following broadcasting organizations:
D and **A**: Kabel1,
CH SF1, TSR1, TSI1, TV5

F: . . . . . .Canal+, M6, TV5

Status as of 18 Aug 2006

Not possible with an external receiver !

20.1 Activating the EPG

MENU

⮌

OK

6

Pressing the green key ⓔ for yes activates the slot in order to receive NexTView. The message will not appear again.

If you know the NexTView[8] slot, you can also enter it using the numeric keys in the TV menu.

You can overwrite existing programme slot numbers or delete them with the **II** key.

DVB-SI details

To receive DVB-SI data, no slot in the TV menu is needed.

F1↑

★★★	0 Function for F3		
Picture-Volume	9 Function for F2		
AV devices	8 Function for F1	8 Data Logic adjustm.	
Station table	7 EURO sockets	7 CI dialogue via	
Timer	6 DVB-C	6 EPG settings	
Configuration	5 DVB-T	5 Display configuration	
	4 Analog-TV	4 Operating	
	3 Country	3 Sound settings	
	2 Language	2 HiFi output[2]	
	Operating	1 Init. prog.position	

TV-Menu

Change with − +
Accept value with ⓞⓚ
▶EPG   NextView & DVB-SI Pr selection in stationtable
NextView prog.   Kabel 1   retain
DVB-SI selection   TV

Factory EPG settings:

- EPG NexTView & DVB-SI
- NexTView programme slot - - - -
- DVB-SI selection TV
- Prog. selection in the channel table all free slots***)**

*) In the menu, "retain" is displayed, i.e. when you make an adjustment, this change is displayed in plain text after it is confirmed by selecting "OK" in the menu. "Retain" is then displayed in the menu as an indication that the previously confirmed setting has been retained.

F1↑

★★★	0 Function for F3		
Picture-Volume	9 Function for F2		
AV devices	8 Function for F1	8 Data Logic adjustm.	
Station table	7 EURO sockets	7 CI dialogue via	
Timer	6 DVB-C	6 EPG settings	
Configuration	5 DVB-T	5 Display configuration	
	4 Analog-TV	4 Operating	
	3 Country	3 Sound settings	
	2 Language	2 HiFi output[2]	
	Operating	1 Init. prog.position	

TV-Menu

Change with − +
Accept value with ⓞⓚ
▶EPG   DVB-SI Pr selection in stationtable
                                             retain
DVB-SI selection   TV

In countries where NexTView data[8] is unavailable, the menu setting should read "EPG DVB-SI" as illustrated.
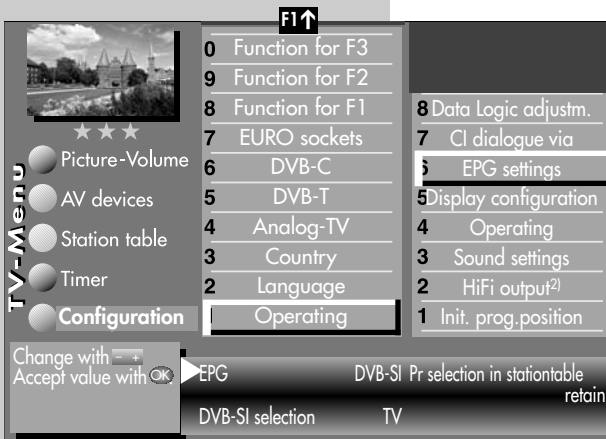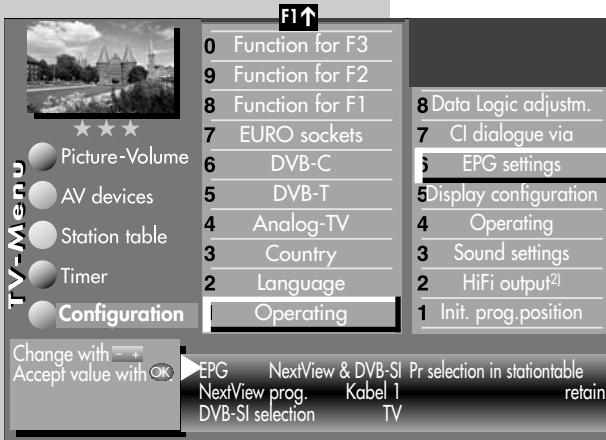
Not possible with an external receiver !

20.2 Collecting EPG data

NexTView data[8)] is transmitted by various broadcasting organizations.

DVB-SI data is broadcast by each channel corresponding to its own content.

Information may therefore correspondingly vary.

Switch on your TV, so that EPG data can be compiled and/or updated. While data is being compiled the green LED is lit.

TV sets with one receiver unit:

- If a NexTView slot[8)] has been set: Switch the TV to standby mode, using the mains key on your remote.

- If no NexTView slot[8)] has been set and only DVB-SI details can be received: switch the set to standby.

☞ ***After switching on the TV, data compilation will continue stop until it is switched to standby again.***

TV set with two tuners:

The TV set collects the EPG data with the aid of the second tuner.

Special notes:

The TV set's channel table lists all available channels in the programme guide, provided you do not make another selection in the channel table menu.

Channels broadcasting on a time-shared basis – e.g. arte/Kinderkanal – must be saved in separate programme slots (see 24). If you include all channels in the EPG, you won't be able to see very far ahead.

You can decide which channels should appear in the EPG programme guide.

As a rule, the collection process gathers data for all free channels. The following options are available to exclude selected channels from the EPG programme guide:

Solution 1:

- Press the MENU key. The TV menu appears on the screen.

- Press the white key ⓟ. The menu channel table appears with the active programme slot selected.

- Press F2 to permit editing of the channel list.

- Press ▶ to switch to the menu page.

- Using ▲ and ▼ select "Include channel in EPG" and dedeselect rows marked (x) with OK.

- To exclude other channels from the EPG programme guide, use ◀ ▶ ▲ and ▼ to select the channel and repeatthe procedure.

Not possible with an external receiver !

20.2 Collecting EPG data

Solution 2:

• Press the MENU key ⑨. The TV menu appears on the screen.

• Press the white key. The menu channel table appears with the active   pro-gramme slot selected.

• Follow the steps described under "24. Sort channels" to sort and save your favourite channels so that they appear at the top of the list, for example sort 1-50 and save them.

• Select "EPG Settings" from the Configuration menu and under "Prog. select. in the channel table", select "Channels 1-50" using the -+ key and save by pressing OK.

The collection process will be halted if:

- videotext is opened.

- a recording has been programmed under AV Recording.

- a preset recording is running or will begin in an hour.

- the videotext subtitle function is active.

If the TV is switched to standby during the collection process, the green LED will appear to indicate that the process is still running.

Mit externem Receiver nicht möglich !

Once all of the EPG data have been collected, briefly pressing the "EPG" key displays the EPG with the current programme on the selected programme position highlighted.

The following keys have special functions in EPG mode:

⬅➡ Select a programme.

OK View the selected programme or set a reminder for it.

◀▶ Scroll to earlier or later programmes.

0-9 Enter a time for display of the programmes starting at or after this time.

F1 Back to the previous programme of the selected station.

F2 Show all following programmes of the selected station.

F3 Forward to the following programme of the selected station.

blue: Select all programmes.

yellow: Programme selection on the basis of the selected user and his interests.

white: User can set interests.

green: Select user (father, mother, teenager, child).

red: Make the selected programme available for recording (see page 60).

EXIT: Back to the TV picture.

+ −: Scroll by days trough the EPG

EPG

EXIT

Now showing	11:38
− + Mo Di Mi Do Fr Sa So	29.04.

11:15   Hessen 3 ▬▬▬▬▬ -11:40
Schleswig-Holstein Magazin

11:20   KinderKan. ▬▬▬▬ -11:45
Die Biene Maja

11:25   DSF ▬▬▬ -11:55
Dauerwerbesendung

11:30   RTL ▬▬ -12:00
Unsere Klinik

11:30   West 3 ▬▬▬ -12:00
Bilder aus Südtirol

Aktuelles aus Schleswig_Holstein

All programmes
Selection
Interest
Users
Record
⬍⬌ select.
0...9 select time.
OK view.
F1 / F2 / F3
Programmes select.

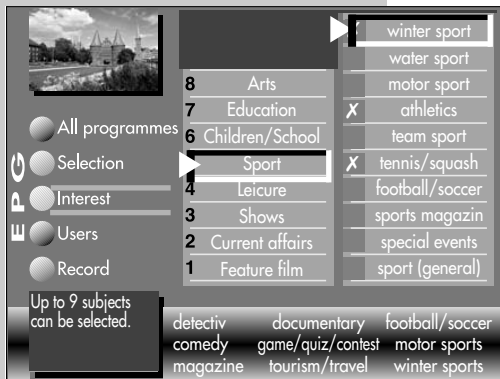# Not possible with an external receiver !

Selecting a programme and viewing or setting a reminder

In the EPG, you can select a programme with the cursor control key.

- Press the "**OK**" key in order to
  - view the programme if it is already running, or
  - set a reminder for it if it has not yet started. A green check mark is displayed after the start time.

- Press the "**TEXT**" key to display and hide a description of the programme.
  This may not be possible for some programmes.

Setting a user profile

By pressing the green key several times, it is possible to set up the EPG for the current user (father, mother, teenager, child).

Setting interests

Each user can set up the EPG to reflect his or her special interests.

		winter sport
		water sport
8	Arts	motor sport
7	Education	✗ athletics
6	Children/School	team sport
	▶ Sport	✗ tennis/squash
4	Leicure	football/soccer
3	Shows	sports magazin
2	Current affairs	special events
1	Feature film	sport (general)

All programmes
Selection
Interest
Users
Record

Up to 9 subjects can be selected.

detectiv   documentary   football/soccer
comedy   game/quiz/contest   motor sports
magazine   tourism/travel   winter sports

- Press the white key ⑦.

- Use the cursor control key or the corresponding numeric key to select one of the subjects.

- Use the cursor control key ▶ to move to the other side.

- Use the cursor control key or the corresponding numeric keys to select one of the subjects and mark **X** it by pressing the "**OK**" key.

☞ *Up to nine subjects of interest can be marked for each user.*

- You can delete a mark **X** by pressing the "**OK**" key again.

- Press the red key ⑤ to save the selections.

Not possible with an external receiver !

Programme Information (Now Showing: ..)

After switching to a channel, a box is displayed at the bottom of the screen as shown in the picture.

This box contains the following information:

- Channel number (in this example: Pr4).

- Audio mode (stereo/mono).

- Start/end time of the programme

- The time bar shows the elapsed programme time.

- Broadcasting station

- Programme title

- Date and time

- Time details and title of the following programme

Press the green key ⊚ to view additional information about the programme currently showing, provided the respective station broadcasts such information.

Repeatedly press the green key ⊚ to view additional information about the following programme, provided the respective station broadcasts such information.

This information can also be accessed while a programme is running.

To hide the information, press "EXIT".

Pr 4   Stereo   13:45 - 14:40
RTL   Skispringen: Top 50
04.01.06   11:35:12   14:40 - 15:00 Skispringen: Die Entscheidung

Erster Durchgang des dritten Springens der Vierschanzentournee auf der Bergisel-Schanze in Innsbruck

Pr 4   Stereo   13:45 - 14:40
RTL   Skispringen: Top 50
04.01.06   11:35:12   14:40 - 15:00 Skispringen: Die Entscheidung

EXIT

Not possible with an external receiver !

Selecting a programme for recording:

If you have a video recorder with the dialogue system, the EPG permits you to start a recording by pressing a single key.

EPG

- Press the "**EPG**" key to open the EPG.

- Use the cursor control key to select the programme you wish to record.

▲ ▼

If a **video recorder with dialogue system** is connected

Recording	Yes
Reminder	No
Pr 1	
Das Erste	
Date	01.05.
Start	22:45
End	23:40
VPS	no
Recording device	
Videorecorder	

Change with — +
◆ :select
OK :save the timer

(see also Section 25):

- Switch on the video recorder.

- Insert a cassette.

- Press the red key ⏺ on the remote control.

If a **normal video recorder** is connected:

- Switch on the video recorder.

- Insert a cassette.

- Press the red key ⏺ on the remote control to programme the TV timer (see also "Direct recording (OTR)").

↩

- On the AV programme position of the video recorder, programme a timer with the data and time of the programme which will be provided by the TV timer.

Not possible with an external receiver !

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21. Setting the Country and Language

Opening the menu
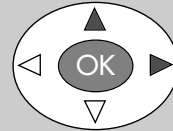
MENU

Selecting the language in the TV menu

You can select any of the available languages for the TV menu. All texts in the menu and in the help screen (Information) are then displayed in the selected language.

Setting the country

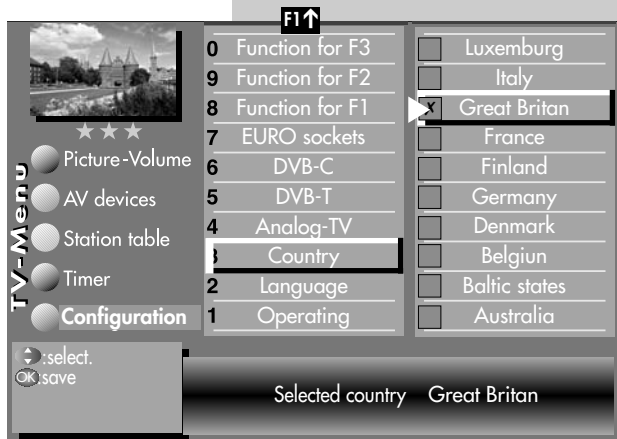After installation of the TV set, you must enter the country in which it is installed (such as Great Britain) in order to assign certain basic settings (such as the channel assignments, the order in which the stations are stored, etc.).

Setting language and country:

• Press the "**MENU**" key to open the TV menu.

• Press the red key 🔴 to open the menu "Configuration".

• Use the corresponding **numeric keys** to select "Language" or "Country".

• Press the "**OK**" key and then use the cursor control key to select the desired language or country.

• Press the "**OK**" key to confirm your selection.
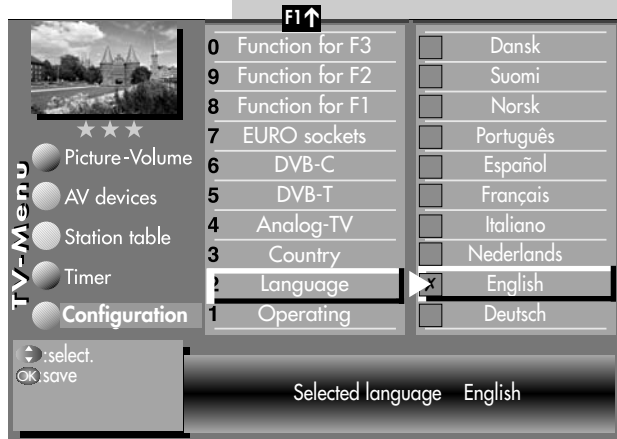
• Press the "**EXIT**" key to close the TV menu.

	F1↑	
	0 Function for F3	Dansk
	9 Function for F2	Suomi
★ ★ ★	8 Function for F1	Norsk
Picture-Volume	7 EURO sockets	Português
AV devices	6 DVB-C	Español
	5 DVB-T	Français
Station table	4 Analog-TV	Italiano
Timer	3 Country	Nederlands
	2 Language	☒ English
Configuration	1 Operating	Deutsch

↕:select.
OK:save

Selected language   English

	F1↑	
	0 Function for F3	Luxemburg
	9 Function for F2	Italy
★ ★ ★	8 Function for F1	☒ Great Britan
Picture-Volume	7 EURO sockets	France
AV devices	6 DVB-C	Finland
	5 DVB-T	Germany
Station table	4 Analog-TV	Denmark
Timer	3 Country	Belgiun
	2 Language	Baltic states
Configuration	1 Operating	Australia

↕:select.
OK:save

Selected country   Great Britan

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

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22. Setting Stations
Setting the reception mode

This TV set is capable of operating in three different reception modes:

Analogue TV:

The broadcasting technology which has been used for many years. The signals can be received via a rooftop antenna or a cable.

DVB-T:

The new digital broadcasting technology whose signals can be received via an existing (analogue) rooftop antenna or an indoor antenna (depending on the strength of the available signal). For more details, please consult your local TV dealer or search for "DVB-T" in the Internet.

DVB-C:

The new digital broadcasting technology whose signals are received via a cable connection. For further details, please consult your local cable provider or TV dealer or search for "DVB-C" in the Internet.

MENU

Select the reception mode to match the broadcasting technology available in your area.

Setting the reception mode

- Press the "**MENU**" key to open the TV menu.

- Press the red key ⤺ to open the menu "Configuration".

- Use the corresponding **numeric key** to select the appropriate reception mode "Analogue TV", "DVB-T" or "DVB-C".

4 5 6

F1 ↑

0	Function for F3	
9	Function for F2	
8	Function for F1	
7	EURO sockets	
6	DVB-C	
5	DVB-T	**5** General settings
4	Analog-TV	**4** Manual search
3	Country	**3** Automatic search
2	Language	**2** Search settings
1	Operating	**1** Antenna

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

Start station search with ⊙⊙.

▶ Start station search

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

22.1 Setting Stations
TV-Standard [2] for analogue stations

Opening the menu

Various TV standards for picture and sound are used in different countries. If the wrong TV standard is selected, you will not be able to hear the sound, or it will be distorted. The TV standard "L" also uses a different standard for transmission of the picture. The TV standard must therefore be set before you execute a station search.

The TV set is set in the factory to the TV standard B/G.

Setting the TV standard [2]

- Press the "**MENU**" key to open the TV menu.

- Press the red key ® to open the menu "Configuration".

- Use the corresponding numeric key (in the example: ❹) to select "Analogue TV".

- The menu item "Search settings" is already selected.

- Press the "**OK**" key and, in the setting window, use the ‒ + key to select the desired TV standard.

- Press the "**OK**" key to confirm your selection.

- Press the "**EXIT**" key to close the TV menu.

MENU

↩

❹

F1 ↑

0	Function for F3
9	Function for F2
8	Function for F1
7	EURO sockets
6	DVB-C
5	DVB-T
	Analog-TV
3	Country
2	Language
1	Operating

TV-Menu

- Picture-Volume
- AV devices
- Station table
- Timer
- **Configuration**

2 Terrestrial station search
 Search settings[2]

Change with ‒ +
Accept value with OK

▶ TV standard   B/G

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

MENU

⤶

4   **2**

OK
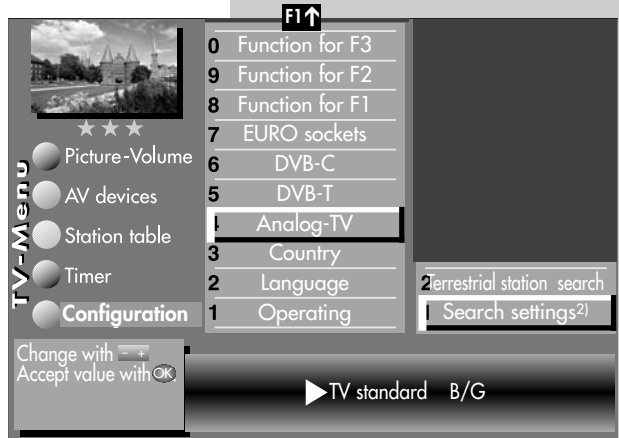
Terrestrial station search

The terrestrial station search automatically searches the entire range of available reception frequencies for stations. All stations which are found are placed in the station table which is displayed at the end of the search operation. If you are not satisfied with the order in which the stations are displayed, you can move them to other positions or delete unwanted stations
(see Section 24., "Sorting stations".

Executing a terrestrial station search

F1↑

0	Function for F3
9	Function for F2
8	Function for F1
7	EURO sockets
6	DVB-C
5	DVB-T
	Analog-TV
3	Country
2	Language
1	Operating

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

2 Terrestrial station search
1 Search settings [2]

Start station search with OK .

▶ Start stadion search

• Press the "**MENU**" key to open the TV menu.
• Press the red key ⤶ to open the menu "Configuration".
• Use the corresponding **numeric key (**in the example: (**4**) to select "Analogue TV".
• Use the corresponding numeric key (in the example: (**2**) to select "Terr. station search".

• Press the "**OK**" key and, in the setting window, confirm the menu item "Start station search" by pressing the "**OK**" key.
• The TV set starts to search for available stations. A station table with the newly found stations is displayed on the left half of the screen. If a station table already existed before the search, the newly found stations are automatically appended after the last existing station.
• After completion of the search, all stations which have been found are sorted.
• You can delete any unwanted stations from the station table by selecting them with the cursor control key and pressing the **II** key.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

22.1 Setting Stations
Colour standard for analogue stations

Opening the menu

The TV set will normally detect the colour standard (PAL, SECAM, NTSC, NTSC44, PAL60, PAL M) automatically.

If this automatic selection does not provide satisfactory results (which should happen only rarely), you can select the colour standard manually for each programme position.

The colour standard is set in the factory to "Automatic".

Setting the colour standard

- Press the "**MENU**" key to open the TV menu.

- Press the white key ⑨ to open the station table.

- Press the **F2** key to enable editing of the station table.

- Use the cursor control key to select the programme position whose colour standard you wish to change.

- Press the cursor control key ▶ to move to the left column.

- Use the corresponding numeric key (in the example: **❾**) to select "Colour standard".

- Use the **- +** key to select the desired colour standard, or to step through the available colour standards until the picture is displayed clearly.

- Press the "**OK**" key to confirm your selection.

- Press the "**EXIT**" key to close the TV menu.

MENU

⑨

F2

▶

❾

	F1↑	
	0010 Hessen 3	0 Sound corrections
	0009 Südwest	9 Colour standard[3][7]
	0008 MDR	8 Picture quality
★ ★ ★	0007 PRO 7	7 Picture correct.
Picture-Volume	0006 RTL 2	6 Enter logo
AV devices	0005 RTL	X Station contained in EPG
Station table	0004 SAT 1	4 CA module[5]
Timer	0003 Bayern 3	3 Signal quality[5]
	0002 ZDF	2 DVB-prog. info[5]
Configuration	0001 ARD	1 Frequency/channel[7]

TV-Menu

Change with **- +**
Accept value with OK

▶ Colour standard   SECAM

━ +

OK
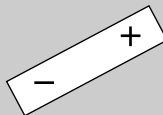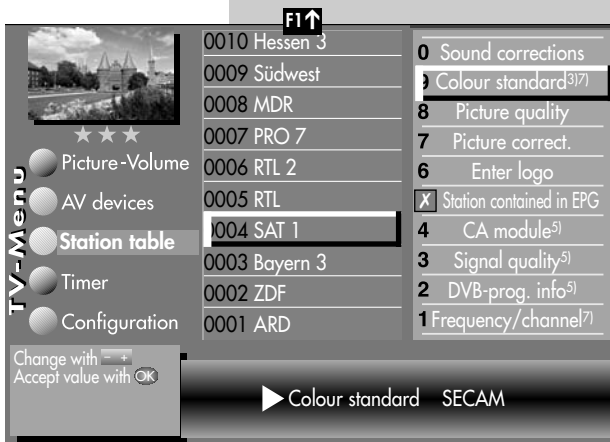
EXIT

22.2 Setting Stations
DVB-T, Antenna suply voltage

With this menu item, you switch the supply voltage for a DVB-T antenna on or off.

On: The antenna supply voltage is constantly on (Select this setting if you have a TV-Set with two DVB-T-Tuners but only one active antenna or if you receive also analog stations via the active antenna).

Switched: The antenna supply voltage is only active for DVB-T-programmes (e.g. for controlling a relay to switch between DVB-T-antenna and broadband cable, if they coexist).

Off: For a passive antenna or a community antenna

Setting the antenna supply voltage

MENU

• Press the "**MENU**" key to open the TV menu.

• Press the red key to open the "Configuration" menu.

• Use the corresponding numeric key (in the example: **5**) to select the function "DVB-T".

OK

	F1↑		
	0 Function for F3		
	9 Function for F2		
★ ★ ★	8 Function for F1		
Picture-Volume	7 EURO sockets		
AV devices	6 DVB-C		
Station table	5 DVB-T	5 General settings	
Timer	4 Analog-TV	4 Manual search	
Configuration	3 Country	3 Automatic search	
	2 Language	2 Search settings	
	1 Operating	1 Antenna	

TV-Menu

Change with - +
Accept value with OK

▶ Supply voltage   on

• Press the "**OK**" key and, in the setting window, use the **- +** key to select the antenna supply voltage.

• Press the "**OK**" key to save the new settings.

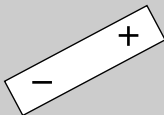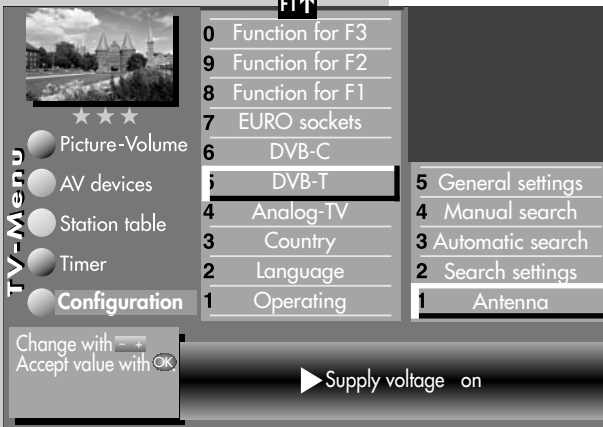• Press the "**EXIT**" key to close the TV menu.

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

22.2 Setting Stations
Automatic DVB-T station search

The DVB-T station search operation searches the entire frequency band for **TV and radio stations**. All stations which are found are placed in separate TV and radio station tables. See Section 29. for details of DVB radio mode.
If you are not satisfied with the order in which the stations are displayed, you can move them to other positions or delete unwanted stations (see Section 24., "Sorting stations".

MENU

5

3

Executing the automatic station search

- Press the "**MENU**" key to open the TV menu.
- Press the red key ⑤ to open the menu "Configuration".
- Use the corresponding **numeric key** (in the example: **5**) to select " DVB-T".
- In the setting window "Antenna", you can switch the supply voltage for an antenna on or off with the **- +** key.

Normal setting = Off !

The setting "On" may be used only if you have an active **indoor antenna** which needs a supply voltage for its internal amplifier.

- Use the corresponding numeric key (in the example: **2**) to select "Search settings".
- In the setting window, use the **- +** key to select one of the following:

All = search for all stations.

FTA only = search for only unencrypted (free-to-air) stations.

FTA +CICAM = search for FTA stations and stations which can be decoded with a CI module (accessory).

- Press the "**OK**" key and use the corresponding numeric key (in the example: **3**) to select "Automatic search".
- Press the "**OK**" key to start the search. The TV set now searches for available stations.

F1↑		
0	Function for F3	
9	Function for F2	
8	Function for F1	
7	EURO sockets	
6	DVB-C	
5	DVB-T	5 General settings
4	Analog-TV	4 Manual search
3	Country	3 Automatic search
2	Language	2 Search settings
1	Operating	1 Antenna

TV-Menu
○ Picture-Volume
○ AV devices
○ Station table
○ Timer
● **Configuration**

Start station search with OK .

▶ Start station search

(**OK**)

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
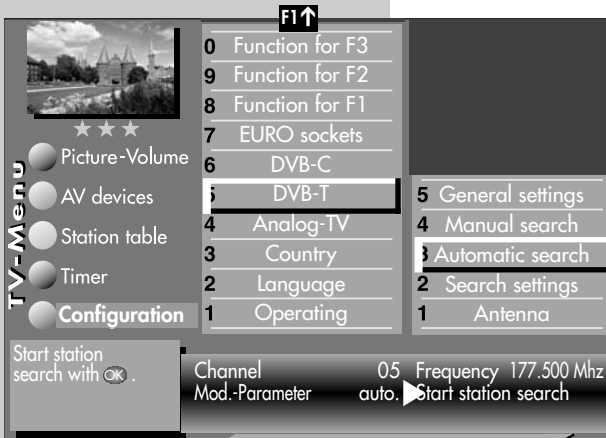
For a manual station search, you must know the channel number or the frequency of the station you wish to find.

Executing the manual search

MENU

- Press the "**MENU**" key to open the TV menu.

↩

- Press the red key ↩ to open the menu "Configuration".

5

- Use the corresponding **numeric key** (in the example: **5**) to select " DVB-T".

- In the setting window "Antenna", you can switch the supply voltage for an antenna on or off with the **- +** key (see also page 66).

4

- Use the corresponding numeric key (in the example: **2**) to select "search settings".

F1↑			
0	Function for F3		
9	Function for F2		
8	Function for F1		
7	EURO sockets		
6	DVB-C		
Picture-Volume	**5**	**DVB-T**	5 General settings
AV devices	4	Analog-TV	4 Manual search
Station table	3	Country	3 Automatic search
Timer	2	Language	2 Search settings
Configuration	1	Operating	1 Antenna

- In the setting window, use the **- +** key to select "All", "FTA only" or "FTA + CICAM" (see also page 67).

- Press the "**OK**" key and use the corresponding numeric key (in the example: **4**) to select "Manual search".

Start station search with ⊙K.

Channel 05 Frequency 177.500 Mhz
Mod.-Parameter auto. ▶Start station search

- In the setting window, use the **numeric keys** to enter the channel number or the frequency.

Transmission 8k Mode Modulation64 QAM
▶d. Parameter manuell Guard Intervall 1/8
Code rate 3/4 Start station search

If you know further data of the desired station, select the menu item "Mod. parameter" and use the **- +** key to change the setting there to "Manual". You can then enter further data.

- After input of the station data, use the cursor control key to select the menu item "Station search" and press the "**OK**" key to confirm your selection.
The station settings are saved.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

22.3 Setting Stations

Automatic DVB-C station search

Opening the menu

The DVB-C station search operation searches the entire frequency band for **TV and radio stations**. All stations which are found are placed in separate TV and radio station tables. See Section 29 for details of DVB radio mode.
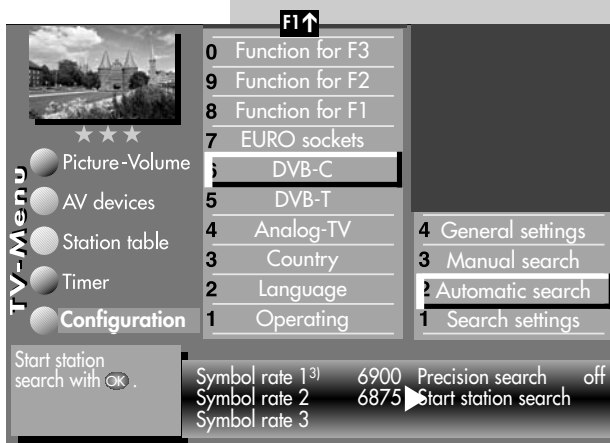
If you are not satisfied with the order in which the stations are displayed, you can move them to other positions or delete unwanted stations (see Section 24., "Sorting stations".

Executing the automatic search

- Press the "**MENU**" key to open the TV menu.

- Press the red key ⬑ to open the menu "Configuration".

- Press the numeric key **6** to select "DVB-C".

- The cursor is now on the menu line "Search settings".

- Press the "**OK**" key and, in the setting window, use the **- +** key to select "All", "FTA only" or "FTA +CICAM" (see also page 67).

- Press the "**OK**" key and then press the corresponding numeric key (in the example: **2**) to select "Automatic search". The cursor is now on the line "Symbol rate 1".

☞ *The most common symbol rates are already preset. Usually these settings do not need to be modified. If the symbol-rate settings do not yield the desired result, set other symbol rates and save them by pressing "OK". Ask your cable operator for details.*

- Press the cursor control key ▶ to select the menu line "Start station search".

- Press the "**OK**" key to start the search. The TV set now searches for available stations.

MENU

⬑

6

F1↑

0	Function for F3	
9	Function for F2	
8	Function for F1	
7	EURO sockets	
6	DVB-C	
5	DVB-T	
4	Analog-TV	4 General settings
3	Country	3 Manual search
2	Language	2 Automatic search
1	Operating	1 Search settings

TV-Menu
- Picture-Volume
- AV devices
- Station table
- Timer
- **Configuration**

★ ★ ★

Start station search with ⊛ .

Symbol rate 1[3)]	6900	Precision search off
Symbol rate 2	6875 ▶	Start station search
Symbol rate 3		

OK

2

▶

OK

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
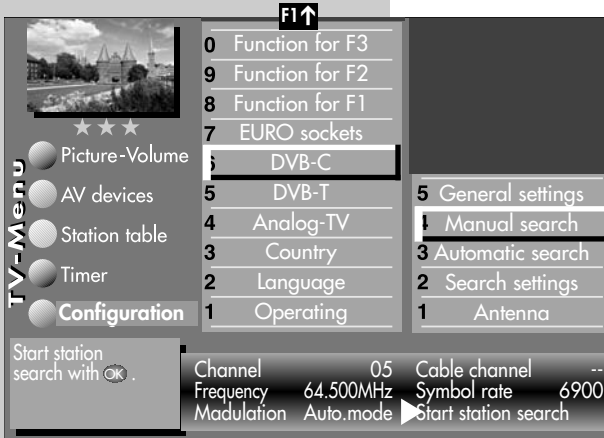
MENU

↩

6

For a manual station search, you must know the channel number or the frequency of the station you wish to find.

Executing the manual search

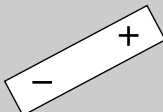• Press the "**MENU**" key to open the TV menu.

• Press the red key ↩ to open the menu "Configuration".

• Use the corresponding **numeric key** (in the example: **6**) to select "DVB-C".

F1↑

0	Function for F3
9	Function for F2
8	Function for F1
7	EURO sockets
6	DVB-C
5	DVB-T
4	Analog-TV
3	Country
2	Language
1	Operating

★ ★ ★

Picture-Volume

AV devices

Station table

Timer

Configuration

TV-Menu

5	General settings
4	Manual search
3	Automatic search
2	Search settings
1	Antenna

• The cursor is on the menu line "Search settings".

• Press the "**OK**" key and, in the setting window, use the **-** **+** key to select "All", "FTA only" or "FTA +CICAM" (see also page 67).

• Press the "**OK**" key and use the corresponding numeric key (in the example: **3**) to select "Manual search".

• The cursor points to "Channel".

Start station search with OK .

Channel	05	Cable channel	--
Frequency	64.500MHz	Symbol rate	6900
Madulation	Auto.mode ▶	Start station search	

OK

3

- +

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

• In the setting window, use the numeric keys to enter the channel number (or special channel number) or the frequency of the desired station.

If you know further data of the desired station, select the menu items "Modulation" and "Symbol rate" and use the **-** **+** key or the numeric keys to change the settings there.

• After input of the station data, use the cursor control key to select the menu item "Station search" and press the "**OK**" key to confirm your selection.
The station settings are saved.

23. Station Logo

Opening the menu

With the aid of the VPS signal, a station logo with a maximum length of 15 characters is automatically assigned to each station.

If this automatic assignment does not work, or if you want to use a different logo, you can change the setting manually.

Setting the station logo

- Press the "**MENU**" key.

- Press the white key ⑨ to open the "station table".

- Press the **F2** key to enable editing of the station table.

- Select the programme position whose logo you wish to change.

- Press the cursor control key ▶ to move to the other column.

- Use the corresponding numeric key (in the example: ⑥) to select "Logo input".

- The various letters and digits can be selected with the aid of the cursor control key ◀ ▶.

- You can delete single characters with the red key or the complete logo with the **II** key.

- Set the desired logo by repeatedly pressing the various numeric keys. The lowercase letters are displayed after the uppercase letters.

- Press the "**OK**" key to save the new logo.

- Press the "**EXIT**" key to close the TV menu.

MENU

⑨

F2

▶

6

F1↑		

0010 Hessen 3
0009 Südwest
0008 MDR
0007 PRO 7
0006 RTL 2
0005 RTL
0004 SAT 1
0003 Bayern 3
0002 ZDF
0001 ARD

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

II clear all
● delete character.
◀ ▶ select position.
OK save
MENU abort

0 Sound corrections
9 Colour standard[3)7)]
8 Picture quality
7 Picture correct.
5 Enter logo
X Station contained in EPG
4 CA module[5)]
3 Signal quality[5)]
2 DVB-prog. info[5)]
1 Frequency/channel[7)]
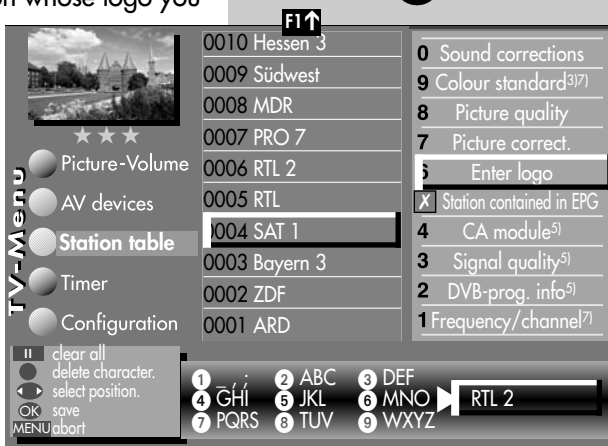
1 , ; 2 ABC 3 DEF
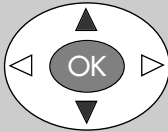4 GHI 5 JKL 6 MNO ▶ RTL 2
7 PQRS 8 TUV 9 WXYZ

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
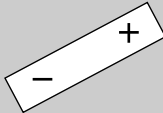
24. Sorting Stations

You can move, copy and delete individual stations or groups of stations within the station table.

Moving, copying and deleting stations

MENU

- Press the "**MENU**" key to open the TV menu.

- Press the white key 🕪 to open the station table.

- Use the **cursor control key** to select the programme position which is to be moved, copied or deleted. You can also mark a contiguous block of positions by moving the cursor to the programme position at the end of the block.

◁ OK ▷

- Briefly press the **OK** key to mark the programme position (in the example: position 008). Press and hold the **OK** key to mark all programme positions in the previously selected block.

F1↑		F1↑	
0010	Hessen 3	0020	BR alpha
0009	Südwest	0019	3 SAT
0008	MDR	0018	Kinderkan.
0007	PRO 7	0017	FRANKEN
0006	RTL 2	0016	TELE-5
0005	RTL	0015	9LIVE
0004	SAT 1	0014	SuperRTL
0003	Bayern 3	0013	Kabel 1
0002	ZDF	0012	VOX
0001	ARD	0011	West 3
F3↓		F3↓	

★ ★ ★

Picture-Volume

AV devices

Station table

Timer

Configuration

TV-Menu

⬥ : select
F2 :edit programme attributes or station list.

Select station with OK (hold down to select a block). Select new position with the cursor
– + :move/copy, II :delete.
Delete all marks with ⬤.

- To copy this programme position, use the cursor to select the programme position before or after which the selected station is to be inserted. If the station(s) you have selected were previously in programme positions with lower numbers than the insertion position, they are inserted before this position; if they previously had higher numbers, they are inserted after this position.

- To move the selected station(s), select the programme position to which the station(s(is/are to be moved.

+
−

- Use the - + key to copy (+) or move (-) the station(s).

- To delete a station, press the II key.

EXIT

- Press the "**EXIT**" key to close the TV menu.

25. Registering AV Devices

Opening the menu

i **AV** (audio/video) **devices** are external devices which deliver video and/or audio signals (such as video recorders, DVD players, DVD recorders, etc.) and which can be connected to TV sets.

All commonly available AV devices are listed in the menu "AV devices".

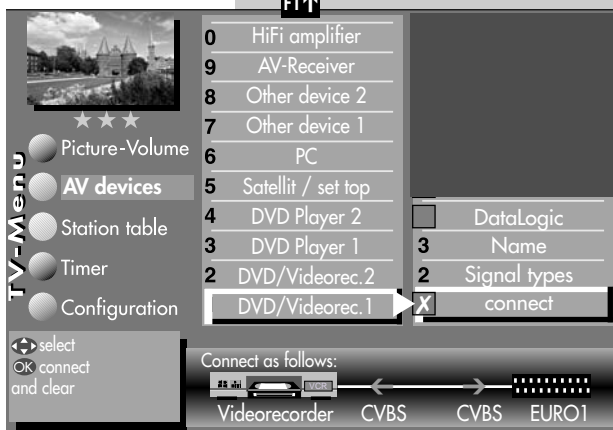☞ *Note that you must always connect AV devices exactly as shown in the connection diagram in the TV menu of your TV set !*
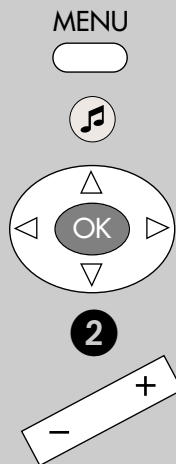
SVHS/Hi8 and Data Logic video recorders **must** always be connected to the EURO1 socket of the TV set.

In the factory, the EURO1 socket is programmed for a video recorder and the EURO2 socket is programmed for a DVD player.

Registering an AV device on the TV set

- Press the "**MENU**" key to open the TV menu.

- Press the yellow key 🎵 to open the menu "AV devices".

- Use the cursor control key to select the AV device you wish to register and press the "**OK**" key.

- Press numeric key ❷ and use the **-** **+** key to select the appropriate signal types (OUT/IN) for this device and press "**OK**" to confirm your selection. For details of the signal types, see page 66 and the operating instructions for the AV device being connected.

- If desired, press numeric key ❸, enter a different name for this AV device and press "**OK**".

- Use the cursor control key to select "Connect" and press the "**OK**" key. Then connect the AV device to the corresponding EURO socket.

MENU

🎵

△
◁ OK ▷
▽

❷

+
—

0	HiFi amplifier	
9	AV-Receiver	
8	Other device 2	
7	Other device 1	
6	PC	
5	Satellit / set top	
4	DVD Player 2	DataLogic
3	DVD Player 1	**3** Name
2	DVD/Videorec.2	**2** Signal types
	DVD/Videorec.1	**X** connect

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

select
OK connect and clear

Connect as follows:
Videorecorder CVBS CVBS EURO1

OK
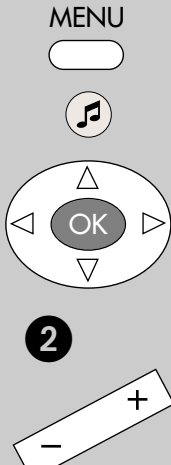
EXIT

☞ *Caution! Connection of a new device may cause an existing connection diagram to be changed. If so, you must reconnect the AV devices accordingly.*

73

Opening the menu

MENU

♪

OK

2

+

−

F1↑

0	HiFi amplifier
9	AV-Receiver
8	Other device 2
7	Other device 1
6	PC
5	Satellit / set top
4	DVD Player 2
3	DVD Player 1
2	DVD/Videorec.2
	DVD/Videorec.1

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

X	DataLogic
3	Name
2	Signal types
X	connect

↔ select
OK connect
and clear

Connect as follows:
Videorecorder CVBS CVBS EURO1

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25. Registering AV Devices Data Logic

Data Logic video recorder

> **i** "**Data Logic**" is a system which provides a dialogue between a TV set and a video recorder. This "intelligent" system offers the features such as:

- Automatic transfer of the settings for terrestrial or cable TV stations (not DVB) to the video recorder.

- Immediate recording - the video recorder records the programme currently displayed on the TV screen.

- Automatic switching to the AV programme position.

- Direct control of the video recorder from the timer menu of the TV set.

- Automatic switching off of the video recorder when the TV set is switched to the standby state.
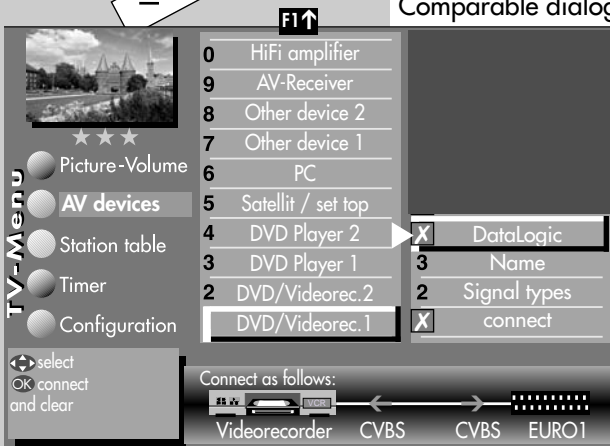
In the menu "AV devices" check **X** to the left of the field "Data Logic" for "Video recorder 1" and connect the video recorder to the EURO1 socket.

☞ *Data Logic will function correctly only if the AV-1 socket on the video recorder is connected to the EURO 1 socket on the TV set.*

Comparable dialogue systems are: QLink (Panasonic), EasyLink (Philips), Megalogic (Grundig), SMART-LINK (Sony).

Registering a Data Logic video recorder on the TV set

- Press the "**MENU**" key to open the TV menu.

- Press the yellow key ♪ to open the menu "AV devices".

- Use the cursor control key to

select the AV device to be connected and press the "**OK**" key.

- Press numeric key ❷, use the **- +** key to select the correct signal types (OUT/IN) and press the "**OK**" key.
  (See also the operating instructions of the AV device.)

- If desired, press numeric key ❸, enter a new name for the AV device and press the "**OK**" key.

- Use the cursor control key to select "Data Logic" and press the "**OK**" key.

- Use the cursor control key to select "Connect" and press the "**OK**" key. Then connect the AV device to the corresponding EURO socket.

Data Logic: transferring the station table

- Press the "**MENU**" key to open the TV menu.

- Press the red key 🔴 to open the menu "Configuration".

- Press numeric key ❹ to select "Analogue TV".

- Press the "**OK**" key and then press numeric key ❸ to select "Data Logic".

- Press the "**OK**" key to transfer the programme positions from the TV set to the video recorder.
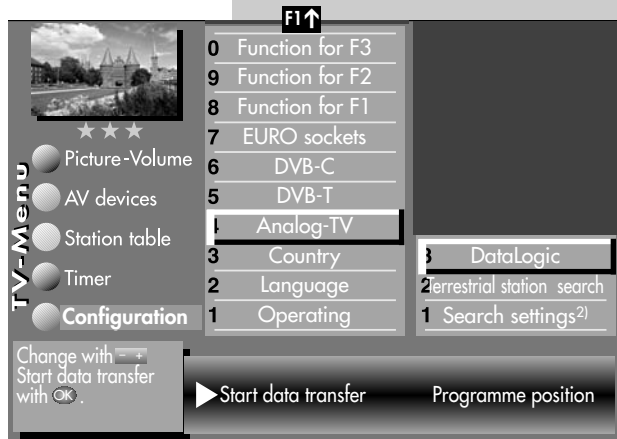
OK

EXIT

MENU

↩

4

3

OK

	F1↑	
0	Function for F3	
9	Function for F2	
8	Function for F1	
7	EURO sockets	
6	DVB-C	
5	DVB-T	
★ ★ ★	Analog-TV	
● Picture-Volume	3 Country	3 DataLogic
● AV devices	2 Language	2 Terrestrial station search
● Station table	1 Operating	1 Search settings[2)]
● Timer		
● **Configuration**		

Change with **- +**
Start data transfer
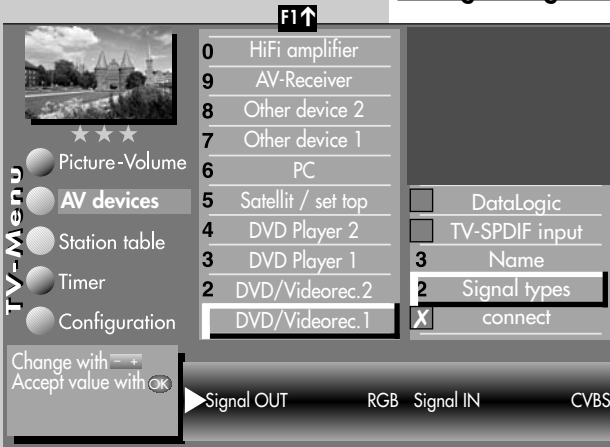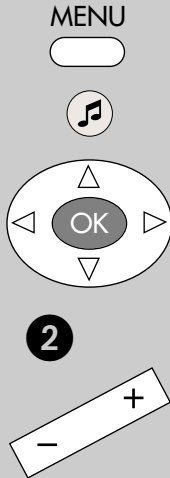with ⊙ .

▶ Start data transfer   Programme position

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

25. Registering AV Devices
Setting signal types RGB

☞ *The signal type always refers to the input and output of the AV device.*

Some AV devices may use a composite video signal (FBAS) for recording and playback operations and an RGB signal for displaying their menus.

It is not possible to make a general statement in this respect. The operating instructions of the AV device concerned may provide some indication.

If you connect such an AV device with the signal type "composite video" (FBAS) and recordings are played back correctly, but you cannot see the menu of the AV device, you must change the signal type in the menu "AV devices" to "RGB".

Setting the signal type

MENU

♪

△
◁ OK ▷
▽

❷

− +

F1↑

0	HiFi amplifier	
9	AV-Receiver	
8	Other device 2	
7	Other device 1	
6	PC	
5	Satellit / set top	☐ DataLogic
4	DVD Player 2	☐ TV-SPDIF input
3	DVD Player 1	3 Name
2	DVD/Videorec.2	2 Signal types
	DVD/Videorec.1	X connect

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

Change with − +
Accept value with OK

▶ Signal OUT   RGB   Signal IN   CVBS

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

• Press the "**MENU**" key to open the TV menu.

• Press the yellow key ♪ to open the menu "AV devices".

• Use the cursor control key to select the AV device whose signal type you wish to change and press the "**OK**" key.

• Press numeric key ❷, use the cursor control key to select " Signal OUT", and use the **- +** key to change the setting to " RGB".

• Press the "**OK**" key to confirm your selection.

• Press the "**EXIT**" key to close the TV menu.

☞ *Caution ! This may cause an existing connection diagram to be modified. If so, you must reconnect the AV devices accordingly.*

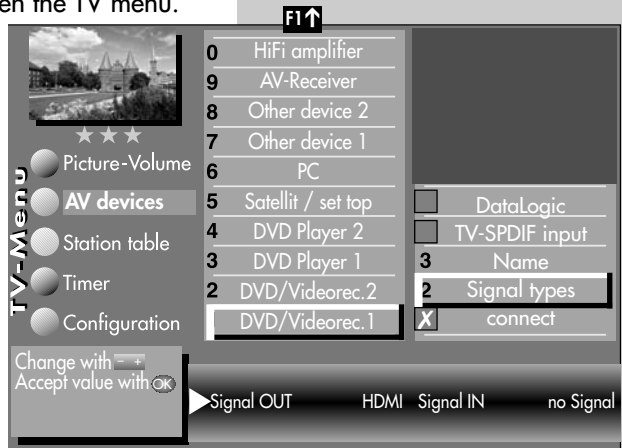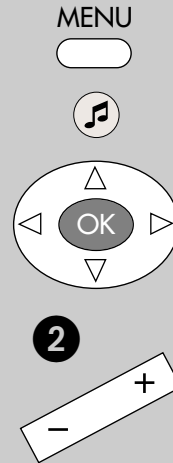☞ *The signal type always refers to the input and output of the AV device.*

AV devices equipped with a DVI or HDMI socket can be connected to the LCD TV with the aid of a DVI or HDMI cable, respectively.

The connected device must be registered in the menu "AV devices" with "Signal OUT" set to "DVI" or "HDMI", as applicable. Connection via a DVI or HDMI interface permits digital transfer of the picture signal from the device to the TV set. The sound signal must be connected with an additional Cinch or optical (Toslink) audio cable.

Setting the signal type DVI or HDMI

• Press the "**MENU**" key to open the TV menu.

• Press the yellow key 🎵 to open the menu "AV devices".

• Use the cursor control key to select the AV device whose signal type you wish to change and press the "**OK**" key.

• Press numeric key ❷, use the cursor control key to select " Signal OUT", and use the **- +** key to change the setting to " RGB".

MENU

🎵

△
◁ OK ▷
▽

❷

+

−

	F1↑		
	0	HiFi amplifier	
	9	AV-Receiver	
	8	Other device 2	
★ ★ ★	7	Other device 1	
Picture-Volume	6	PC	
AV devices	5	Satellit / set top	☐ DataLogic
Station table	4	DVD Player 2	☐ TV-SPDIF input
Timer	3	DVD Player 1	3 Name
Configuration	2	DVD/Videorec.2	**2 Signal types**
		DVD/Videorec.1	X connect

TV-Menu

Change with - +
Accept value with OK

▶ Signal OUT   HDMI   Signal IN   no Signal

• Press the "**OK**" key to confirm your selection.

• Press the "**EXIT**" key to close the TV menu.

☞ *Caution ! This may cause an existing connection diagram to be modified. If so, you must reconnect the AV devices accordingly.*
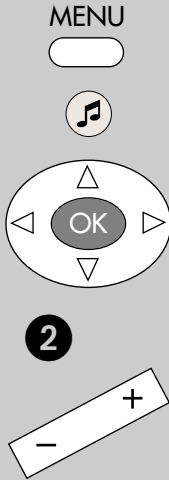
OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

MENU

♪

◁ OK ▷

2

− +

F1↑

0	HiFi amplifier
9	AV-Receiver
8	Other device 2
7	Other device 1
6	PC
5	Satellit / set top
4	DVD Player 2
3	DVD Player 1
2	DVD/Videorec.2
	DVD/Videorec.1

★ ★ ★

Picture-Volume

AV devices

Station table

Timer

Configuration

TV-Menu

☐	DataLogic
☐	TV-SPDIF input
3	Name
2	Signal types
X	connect

Change with − +
Accept value with ⊙ᴋ

▶ Signal OUT   YUV   Signal IN   no Signal

OK

EXIT

The number of subjects and sections depends
on the selected scope of operation. Depending
on the configuration of the TV set, the various
menu items may be displayed in a different
order and numbered differently.

78

**Connection of external devices with YUV compo-
nent output to the "COMPONENT IN" RCA jacks.**

☞ *The signal type always refers to the input
and output of the AV device.*

AV devices equipped with a YUV jack can be con-
nected to the LCD TV by means of a YUV cable
(see page 90). In the "AV Devices" menu, the con-
nected AV device must be registered with signal
OUT "YUV".

The connection of the analogue YUV source using
the RCA jacks to the YUV input of the LCD TV
depends on the output format of the signal source.

Configure the following settings, depending on the
output format of your signal source:

Setting the YUV Signal Type

- Enter the TV menu by pres-
  sing "MENU".

- Press the yellow key to open
  the "AV Devices" menu.

- Use the cursor control to
  select the AV device whose
  signal type you want to
  change and press "OK".

- Press numeric key **2**, use
  the cursor control to select
  "Signal OUT", and use the
  − + key to set "YUV" or
  "YUV (HD)".
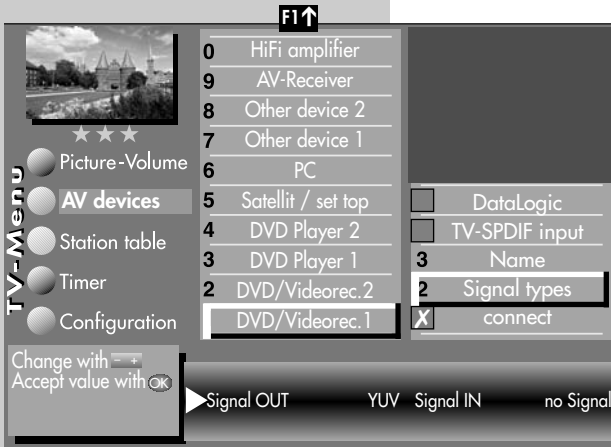
- Confirm the setting by pressing "OK".

- Exit the "TV Menu" by pressing "EXIT".

☞ *Caution ! This may cause an existing con-
nection diagram to be modified. If so, you
must reconnect the AV devices accordingly.*

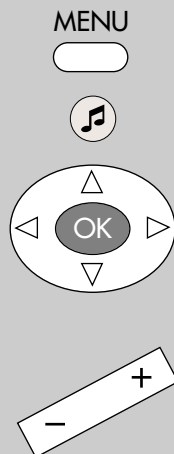# 25.1 Removing AV Devices

Opening the menu

☞ *This menu item is not available in a 2 ** menu.*

If desired, you can change the factory settings for AV devices (a video recorder on the EURO1 socket and a DVD player on the EURO2 socket).

Removing an AV device from the TV set

- Press the "**MENU**" key to open the TV menu.

- Press the yellow key ⓙ to open the menu "AV devices".

- Use the cursor control key to select the device you wish to remove and press the "**OK**" key. The cursor is on the line "Connect".

- Press the "**OK**" key again. A message is displayed, asking if you really want to change the connected device.

- Press the **OK** key again to remove the connected device.

- Press the "**EXIT**" key to close the TV menu.

MENU

	★ ★ ★	
	○ Picture-Volume	
	● **AV devices**	
	○ Station table	
	○ Timer	
	○ Configuration	

F1 ↑	
0	HiFi amplifier
9	AV-Receiver
8	Other device 2
7	Other device 1
6	PC
5	Satellit / set top
4	DVD Player 2
3	DVD Player 1
2	DVD/Videorec.2
	DVD/Videorec.1 ▶

☐	DataLogic
☐	TV-SPDIF input
3	Name
2	Signal types
☐	connect

◆ select
OK connect
and clear

Connect as follows:
DVD/Videorec.1

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
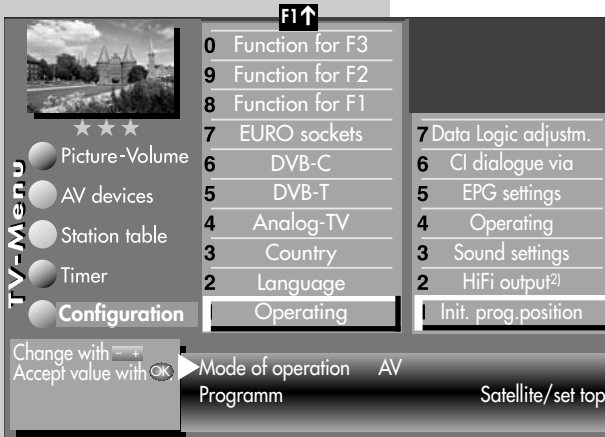
79

26. Initial Programme Position

You can define an initial programme position in this TV set. This initial programme position is used primarily to select the AV programme position if you use an external receiver.

Setting the initial programme position

☞ *This menu item is not available in a 2 ** menu.*

Select a receiver (satellite or set-top box) in the menu "AV devices" and connect the receiver to the TV set (see also Section 25, Registering AV Devices").

↰

▶

OK

		F1↑	
	0	Function for F3	
	9	Function for F2	
	8	Function for F1	
★ ★ ★	7	EURO sockets	7 Data Logic adjustm.
Picture-Volume	6	DVB-C	6 CI dialogue via
AV devices	5	DVB-T	5 EPG settings
Station table	4	Analog-TV	4 Operating
Timer	3	Country	3 Sound settings
Configuration	2	Language	2 HiFi output[2]
	1	Operating	1 Init. prog.position

Change with − +
Accept value with OK ▶ Mode of operation   AV
Programm   Satellite/set top

- Press the "**AV**" key.

- Use the numeric keys to select the position "Sat/Set-top" in the AV menu.

- Press the "**MENU**" key to open the TV menu.

- Press the red key ↰ to open the menu "Configuration".

- Use the cursor control key to select "Operation" and then "Initial programme position".

- Press the "**OK**" key and, in the setting window, use the **- +** key to select "Yes".

- Press the "**OK**" key to save the new setting.

- Press the "**EXIT**" key to close the TV menu.

☞ *The AV programme position will now be selected automatically when you switch on the TV set with the main power switch.*

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

27. Sound via HiFi Amplifier HiFi output

On the rear of the TV set, you will find audio sockets and a digital audio-out socket (see page 90) which can be used to connect the TV set to a HiFi system (HiFi amplifier).

Settings need to be made in the menu items "HiFi output" and "Sound settings" only if the TV set is connected to a HiFi system.

If you want adjust the sound settings exclusively on the HiFi system, you must set the HiFi output to constant.

You can then no longer adjust the volume and tone with the Metz remote control. The mute 🔇 function remains active.

If you want to be able to change the sound settings with the Metz remote control, you must set the HiFi output to variable.

MENU

⬅

▶

❷

F1↑

0	Function for F3		
9	Function for F2		
8	Function for F1		
7	EURO sockets	**7**	Data Logic adjustm.
6	DVB-C	**6**	CI dialogue via
5	DVB-T	**5**	EPG settings
4	Analog-TV	**4**	Operating
3	Country	**3**	Sound settings
2	Language	**2**	HiFi output[2)]
	Operating	**1**	Init. prog.position

Picture-Volume
AV devices
Station table
Timer
Configuration

★ ★ ★

Change with − +
Accept value with OK
▶ HiFi output   constant
Output level   50%   ▬▬▬▭▬

Setting the HiFi output

- Press the "**MENU**" key to open the TV menu.

- Press the red key ⬅ to open the menu "Configuration".

- Use the cursor control key ▶ to select "Initial programme position".

- Use the corresponding numeric key (in the example: ❷) to select " HiFi output".

- In the setting window, use the **- +** key to set the desired parameters.

- Press the "**OK**" key to save the new settings.

- Press the "**EXIT**" key to close the TV menu.

In normal TV Mode, the function "Sound via..." can be activated temporarily by pressing the yellow key 🎵 and using the **- +** key.

+
−

OK
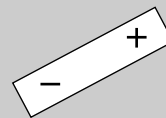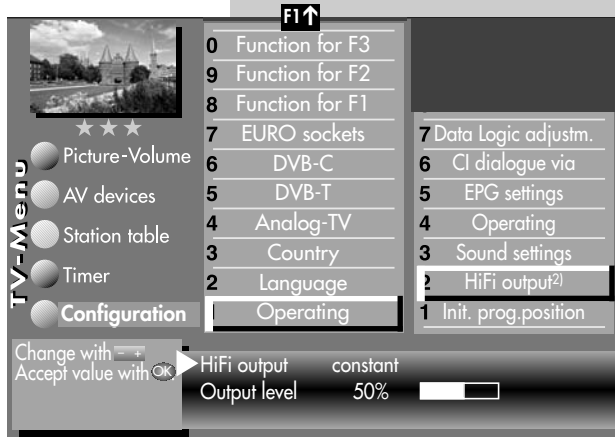
EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
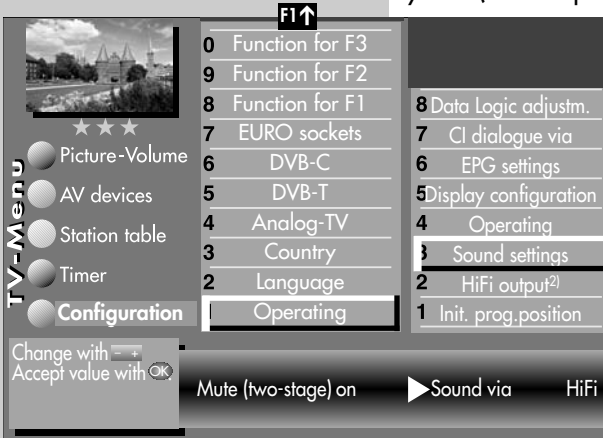
27. Sound via HiFi Amplifier HiFi output

On the rear of the TV set, you will find audio sockets and a digital audio-out socket (see page 90) which can be used to connect the TV set to a HiFi system (HiFi amplifier).

If you wish to play back the sound only via a HiFi system (HiFi amplifier) which is connected with the aid of a **Cinch cable**, you must select the function "Sound via HiFi".

If you wish to play back the sound only via a HiFi system (HiFi amplifier) which is connected with the aid of an **optical audio cable** ("Toslink", available as an accessory), the following settings should not be made.

MENU

OK

3

F1↑

	0 Function for F3	
	9 Function for F2	
★ ★ ★	**8** Function for F1	**8** Data Logic adjustm.
Picture-Volume	**7** EURO sockets	**7** CI dialogue via
AV devices	**6** DVB-C	**6** EPG settings
Station table	**5** DVB-T	**5** Display configuration
Timer	**4** Analog-TV	**4** Operating
Configuration	**3** Country	**3** Sound settings
	2 Language	**2** HiFi output[2]
	Operating	**1** Init. prog.position

Change with – +
Accept value with OK

Mute (two-stage) on ▶ Sound via HiFi

OK

EXIT

Setting sound via HiFi

- Press the "**MENU**" key to open the TV menu.

- Press the red key ⤺ to open the menu "Configuration".

- Press the "**OK**" key to move to the right-hand column.

- Use the cursor control key ▲ or the corresponding numeric key (in the example: **3**) to select "Sound settings".

- In the setting window, use the cursor control key ▶ to select the menu item "Sound via…".

- Use the – + key to select "Sound via HiFi".

- Press the "**OK**" key to save the new setting.

- Press the "**EXIT**" key to close the TV menu.

In normal TV Mode, the function "Sound via…" can be activated temporarily by pressing the yellow key ⤶ and using the – + key.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

☞ *This menu item is not available in a 2 ** menu.*

The green digital display on the front of the TV set can be programmed, as desired, to show the time or the current programme position.
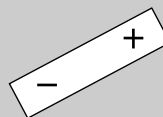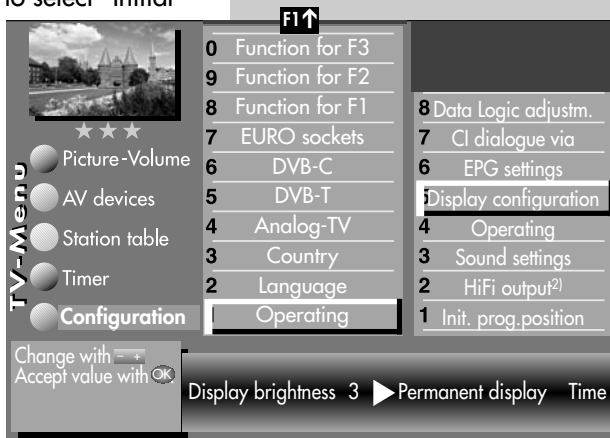
Setting the display configuration [2]

• Press the "**MENU**" key to open the TV menu.

• Press the red key ⬏ to open the menu "Configuration".

• Use the cursor control key ▶ to select "Initial programme position".

• Use the corresponding numeric key (in the example: ❺) to select "Display configuration".

• In the setting window, use the **-** **+** key to select the desired setting.

• Press the "**OK**" key to save the new setting.

• Press the "**EXIT**" key to close the TV menu.

MENU

⬅

▶

❺

F1↑

	0	Function for F3		
	9	Function for F2		
	8	Function for F1	8	Data Logic adjustm.
★ ★ ★	7	EURO sockets	7	CI dialogue via
Picture-Volume	6	DVB-C	6	EPG settings
AV devices	5	DVB-T	5	Display configuration
Station table	4	Analog-TV	4	Operating
Timer	3	Country	3	Sound settings
	2	Language	2	HiFi output[2]
Configuration		Operating	1	Init. prog.position

TV-Menu

Change with **-** **+**
Accept value with ⓞⓚ

Display brightness 3 ▶ Permanent display Time

- **+**

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

2) Possible only on sets equipped with this function.

29. DVB Radio Mode

R

TV

To switch from TV mode to DVB radio mode, press the "**R**" key.

The screen is automatically blanked after about 30 seconds.

To switch from DVB radio mode to TV mode, press the "**TV**" key.

Setting DVB radio stations

The available DVB radio stations are automatically detected during a station search (see Section 22) and stored in a separate station table at the operating level for radio mode.

The radio station table can be sorted (see Section 24) and the station logos can be changed (see Section 23).

☞ *DVB radio stations are administered in the same basic way as DVB TV stations.*
The functions described in Sections 12, 12.1, 15 to 17.2 and 18 (Special functions, Normal/speech, Timer overview and Direct recording) are also available for radio stations.

30. Scope of Operation

The adjustable scope of operation for the TV set can be a great help in finding your way around the complex operating functions of the TV set.

The scope of operation can be set to various levels, which are identified by asterisks.

1 ★   "Just watching TV"- in other words, it is not possible to open the TV menu and only the functions available on the remote control can be used:

- Zapping

- Selection of programme positions with the numeric keys, the oval "**P+/P-**" rocker key or the white key ⑨.

- Opening Teletext.

- Displaying help information (INFO).

- Playing back films from a video recorder or DVD player by pressing the "**AV**" key.

- Selecting "Special functions 1" by pressing the **F1** key.

- Selecting "Special functions 2" by pressing the **F2** key.

- Selecting "Special functions 3" by pressing the **F3** key.

- Selecting connected AV devices by pressing the "**AV**" key.

- Calling the standard picture functions by pressing the blue key ◎.

- Calling the standard sound functions by pressing the yellow key ♪.

- Calling the "EPG" function with the "**EPG**" key.

If the scope of operation is set to a 1★ menu and you subsequently want to open a menu, then:

• Press and hold the "**MENU**" key for at least five seconds to open the TV menu.

• The menu item "Operation" is automatically selected.
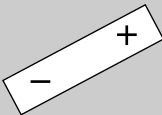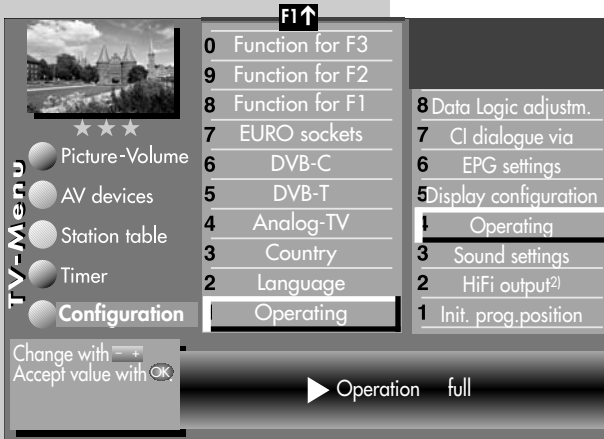
MENU

• Use the **- +** key to select the desired scope of operation and press the "**OK**" key to save the new setting.

2 ★ ★   This menu permits you to configure the use of the TV set to a certain degree. All of the functions listed for the 1★ menu are available and are supplemented by the following functions:

- Childlock

- Timer control (sleep timer)

- Automatic station search

- Transfer of the TV station table from the TV set to a Data Logic video recorder.

- Editing functions in the station table

3 ★ ★ ★ This is the operating scope for persons who are interested in technology who want to be able to use the full range of functions of the TV set.

F1↑

	0	Function for F3	
	9	Function for F2	
	8	Function for F1	
★ ★ ★	7	EURO sockets	8 Data Logic adjustm.
	6	DVB-C	7 CI dialogue via
Picture-Volume	5	DVB-T	6 EPG settings
AV devices	4	Analog-TV	5 Display configuration
Station table	3	Country	4 Operating
Timer	2	Language	3 Sound settings
Configuration		Operating	2 HiFi output[2]
			1 Init. prog.position

Change with **- +**
Accept value with OK

▶ Operation   full

Setting the scope of operation

• Press the "**MENU**" key to open the TV menu.

• Press the red key ☺ to open the menu "Configuration".

• Use the cursor control key ▶ to move to the menu line "Initial programme position".

• Press the numeric key ❹ to select "Scope of operation".

• In the setting window, use the **- +** key to select the desired scope of operation.

Press the "**OK**" key to save the new setting.

Press the "**EXIT**" key to close the TV menu.

+
−

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

31. Operation without the Remote Control

Operation without the remote control is provided as an emergency measure in case the batteries of your remote control are exhausted or the remote control is not readily available.

You will find the local control on the bottom of the TV set on the left side (Milos) or behind a flap (Talio), which is opened by pressing•••

Switching on

Press the main power switch on the TV set. After about five seconds, the TV set is switched on with programme position 1 or the programmed initial programme position selected.

You can also use the following functions directly on the TV set, without a remote control. For functions which require further adjustments, the function remains preselected for ten seconds.

Programme selection

Press the **-/+** buttons.

Volume

Press and hold the preselection key **F** until the bar display for the volume appears on the screen. Then press the "**-**" or "**+**" button to adjust the volume.

Contrast

Press and hold the preselection key **F** until the bar display for the contrast appears on the screen. Then press the "**-**" or "**+**" button to adjust the contrast.

31.1 Connecting Headphones

The headphone socket is located behind a flap on the left side of the TV set (see Section 35).

Tilt the flap on the Milos up with your fingernail.

On the Talio open the flap by pressing •••.

See also ch. 35.

We recommend the use of headphones with an impedance of at least 32 Ω. The use of headphones with a lower impedance will reduce the dynamic range of the sound.

You can save the headphone volume as a standard value.

⚠️ ***Setting the volume too high when using headphones or earphones can result in damage to the ears - including the complete loss of hearing.***

32. Sound 1, Sound 2

When receiving a dual-language programme, you can switch between the two sound channels.

In TV mode, press and hold the yellow key ♫ until the sound function "Sound mode" is selected.

Then use the **-** **+** key to select Sound 1 or Sound 2.

Headph. Vol.
► Sound mode Cannel 2
Spatial

Spatial
► Sound mode Cannel 2
Balance
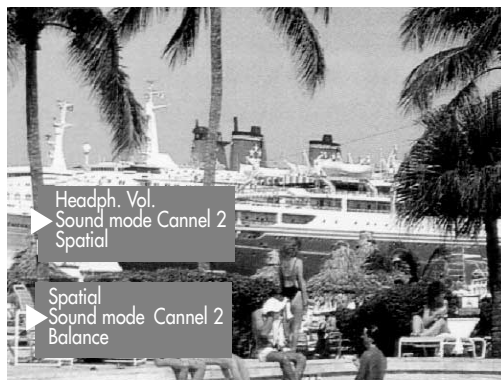
33. Cleaning the TV Set

☞ *Before cleaning the set, always switch it off with the mains switch!*

☞ *Incorrect treatment and cleaning of the screen surface can cause irreparable damage to it. You should therefore always observe the following instructions for treatment and cleaning of the set.*

Treatment:

Always treat the screen surface very carefully.

Take care not to damage it mechanically by shocks, impact, scratching or scraping.

Keep sharp, pointed and hard objects away from the surface of the screen.

Keep the surface of the screen clean.

For cleaning the case and the screen, use only a soft, dry cloth. For removing stubborn marks, you may moisten the cloth slightly.

Cleaning and care:

The surface of the screen may be cleaned only with a soft, dry cloth (such as a microfleece duster). If any marks cannot be removed with this dry cloth, you may moisten the cloth slightly.

Take care that no water or other liquid can enter the TV set, since this can cause serious damage to the set.

If any liquid or other foreign object (pieces of metal, etc.) enters the set, immediately disconnect the mains plug from the wall outlet.

Never insert your hands or tools into the set, since this may result in electric shocks.

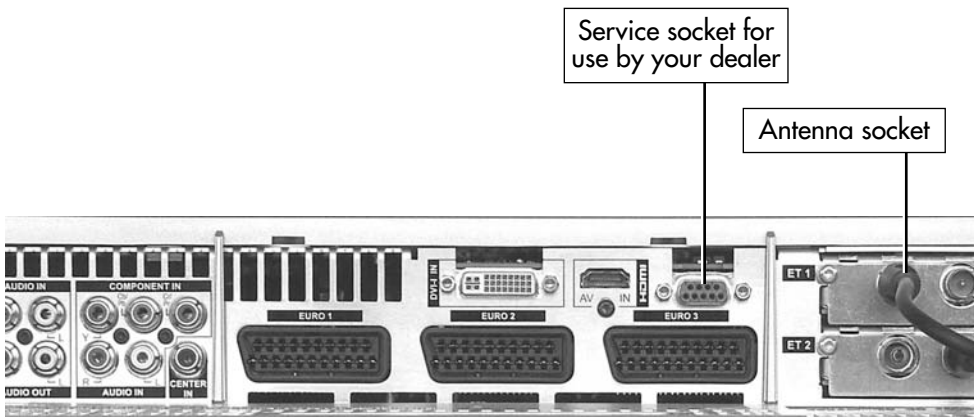# 34. Connections on the Left/Front Side of the Set
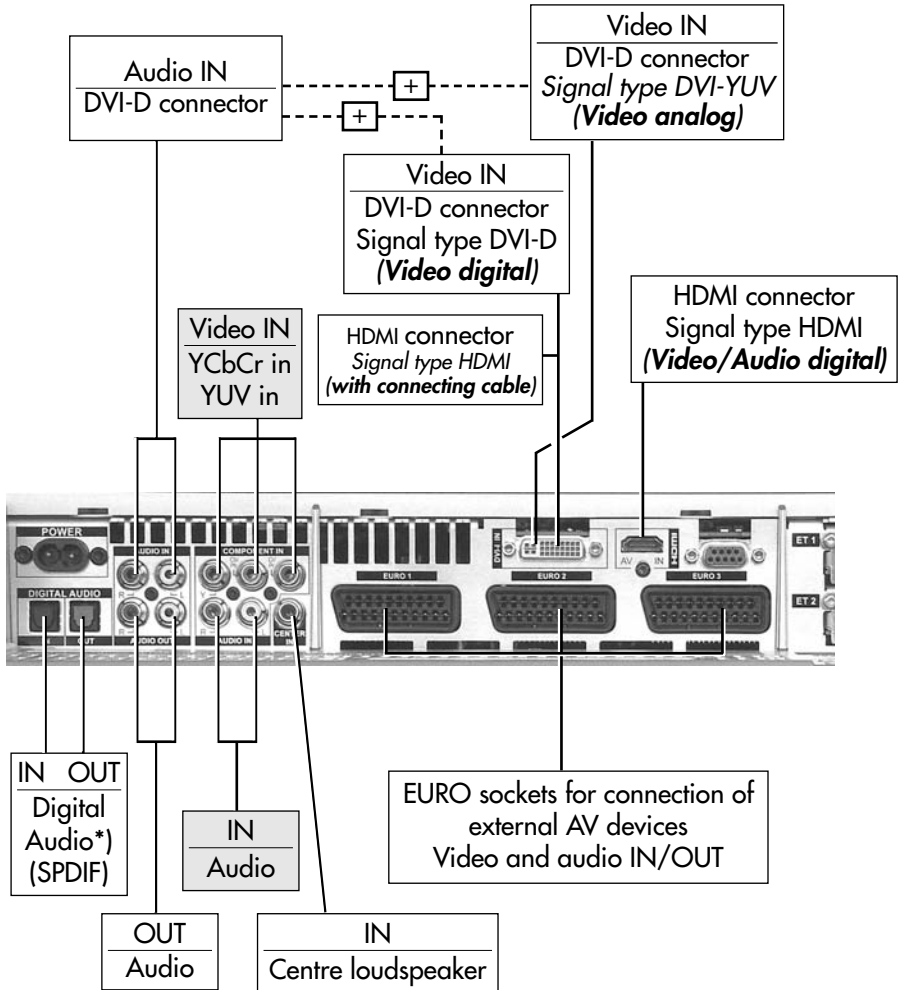
④
③
②
①

Milos, left side

④ ② ③ ①
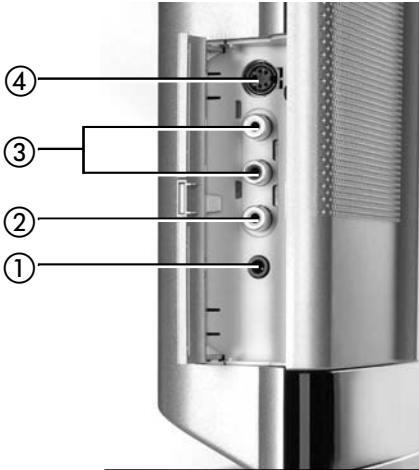
Talio, at the front under the flap

① Headphone socket, diameter 3.5 mm

② FBAS/Video in (e.g. digital camera or camcorder)

③ Audio in   R/L (e.g. camcorder)

④ S-VHS or. Y/C in (e.g. camcorder)

Service socket for
use by your dealer

Antenna socket

34.1 Connections on the Rear of the Set (covered by a flap) Viewed from below

Audio IN	
DVI-D connector	

Video IN
DVI-D connector
Signal type DVI-YUV
(Video analog)

Video IN
DVI-D connector
Signal type DVI-D
(Video digital)

HDMI connector
Signal type HDMI
(with connecting cable)

HDMI connector
Signal type HDMI
(Video/Audio digital)

Video IN
YCbCr in
YUV in

IN   OUT
Digital Audio*) (SPDIF)

IN
Audio

EURO sockets for connection of external AV devices Video and audio IN/OUT

OUT
Audio

IN
Centre loudspeaker

*) The sockets "Digital audio IN" and "Digital audio OUT" can be operated in loop-through mode. To do this, open the menu "AV devices" and activate (x) the menu item "Activate TV SPDIF input".

☞ **With the aid of an optical audio cable ("Toslink" cable, available from your dealer), the digital audio signal (AC3) provided by the TV set can be extracted for external processing.**

34.1 Connecting a Hifi Amplifier/AV Receiver

Metz LCD-TV

HiFi-amplifier
AV-Receiver

MENU

🎵

▲

OK   OK

+

−

Registering the AV Device with the TV

- Enter the TV menu by pressing "MENU".
- Press the yellow key 🎵 to open the "AV Devices" menu.
- Use the cursor control key ▲ to select "Hifi Amplifier" in the device selection.
- Press "OK" twice, use the cursor control key ▲ to select "Signal Types", and press "OK"..
- For connection type ❶ , select the signal type "Signal IN - SPDIF".

  For connection type ❷ , select the signal type "Signal IN – Stereo".

  Confirm the setting by pressing "OK"

- Press the "**EXIT**" key to close the TV menu.

Sound:

- To configure the sound settings of the LCD TV, press the yellow key 🎵 and use the cursor control key ▼ to select the menu item "Sound via ...".

F1↑

	HiFi amplifier		
9	AV-Receiver		
8	Other device 2		
7	Other device 1		
6	PC		
5	Satellit / set top		DataLogic
4	DVD Player 2	4	TV-SPDIF input
3	DVD Player 1	3	Name
2	DVD/Videorec.2	2	Signal types
1	DVD/Videorec.1	X	connect

★ ★ ★

Picture-Volume

AV devices

Station table

Timer

Configuration

TV-Menu

◄►select
OK connect
and clear

Connect as follows:

○ ▭ HiFi ◯ ← → ○–○
HiFi amplifier   Stereo   no signal   Cinch
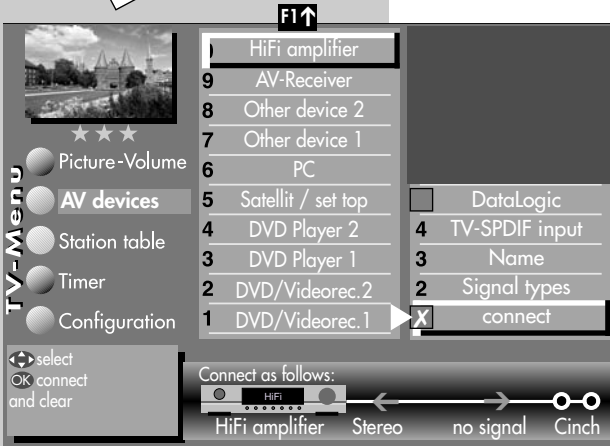
- For connection type ❶, use the - + key to select "Sound via Hifi".

  The speakers of the LCD TV are muted. The sound (AC3 or stereo sound) is rendered over the speakers of the Hifi set.

- For connection type ❷, use the - + key to select "Sound via surround".

The speakers of the LCD TV are used as the centre box. The sound (AC3 or stereo sound) is rendered over the speakers of the Hifi unit.

OK

EXIT

35. Copying between AV Devices Direct recording

If you wish to copy a recording from one of the AV devices connected to your TV set (such as a DVD player) to another connected AV device (such as a video recorder), you must do this by means of a direct recording operation. In this case, the signal arriving at one of the EURO sockets is redirected to the other EURO socket, from where it can be recorded.

Example: you have a DVD player and a video recorder connected to the EURO sockets of the TV set (see Section 25).

Programming a direct recording for copying:

• Press the "**AV**" key and use the corresponding numeric key to select the DVD player (playback device).

• Press the **F2** key.
Briefly pressing **F2** executes the function which is programmed for this function key (see Section 18.1, "Programming function keys").
Pressing and holding **F2** for about three seconds displays all functions available for this function key.

• Press **numeric key 0** to open the timer menu. The timer window displays the AV programme position (DVD player), the current date and a time window of two hours.

• If two hours is insufficient for the copying operation, use the numeric keys to enter a later end time.

AV

2

| ► **2 DVD-Player** |
| **1 Videorecor-** |
| **der** |
| Select with **0**…**9** |
| or ◄◆► . |
| Confirm with ○K |

F2

0

Recording	Yes
Reminder	No
Pr 6	
SAT 1	
Date	01.05.
Start	22:45
End	23:40
VPS	no
Recording device	
Videorecorder	
Change with ▬ +
◆ :select
○K :save the timer
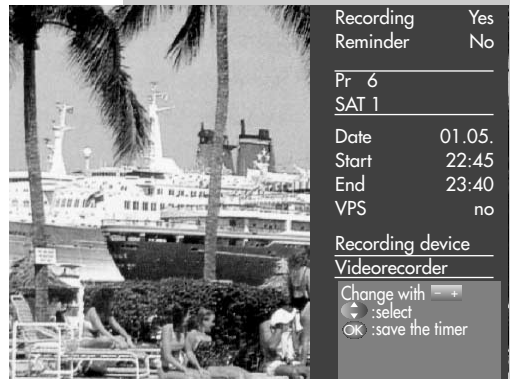
35. Copying between AV Devices Direct recording

- Use the cursor control key ▼ to select the line "Recording device".
  If only one such device exists, it is then displayed. If further recording devices exist, you can select the desired device with the aid of the **- +** key.

- Press the "**OK**" key to save the settings.

- On the playback device (in this example, the DVD player) start the film which is to be copied.

- On the recording device (in this example, the video recorder), select the AV programme position (in most cases AV1).

- On the recording device, start a direct recording by pressing the appropriate button (**REC** or **OTR**, etc.).

The TV set is now set up so that the signal coming from the playback device is connected directly to the recording device.

36. Setting the MPEG noise reduction

During play-back of digital coded films in AV-mode, the MPEG noise reduction can be adjusted to provide a better picture quality (reducing the block shapes caused by digital compression).

For this, in AV-mode go to the menu "Picture-Volume" and choose "Picture settings, programme position". Select "MPEG noise reduction" and press **OK** to switch to the setting level. Set the adjustment with **– +** (off - light - medium - strong).

		9 VCR[3]
		8 Picture format[5]
		7 Colour standard[3)7]
★ ★ ★		6 Colour offset[3)7]
Picture-Volume		5 Noise reduction[3]
AV devices		MPEG noise reduction
Station table	4 Sound set,.prog.posn.	3 Picture sharpness
Timer	3 Sound settings, gen.	2 Colour intensity
Configuration	2 Pict.set.,prog.posn.	1 Contrast
	1 Picture settings, gen.	

TV-Menu

Change with **– +**
Accept value with **OK**
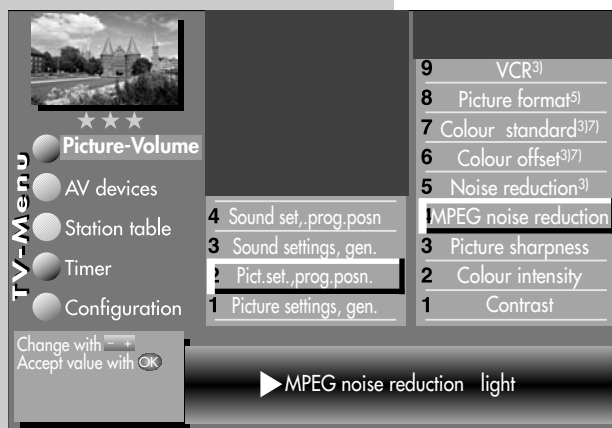
▶ MPEG noise reduction   light

Opening the menu

☞ *Some of the following menu items are not available on a 2 ** menu.*

Setting the picture format:

• Select the AV programme position which delivers the picture by pressing the "**AV**" key and then pressing the numeric key corresponding to the device you want to use.

• Press the "**MENU**" key. The TV menu appears on the screen.

• Press the blue key ◎ to open the menu "Picture and sound". The menu item "General picture settings" is preselected.

• Press **numeric key ❷** to select the menu item "Pict. settings for Pr.".

• Use the corresponding numeric key (in the example: **❼**) to select the function "Picture format".

• Use the **‒ +** key to set the picture format setting to "Automatic".

• Press the "**OK**" key to save the new setting.
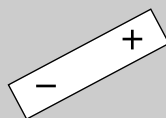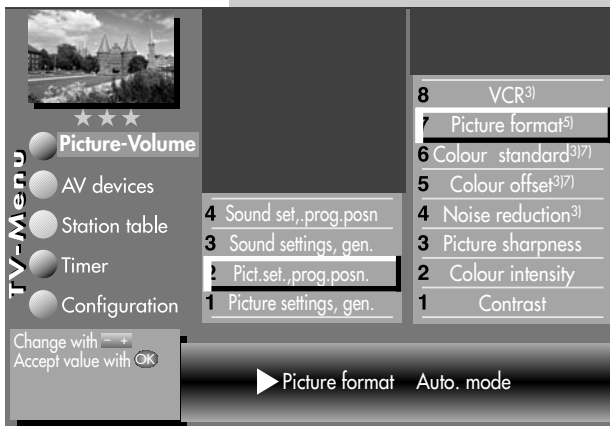
• Press the "**EXIT**" key to close the TV menu.

MENU

◎

▶

❷　　❼

TV-Menu

★ ★ ★
○ **Picture-Volume**
○ AV devices
○ Station table
○ Timer
○ Configuration

Change with ‒ +
Accept value with OK

4	Sound set.,.prog.posn
3	Sound settings, gen.
2	Pict.set.,prog.posn.
1	Picture settings, gen.

8	VCR3)
7	Picture format5)
6	Colour standard3)7)
5	Colour offset3)7)
4	Noise reduction3)
3	Picture sharpness
2	Colour intensity
1	Contrast

▶ Picture format　Auto. mode

‒ +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

3) See glossary for an explanation.
7) Available only for analogue stations!

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37. Glossary

Automatic zoom

When the automatic zoom function is active, programmes broadcast in "widescreen format" (such as those in the 16:9 format) are expanded to fill as much of the screen as possible.

If this function is inactive, the format of such programmes is not adjusted automatically.

AV programme position

AV devices have one or more connection sockets, depending on the model. The designations of these sockets are marked on the device (e.g. AV1).

On the AV device, you can select which socket you want to use. The selected socket is shown on the display of the AV device (e.g. A1 for socket AV1).

Code

The settings for the childlock function are protected by a four-digit code: you can enter any desired code, but you should note it for future use. If you have forgotten your code, please consult your local dealer.

Forced mono

It may happen that your TV set switches to stereo mode although the programme you are watching is not broadcast with stereo sound. This is normally due to the local reception conditions. If you set the selected programme position to "forced mono" all programmes received at this programme position are reproduced with mono sound.

Noise reduction

This function allows you to improve the picture quality of "snowy" pictures which result from poor reception conditions. Various levels of noise reduction can be selected and the settings can be made separately for each programme position.

37. Glossary

Panorama

The panorama function can be used to expand "normal" TV programmes broadcast in the 4:3 format to fill the full width of a 16:9 screen. This is done by expanding the picture width accordingly.

Picture position, vertical

With widescreen films, subtitles are sometimes transmitted in the black area at the bottom of the screen. You can move the picture upwards on the screen to ensure that these subtitles remain visible.

Standard values

The standard values are the settings (such as brightness, sound volume, colour, etc.) which are the same for all programme positions.

Spatial sound

This function can be used to create an artificial stereo effect for programmes with sound in mono.

Stereo wide

For stereo broadcasts, the distance between the speakers can be increased artificially in order to achieve a wider stereo effect.

SRS-WOW [2]

WOW is an audio system developed by SRS Labs, Inc. which provides a unique listening experience. The sound becomes fuller and the bass is deeper and more voluminous.

Activation of the WOW function allows you to hear a lot of spatial and environmental audio information which is lost in normal stereo mode.

In normal TV mode, the WOW function can be preselected by pressing the yellow key ⓟ and then switched on and off with the ‑ + key.

SRS(●) WOW Is a registered trade mark of SRS Labs, Inc.

[2] Possible only on sets equipped with this function.

37. Glossary

The SRS WOW technology is used by Metz under a licence from SRS Labs, Inc.

Tone settings

The tone can be set to either "Normal" or "Speech". In the setting "Speech", the bass and treble components of the sound signal are set to make speech as easy to understand as possible. The setting "Normal" is recommended for music programmes.

VCR

The VCR function provides an optimal picture quality when playing back recordings from tape devices such as camcorders or video recorders.

Volume correction

The various stations broadcast their sound at different volumes. The TV set can automatically compensate for these differences in the volume. This function remains active even if the standard sound settings are recalled.

38. Technical Data

Mains voltage:
230-240 VAC, 50Hz

Antenna input:
75 Ohms, unbalanced DIN 45325

Channel coverage:
Standard channels 2 - 12, 21 - 69
Special channels S1 - S20, S21 - S41,
S42 ... S46 (Belgium channels OIR)

Power consumption	Power consumption (to CENELEC / TC 59 X)**	Music output power to DIN 45324 into 4Ω (at 1 kHz) (sinusoidal power) *) into 8Ω
Milos 37 HD	ca. 175 W	2 x 20 W (2 x 12 W)
Talio 37 HD	ca. 175 W	2 x 20 W (2 x 12 W)

** The power consumption was determined with backlight control turned off (see p. 19). The figure provided here can turn out to be lower with backlight control "dynamic" and "automatic" - depending on the parameters set there - and as a result lead to power saving.

Energy consumption per hour (Wh):

Multiply the power consumption in W by 1 hour

Stand-by: <1.7 W

38. Technical Data

Supported Signal Standards

Video HDMI
720x480i/p 60Hz RGB
720x480i/p 60Hz YCbCr 4:4:4 / 4:2:2
720x576i/p 50Hz RGB
720x576i/p 50Hz YCbCr 4:4:4 / 4:2:2
1280x720p 50/60Hz RGB
1280x720p 50/60Hz YCbCr 4:4:4 / 4:2:2
1920x1080i 50/60Hz RGB
1920x1080i 50/60Hz YCbCr 4:4:4 / 4:2:2
1920x1080p 50/60Hz RGB
1920x1080p 50/60Hz YCbCr 4:4:4 / 4:2:2
640x480p 60Hz RGB

Video DVI-D
Formats of component in "About adapter cables"
640x480p 60Hz RGB (DVI-D, analog)
800x600p 60Hz RGB (DVI-D, analog)
1024x768p 60Hz RGB (DVI-D, analog)
1366x768p 60Hz RGB(DVI-D, analog)
1280x720p 50/60Hz YCbCr analog
1920x1080i 50/60Hz YCbCr analog

Video Scart (RGB):
720x576i 50 Hz
720x480i 60 Hz

Video Scart (Y/C, FBAS) / Front AV:
720x576i 50 Hz PAL / SECAM
720x480i 60Hz NTSC

Video Component IN:
720x576i/p 50 Hz
720x480i/p 60 Hz
1280x720p 50/60Hz
1920x1080i 50/60Hz

Audio HDMI:
Linear PCM Stereo 32 kHz
Linear PCM Stereo 44,1 kHz
Linear PCM Stereo 48 kHz

Audio S/PDIF:
Linear PCM Stereo 32 kHz
Linear PCM Stereo 44,1 kHz
Linear PCM Stereo 48 kHz

38. Technical Data

Audio Scart / Front AV, Comp Audio, DVI Audio:
Analog Stereo

Audio Center IN:
Analog mono

38.1 Upgrade Kits

• DVB-S digital conversion set 029 NM 1119

for the reception of digital satellite stations for TV and radio programs. The DVBD conversion set is installed in the TV set and you do not need any additional remote control for it.

• DVB-T/C/analogue conversion set 070 NM 1061

for the reception of digital terrestrial, digital cable and analogue stations for TV and radio programs. The DVBD conversion kit is installed in the TV set and you do not need any additional remote control for it.

Ask your local dealer about any further upgrade kits.

You can also find further information on our homepage: www.metz.de.

39. Inserting/Removing CA Modules

The LCD TV has two slots (CI1 / CI2) for CA modules at the top (card reader for smartcards or decoder cards).
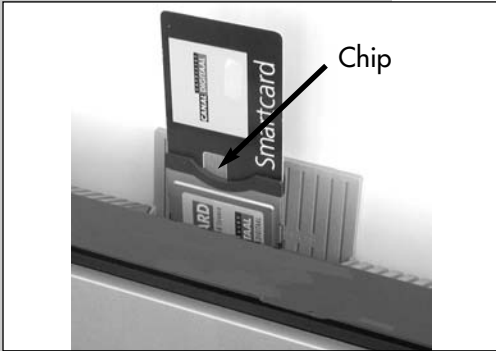
To insert the CA module, open the lid on the top of the LCD TV and insert the CA module in one of the slots as shown in the pictures. Press the CA module down until the unlocking bar is lifted up.

Close the lid.

The LCD TV is now ready to decode the respective station.

Chip

Front view

Back/top view (without lid)

Unlocking bar
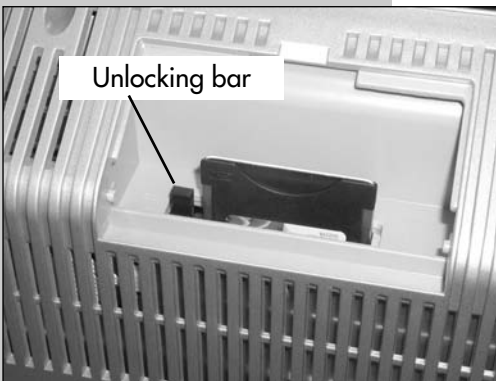
Back view (without lid)
with inserted module

40. Basic differences between analog terrestrial reception and DVB-T

Information for our dealers and interested customers.

In order to understand how the behaviour of DVB-T receivers differs from that of the analog terrestrial receivers used until now, two things are important: digital transmission and the simultaneous broadcasting network.

Digital transmission

A DVB transmitter does not transmit only a single programme, but a set of programmes – normally six to eight. The information for each programme – the picture, the sound and teletext – is converted into a digital format, i.e. into numerical values which are grouped together in packets. The packets of the various programmes are then transmitted sequentially in a so-called transport stream.

Further information which permits the receiver to detect and correct any errors which occur during transmission is added to this transport stream.

Example:

If the information 0 or 1 is to be transmitted, the 0 could be encoded as 000 and the 1 as 111. If one of the three digits numbers is falsified during transmission, i.e. the receiver receives, for example, 010 instead of 000, the receiver can decide that the presence of at least two zeros indicates that the intended information value was 0 and, correspondingly, that at least two ones indicates the information 1.

If two of the numbers in a block are changed, the receiver can detect that an error has occurred, but any attempt to correct this would have the wrong result.

Example:

If the information 0 is encoded as 000 and is received as 101, the receiver would assume that this should have been 111 and will then decode it, incorrectly, as 1.

To sum up:

several programmes are transmitted by a single transmitter in the form of digital packets. Additional information is transmitted to permit complete correction of a certain number of transmission errors.

Simultaneous broadcasting network

For DVB-T, the programmes are not transmitted on a modulated carrier frequency; instead, one channel with a width of 8 MHz contains 8,192 individual carrier frequencies.

Some of the signals reaching the receiver come directly from the transmitter, others are signals which have been reflected from obstacles in the vicinity and some are even those transmitted by other transmitters. Normally, these signals reinforce each other. In extreme cases, however, if they are out of phase and have the same amplitude, the signals can cancel each other out:

40. Basic differences between analog terrestrial reception and DVB-T

Addition
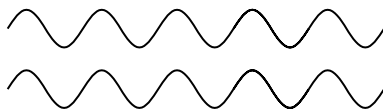
Cancellation
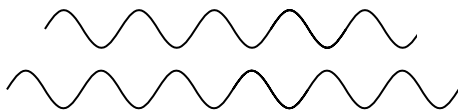
In most cases, only a few of the 8,192 carrier frequencies will be fully cancelled out and the information which is lost can be reconstructed by the error-correction function of the receiver. Reception becomes impossible only if very strong reflections cause the loss of too many carrier frequencies.

The phase relationship between two signals depends on the path taken by these signals on their way to the receiver.

If a rooftop antenna is used, almost all of the signals reach the receiver by the same path.

If an indoor antenna is used, the signals reaching the receiver may have been reflected from

- objects outside the building,

- objects such as thermally insulated windows (coated with metal films),

- reinforced-concrete parts of the building,

- persons in the vicinity or

- the furnishings of the room.

The signals may also have come from a different transmitter.

In such cases, the reception quality depends not only on the actual signal strength, but also on how many carrier frequencies are cancelled out.

Such problems can often be corrected by adjusting the position and the alignment of the antenna. In general, moving the antenna a few centimetres to one side, or tilting or turning the antenna, can improve reception far more than the use of an additional antenna amplifier.

☞ *Simply moving the antenna a few centimetres to one side can often cause the signals to be added together instead of cancelling each other out.*

A1. Set-up of satellite system LNB supply voltage

Calling the menu

☞ *Annex A only in the case of corresponding equipment or conversion.*

i The settings of the satellite antenna system must be entered in the menu "Configuration" so that the TV set knows them.

These settings should always be made in the order in which they are shown in the right-hand column of the menu, starting at the bottom, i.e. LNB supply voltage, DiSEqC system, etc..

LNB supply voltage

The LNB voltages for selection of the polarisation (horizontal H = 18V, vertical V = 14V) are already set and do not normally need to be changed.

If the cable to the satellite antenna is very long, the voltages reaching the LNB may be too low. In such cases, the voltages can be increased by 1 V by activating the line-compensation function.

If any changes should be necessary, they can be made as follows.

Changing the settings

• Press the MENU key to open the TV menu.
• Press the red key ⏺ to open the menu "Configuration".
• Press the appropriate numeric key (in this example ❹ to select "DVB-S".
• Press the OK key and, in the setting window, use the ₋ ₊ key to switch the LNB supply voltage on or off.
• Press the Ok key to confirm the new setting.
• Press the EXIT key to close the TV menu.

☞ *If the TV set is connected to a community antenna, the LNB supply voltage must always be set to "Off".*

MENU
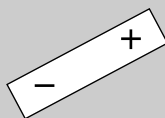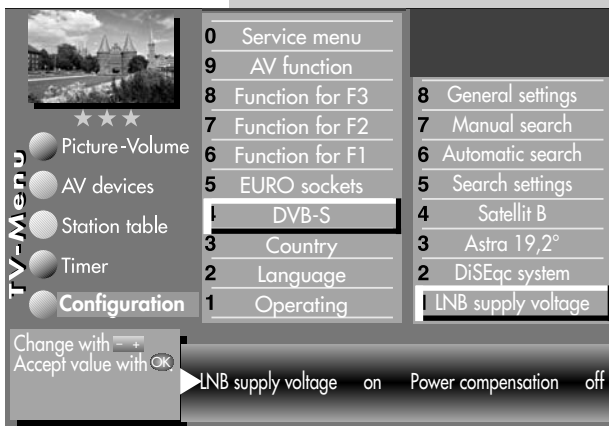
↩

❹

TV-Menu

★ ★ ★
● Picture-Volume
● AV devices
● Station table
● Timer
● **Configuration**

0	Service menu
9	AV function
8	Function for F3
7	Function for F2
6	Function for F1
5	EURO sockets
	DVB-S
3	Country
2	Language
1	Operating

8	General settings
7	Manual search
6	Automatic search
5	Search settings
4	Satellit B
3	Astra 19,2°
2	DiSEqc system
1	LNB supply voltage

Change with ₋ ₊
Accept value with OK

▶ LNB supply voltage   on   Power compensation   off

₋ ╱ ₊

(OK)

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

105

A1.1 Set-up of satellite system DiSEqC system
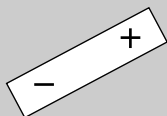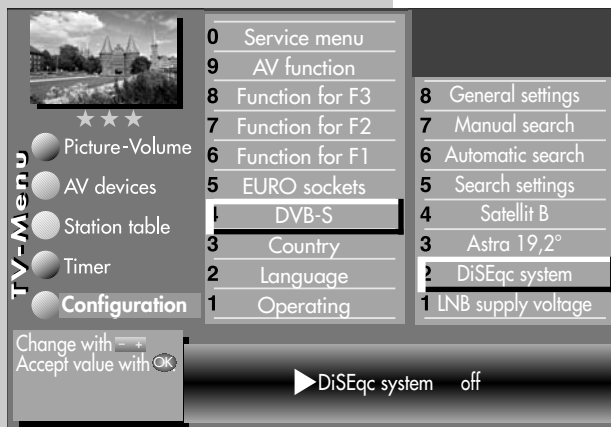
i "DiSEqC" makes it possible to control the satellite antenna digitally via the existing antenna cable and is a prerequisite for the reception of signals from more than two satellites (e.g. Astra, Eutelsat, Hotbird).

If you wish to receive signals from at least three satellites (e.g. ASTRA 19.2°, Eutelsat 16°, Hotbird 13°) the antenna system can be controlled only with the aid of "DiSEqC".

☞ *This menu item is not available in a 2** menu.*

MENU

⮌

❹   ❷

0	Service menu
9	AV function
8	Function for F3
7	Function for F2
6	Function for F1
5	EURO sockets
	DVB-S
3	Country
2	Language
1	Operating

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

8	General settings
7	Manual search
6	Automatic search
5	Search settings
4	Satellit B
3	Astra 19,2°
2	DiSEqc system
1	LNB supply voltage

Change with ─ +
Accept value with OK

▶ DiSEqc system   off

Switching DiSEqC on and off

- Press the MENU key to open the TV menu.
- Press the red key ⮌ to open the menu "Configuration".
- Press the appropriate numeric key (in this example ❹ to select "DVB-S".
- Use the cursor control key to select "DiSEqC system" and press the OK key to confirm the selection. The cursor is now located in front of "DiSEqC system" in the setting window.
- Use the ─ + to select "Yes" or "No".
- Press the OK key to confirm the new setting.
- Press the EXIT key to close the TV menu.

─ +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
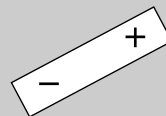
A1.2 Set-up of satellite system Selecting satellites

You can set up to four satellites in the menu "Configuration". No satellite is set in the factory.
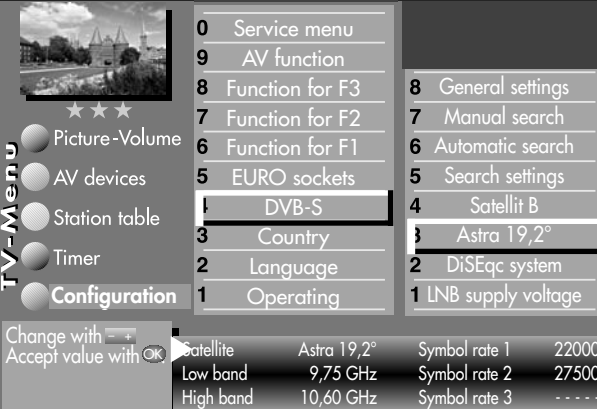
The LNB frequency is used to switch between the high and low frequency bands. The default frequencies **Low band 9.75 GHz** and **High band 10.60 GHz** are set in the factory.

Selecting satellites

- Press the MENU key to open the TV menu.
- Press the red key 🔄 to open the menu "Configuration".
- Press the appropriate numeric key (in this example 4 to select "DVB-S".
- Press the appropriate numeric key (in this example 3 to select "Satellite A".
- Use the **- +** key to select the desired satellite. The most common satellites are displayed one after the other, together with the symbol rates for each one. Depending on the satellite, it may be necessary to set additional **symbol rates** manually if the selected satellite uses different symbol rates and you wish to find the related transponders in an automatic station search.

- Use the cursor control key to select "Low band" or "High band". The settings depend on the components installed in the satellite antenna. For the correct settings, please consult the data sheet or the label of the LNB(s) being used.
- Press the OK key to confirm the new settings.
- Press the EXIT key to close the TV menu.

MENU

🔄

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0	Service menu
9	AV function
8	Function for F3
7	Function for F2
6	Function for F1
5	EURO sockets
	DVB-S
3	Country
2	Language
1	Operating

★ ★ ★

Picture-Volume
AV devices
Station table
Timer
Configuration

8	General settings
7	Manual search
6	Automatic search
5	Search settings
4	Satellit B
3	Astra 19,2°
2	DiSEqc system
1	LNB supply voltage

Change with - +
Accept value with OK

Satellite	Astra 19,2°	Symbol rate 1	22000
Low band	9,75 GHz	Symbol rate 2	27500
High band	10,60 GHz	Symbol rate 3	- - - - -
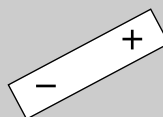
− +

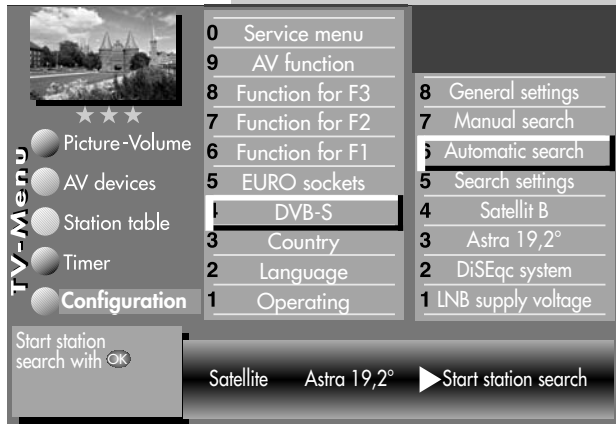**OK**

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
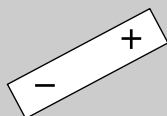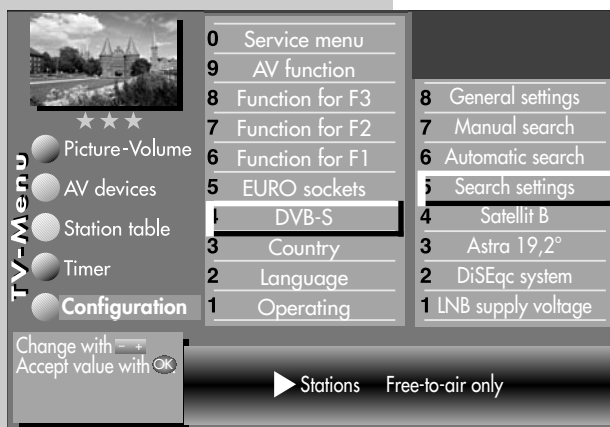
Before executing a DVB station search, you must make the appropriate search settings.

Depending on the features installed in the TV set and your personal requirements, you can make the following settings:

All = search for all stations on the selected satellite.

FTA only = search only for unencrypted (free-to-air) stations on the selected satellite.

FTA (CI) = search for all FTA stations and stations which can be received with the CI module.

The menu item "FTA (CI)" is available only if a CI module has been installed and a CA module is plugged into it.

MENU

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❺

Making the search settings

- Press the MENU key to open the TV menu.
- Press the red key ⤺ to open the menu "Configuration".
- Press the appropriate numeric key (in this example ❹ to select "DVB-S".
- Press the appropriate numeric key (in this example ❺ to select "Search settings".

	0 Service menu	
	9 AV function	
	8 Function for F3	8 General settings
★ ★ ★	7 Function for F2	7 Manual search
Picture-Volume	6 Function for F1	6 Automatic search
AV devices	5 EURO sockets	5 Search settings
Station table	DVB-S	4 Satellit B
Timer	3 Country	3 Astra 19,2°
Configuration	2 Language	2 DiSEqc system
	1 Operating	1 LNB supply voltage

TV-Menu

Change with − +
Accept value with OK

▶ Stations   Free-to-air only

+
−

OK

EXIT

- Use the - + key to select the desired setting.
- Press the Ok key to confirm the new setting.
- Press the EXIT key to close the TV menu.

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.
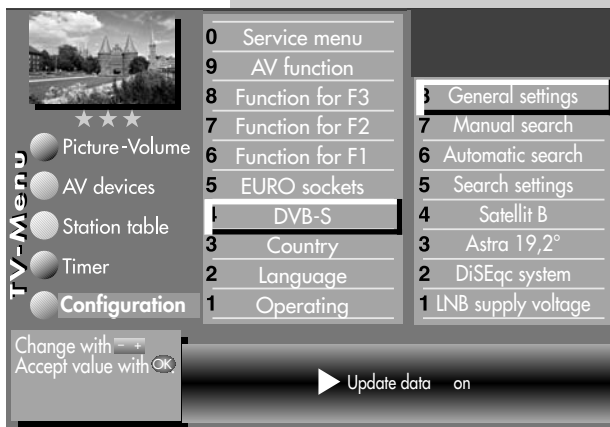
A2. Setting the stations
Automatic search

Calling the menu

The DVB-S station search scans the entire reception band for **TV** and **radio stations** and stores them in separate TV and radio station tables. For details of the DVB radio mode, see Section 29 in the operating instructions for the TV set.

If you are not satisfied with the order in which the stations are stored, you can move stations to other positions in the table or delete them. For further details, see Section 24, "Sorting stations" in the operating instructions for the TV set.

☞ *The station search will function correctly only if the LNB frequencies have been set and stored correctly.*

Executing the automatic station search

- Press the MENU key to open the TV menu.
- Press the red key ◉ to open the menu "Configuration".
- Press the appropriate numeric key (in this example ❹ to select "DVB-S".
- Press the appropriate numeric key (in this example ❻ to select "Automatic search".
- In the setting window, use the − + key to select the desired satellite.
- Use the cursor control key ▶ to move to the menu line "Start station search".
- Press the OK key to start the station search.

The TV set searches for the specified stations and places them in a station table, which is then displayed.

If desired, you can sort or move stations to other positions in the table or delete unwanted stations. For details, see Section 24 of the operating instructions for the TV set.

MENU

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	0 Service menu	
★★★	9 AV function	
	8 Function for F3	8 General settings
Picture-Volume	7 Function for F2	7 Manual search
AV devices	6 Function for F1	6 Automatic search
Station table	5 EURO sockets	5 Search settings
Timer	DVB-S	4 Satellit B
Configuration	3 Country	3 Astra 19,2°
	2 Language	2 DiSEqc system
	1 Operating	1 LNB supply voltage

TV-Menü

Start station search with OK

Satellite   Astra 19,2°   ▶ Start station search
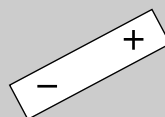
− +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

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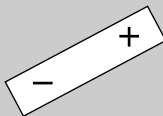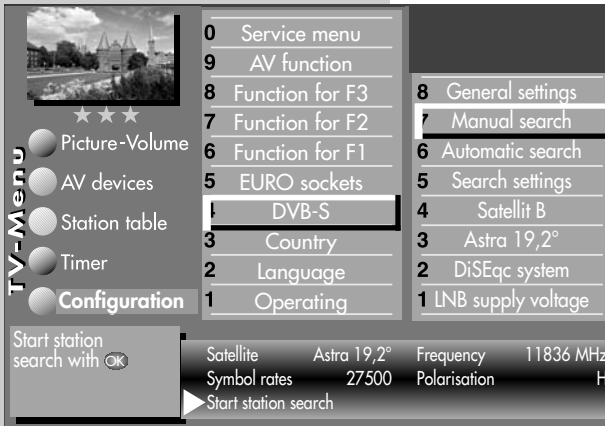
For the manual search, you must know the frequency, the symbol rate and the polarisation of the station for which you want to search.

MENU

Executing the manual search

- Press the MENU key to open the TV menu.
- Press the red key ⏎ to open the menu "Configuration"
- Press the appropriate numeric key (in this example ❹ to select "DVB-S".
- The cursor is located on the line "LNB supply voltage".

❹

❼

0	Service menu	
9	AV function	
8	Function for F3	8 General settings
7	Function for F2	7 Manual search
6	Function for F1	6 Automatic search
5	EURO sockets	5 Search settings
	DVB-S	4 Satellit B
3	Country	3 Astra 19,2°
2	Language	2 DiSEqc system
1	Operating	1 LNB supply voltage

★ ★ ★
Picture-Volume
AV devices
Station table
Timer
Configuration

TV-Menu

Start station search with OK

Satellite	Astra 19,2°	Frequency	11836 MHz
Symbol rates	27500	Polarisation	H
▶ Start station search			

- Press the appropriate numeric key (in this example ❼ to select "Manual search".
- The cursor then moves to "Satellite". If more than one satellite is available, use the ₋ ⁺ key to select the desired satellite.
- In the setting window, use the cursor control key ▶ to select the menu line "Frequency".
- Use the numeric keys or the ₋ ⁺ key to set the frequency.

₋ ⁺

- In the setting window, use the cursor control key ▼ to select the line "Polarisation" and use the ₋ ⁺ key to select " H=Horizontal" or "V=Vertical".
- In the setting window, use the cursor control key ◀ to select the line "Symbol rates" and enter the symbol rate with the numeric keys.
- In the setting window, use the cursor control key ▼ to select the line "Start station search" and press the OK key to start the search.
  The station is placed in the station table. If desired, you can sort or move stations to other positions in the table or delete unwanted stations.
  For details, see Section 24 of the operating instructions for the TV set.

OK

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

A2. Setting the stations Updating the data

Calling the menu

With the menu item, "General settings", you can specify whether or not the data are to be saved in the non-volatile memory of the TV set when transmission parameters are changed.

This update function applies to stations which use different transmission parameters at different times of the day, such as when they transmit regional programmes.

Setting the data update function

• Press the MENU key to open the TV menu.

• Press the red key 🔄 to open the menu "Configuration".

• Press the appropriate numeric key (in this example ❹ to select "DVB-S".

• The cursor is located on the line "LNB supply voltage".

• Press the appropriate numeric key (in this example ❽ to select "General settings".

• In the setting window, use the – + key to set "Update data" to "On".

	0 Service menu		
	9 AV function		
	8 Function for F3	**8** General settings	
★ ★ ★	**7** Function for F2	**7** Manual search	
Picture-Volume	**6** Function for F1	**6** Automatic search	
AV devices	**5** EURO sockets	**5** Search settings	
Station table	**4** DVB-S	**4** Satellit B	
Timer	**3** Country	**3** Astra 19,2°	
	2 Language	**2** DiSEqc system	
Configuration	**1** Operating	**1** LNB supply voltage	

Change with – +
Accept value with OK

▶ Update data   on

• Press the OK key to confirm the new setting.

• Press the EXIT key to close the TV menu.

MENU

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❽

– +

OK

EXIT

The number of subjects and sections depends on the selected scope of operation. Depending on the configuration of the TV set, the various menu items may be displayed in a different order and numbered differently.

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Problem	Possible cause	Remedy
TV set does not react to commands from the remote control	• No line of sight between the remote control and the TV set. • Sunlight is shining directly on the infrared window of the TV set. • Batteries of the remote control are exhausted. • TV set has been switched off with the main power switch. • Fault in the internal processor.	• Remove any obstacles between the units. • Prevent sunlight from shining on the set. • Replace the batteries. • Switch on the TV set with the main power switch. • Switch off the TV set with the main power switch, wait a few seconds and then switch it on again.
The message "Enter code" is displayed when the TV set is switched on.	• The childlock is active and was programmed to disable all stations.	• Enter the code you used when programming the childlock.
The TV set will not switch to a selected programme position. A teddy bear is displayed instead.	• The childlock is active and was programmed so that only the stations shown in the list beside the teddy bear may be selected.	• Enter the code you used when programming the childlock.
You have switched off the TV set with the ◎ key, but the green LED remains on.	• EPG data are currently being collected from the programmed EPG station.	• None. When all data have been collected, the TV set will switch itself off automatically.
Direct recording of an analogue terrestrial station (received via roof antenna or cable) with Data Logic does not work.	• The Data Logic video recorder is not connected to the roof antenna or cable outlet with a suitable cable.	• Connect the Data Logic video recorder to the roof antenna or cable outlet with a suitable cable.

Problem	Possible cause	Remedy
General problems with an external AV device connected to the TV set.	• The AV device has not been registered in the TV set.	• Open the menu "AV devices", select the device with the cursor, set the signal types (OUT/IN) correctly and press the "OK" key. Make sure that you connect the AV device as shown in the connection diagram.
Data Logic does not work.	• The Data Logic video recorder with data transfer has not been registered correctly.	• Open the menu "AV devices" and register the Data Logic video recorder as video recorder 1 with "Data Logic On".
	• The Scart cable does not have all pins connected through.	• Use a Scart cable in which all pins are connected through.
AV device (video rec.) independently breaks off recording	• Wrong data logic setting (see also ch. 19.1)	• Set the data logic setting to Mode 2 from Mode 1
A film in 16:9 format is played back from an AV device, but is displayed in 4:3 format.	• The picture format for this programme position has not been set correctly in the TV menu.	• Select the AV programme position and set the picture format to 16:9 or "Automatic" (see Section 37).
The menu of a connected AV device (such as a DVD player) is not visible on the TV screen.	• The AV device has been registered in the TV menu with the signal type "Composite video".	• Register the AV device with the signal type "RGB" (see page 68).

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Connect a PC

To connect a PC to the LCD TV, you must first register the PC with the LCD TV; see Chapter 25 "Registering AV Devices".

Set the signal type for the PC to DVI-A (analogue with VGA cable) or DVI-D (digital with DVI cable), depending on the connection type. Use a suitable connection cable to connect the PC to the LCD TV.

Power on the LCD TV, press "AV", and select the "PC" connection with the respective number key.

Power up the PC and wait. Usually, the LCD TV will recognise the PC and display the image. If possible, select a resolution of 1920 x 1080 pixels @ 60 Hz.

If these steps do not result in a satisfactory display of the PC image, proceed as follows:

1. Before you connect the PC to the LCD TV, set the resolution to 1024 x 768 pixels and the refresh rate to 60 Hz. For graphics cards with two outputs (e.g., VGA and DVI), set the operating mode to "clone" to display the same image on both outputs.

2. Install the latest graphics-cards driver. Most graphics cards have an ATI or nVidia graphics chip.
   For all ATI-based graphics cards, the drivers can be downloaded from www.ati.com (often "catalyst drivers").
   The latest drivers for all nVidia-based graphics cards are available at www.nvidia.com.

3. If you use the analogue VGA graphics-card output, use a fully wired 15-pin VGA cable in order to ensure that the information exchange between the PC and the LCD TV works (DDC)

Portal stations

Various pay TV stations broadcast portal stations. These portal stations are filled with sub-stations or optional channels.

In station search (see ch. 22) in "Search settings" the setting "all", "only free" or "free+CICAM" must be set so that these stations can be found too.

After a station search, the portal stations and the accompanying optional channels (may also be identified in the station table as SID=xy) will be shown in the station table on various program places.

We have programmed a simple way for you to find optional channels quickly.

If you select a portal station via the station table (see p. 9), a suitcase symbol appears next to the station logo.

This suitcase can be opened by pressing the white button ⑨ repeatedly. All optional channels included in this suitcase then appear in the station table. Other stations are not shown simultaneously.

In this way, you can switch quickly between the optional channels.
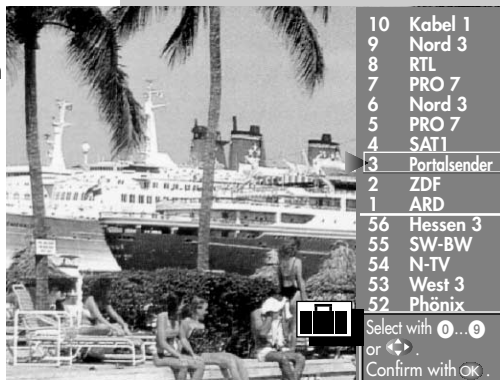
Various programs are transmitted with several audio channels (e.g. multilingual or Digital Audio AC3).

If you are receiving a multilingual programme the information box on the bottom left of the screen features the 🔳 logo.

Press F2 to see the list of available languages.

Pr 30   👥 Stereo
arte
05.04.07

F2

Special fuctions 2

1 Normal/Speech
2 Language of progr.

9 Timer overview
0 Direct recording

2

1 German
2 France

◁ OK ▷

Open menu:

- Press F2.
  Press F2 briefly to run the function programmed for the key (see Chapter 18. "Programming function keys").

Press F2 for approx. 3 seconds and the max. possible selection is displayed.

- Press numeric key **2** and select the "Programme language" function.

- Select a language with the cursor control key ▲▼.
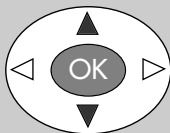
DIGITAL AUDIO Symbol in grey:
other audio options e.g. dd = "Dolby digital" are available but are not selected.

DIGITAL AUDIO Symbol in white:
One of the audio options has been selected.

Battery disposal

Do not dispose of batteries with domestic rubbish! Please return spent batteries to collecting points should they exist in your country.

Please only return fully discharged batteries. Normally, batteries are fully discharged if the device they power

• switches itself off and indicates "batteries spent"

• they no longer function flawlessly after prolonged use.

To prevent short circuits, please cover the battery poles with adhesive tape strips.

These symbols can be found on batteries containing harmful substances:

Pb = the battery contains lead

Cd = the battery contains cadmium

Hg = the battery contains mercury

Li = the battery contains lithium

Your Metz product was developed and manufactured with high-quality materials and components which can be recycled and/or re-used.

This symbol indicates that electrical and electronic equipment must be disposed of separately from normal garbage at the end of its operational lifetime.

Please dispose of this product by bringing it to your local collection point or recycling centre for such equipment.

This will help to protect the environment in which we all live.

Errors excepted. Subject to changes !

❶ Service Centre
❷ Training Centre
❸ Administration and development
❹ Storage/Dispatch
❺ Mecablitz production
❻ TV production
❼ Plastics technology
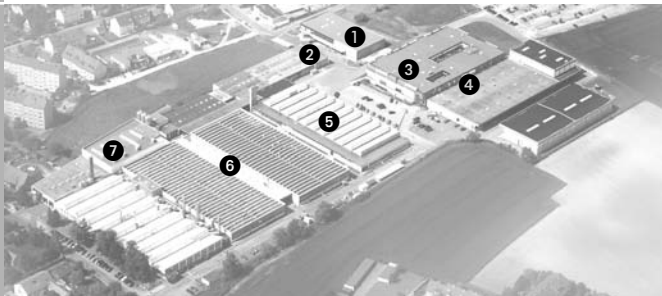
Metz - Werke GmbH & Co. KG - Zirndorf near Nürnberg

Core competence in the areas of electronics and plastics technology to form the basis of the excellent reputation of the Metz Werke that has been built up throughout the world over a period of many decades.

Metz offers quality made in Germany:
Consumer electronics, mecablitz flash units,
plastics technology and industrial electronics.

Metz - always first class.