TechniSat

manual

TechniStar K2 ISIO

**Digitale HD-Receiver
with
Internet functionality**
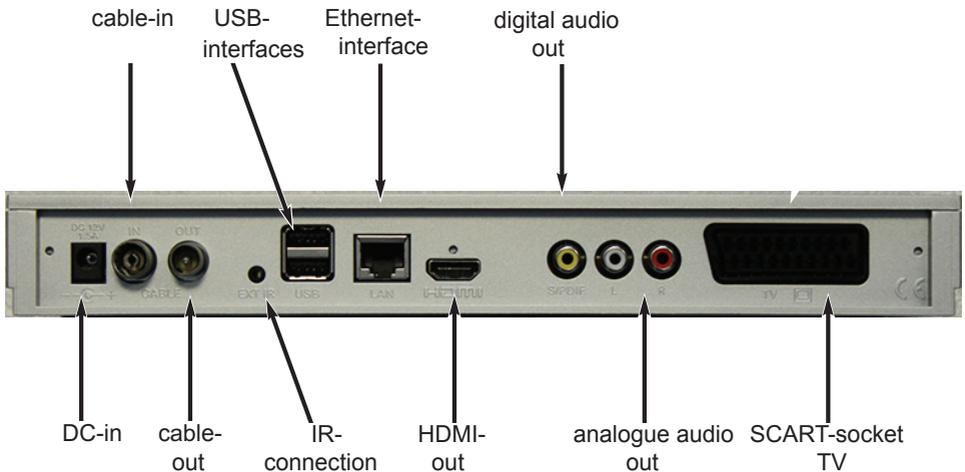
DVB
Digital Video
Broadcasting

DOLBY
DIGITAL

HDMI

3.0 ▶ 3.1

SiehFern
INFO

isipro
Programm-
listenaktualisierung

1 illustration

LED-display   TV/Radio   ON/Standby

arrow button up/down

CI-slot
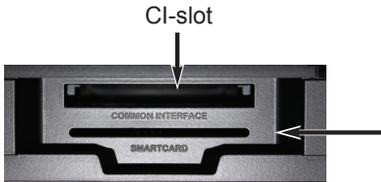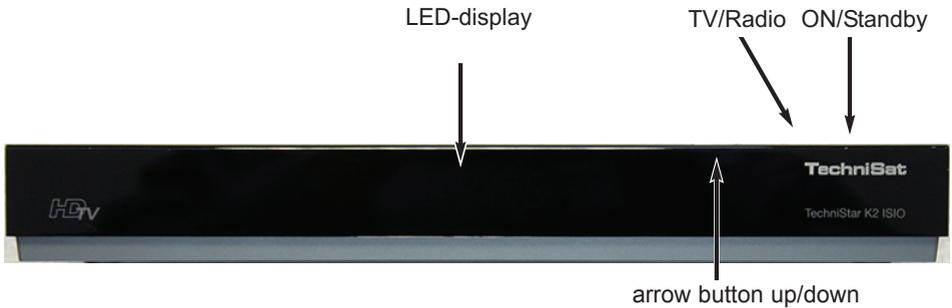
card reader:
> Insert the CONAX-Smartcard
  (golden Chip face down and alingned
  in insertion direction) till the as far as
  it willl go.

Inserting the CI / CI+ -module:

> Please refer to the manual of the manufacturer of the CI / CI+ -module
  and the card.

> Insert the appropriate smartcard in the corresponding
  CI-module.

> Insert the CI-module into the CI-slot carefully.

cable-in   USB-interfaces   Ethernet-interface   digital audio out

DC-in   cable-out   IR-connection   HDMI-out   analogue audio out   SCART-socket TV

2 Please read this first

Before connecting and using the device, first check that everything has been supplied and familiarise yourself with the safety instructions.

You should have received:

   1 Digital receiver, 1 Remote control, 2 Batteries (1.5V micro-cell), 1 HDMI cable, 1 mains cable.

2.1 Safety instructions

For your own protection you should read the safety precautions carefully before using your new receiver.
The manufacturer accepts no liability for damage caused by inappropriate handling, or by non-compliance with the safety precautions.

Function-related discharge current may occur with electrical equipment. This is acceptable and poses no risk, even if it is experienced as a slight tingling.
To prevent such discharge current, mains operated devices (receivers, TVs etc) must always be installed or connected with the power switched off, i.e. all devices must be disconnected from the mains.

- Only operate the receiver in a temperate climate.
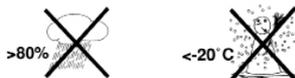
- To ensure adequate ventilation, place the receiver on a flat, horizontal surface and do not place any objects on top of it. There are ventilation slots here to allow heat to be dissipated from the interior of the unit.

- Do not place any burning objects, such as lit candles, on top of the receiver.

- Do not expose the receiver to water droplets or water spray, and do not place any objects filled with liquid, such as vases, on top of it. If water gets into the unit, immediately remove the mains plug and inform the service department.

- Do not operate any sources of heat near the receiver which may also heat it up.

- Do not obstruct the ventilation slots.

- Do not open the receiver housing under any circumstances! You risk receiving an electric shock. Any necessary repairs to the receiver should only be carried out by qualified service personnel.

In the following circumstances you should disconnect the device from the mains power and consult an expert:

> the power cable or mains plug is damaged

> the device has been exposed to moisture or liquid has got into it

> there are significant malfunctions

> there is severe external damage

2.2 Periods of non-use

During a storm or lengthy period of non-use (e.g. holiday), the receiver should be disconnected from the mains and the antenna cable removed.
Before you disconnect the receiver from the mains, you should first switch it to standby mode and wait until the time appears in the display or the red LED light is displayed.

2.3 Important notes on operation

Operation of the digital receiver is simplified through the use of so-called "On Screen Displays" (OSD). This also means that the number of keys on the remote control unit is reduced.

All functions are displayed on screen, and can be controlled by means of a few control buttons.

Functions that are logically related are combined into a "MENU". The selected function will be highlighted.

The red, yellow, blue and green function keys are indicated by coloured bars at the bottom of the screen. In the various menus, these coloured bars represent different functions, which can be implemented by pressing the appropriately coloured keys (multi-function keys) on the remote control. The function keys are only activated when a brief description is displayed in the appropriate field.
The button identifications and terms that appear in the OSD menu are shown in **bold** type in this operating manual.

Help: where available, press the **blue** function key in the menus to display the help text; press again to close the help window.

2.4 Important information on data security

Before handing your receiver over to your supplier for maintenance purposes, we recommend that you remove all storage media or data carriers.

Restoring data is not part of maintenance or repair work. TechniSat accepts no responsibility for the loss of, or damage to, data during repair work.

2.5 Disposal advice

The packaging material used for your receiver consists entirely of recyclable materials. Please sort the components appropriately, and dispose of them in line with your local waste disposal regulations.
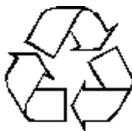
At the end of its useful life span, this receiver may not be disposed of with your regular household waste. It must be taken to a recycling collection point for electrical and electronic equipment.

This is indicated by the symbol on the product, the operating manual or the packaging.

The materials used can be re-used in accordance with their labelling.
By ensuring that valuable raw materials in old equipment are re-used, you can make a valuable contribution towards protecting our environment.

Please contact your local authority for the location of the nearest recycling point.

Please ensure that spent batteries removed from the remote control and electronic waste items are not sent to your regular household refuse site, but are correctly disposed of (either in special bins for problem waste, or at collection points in the retail trade).

3 Important notice

Dear customer,

This quick start manual describes the most important connection options and basic operation steps to enable you to quickly start using the TechniStar K2 ISIO.
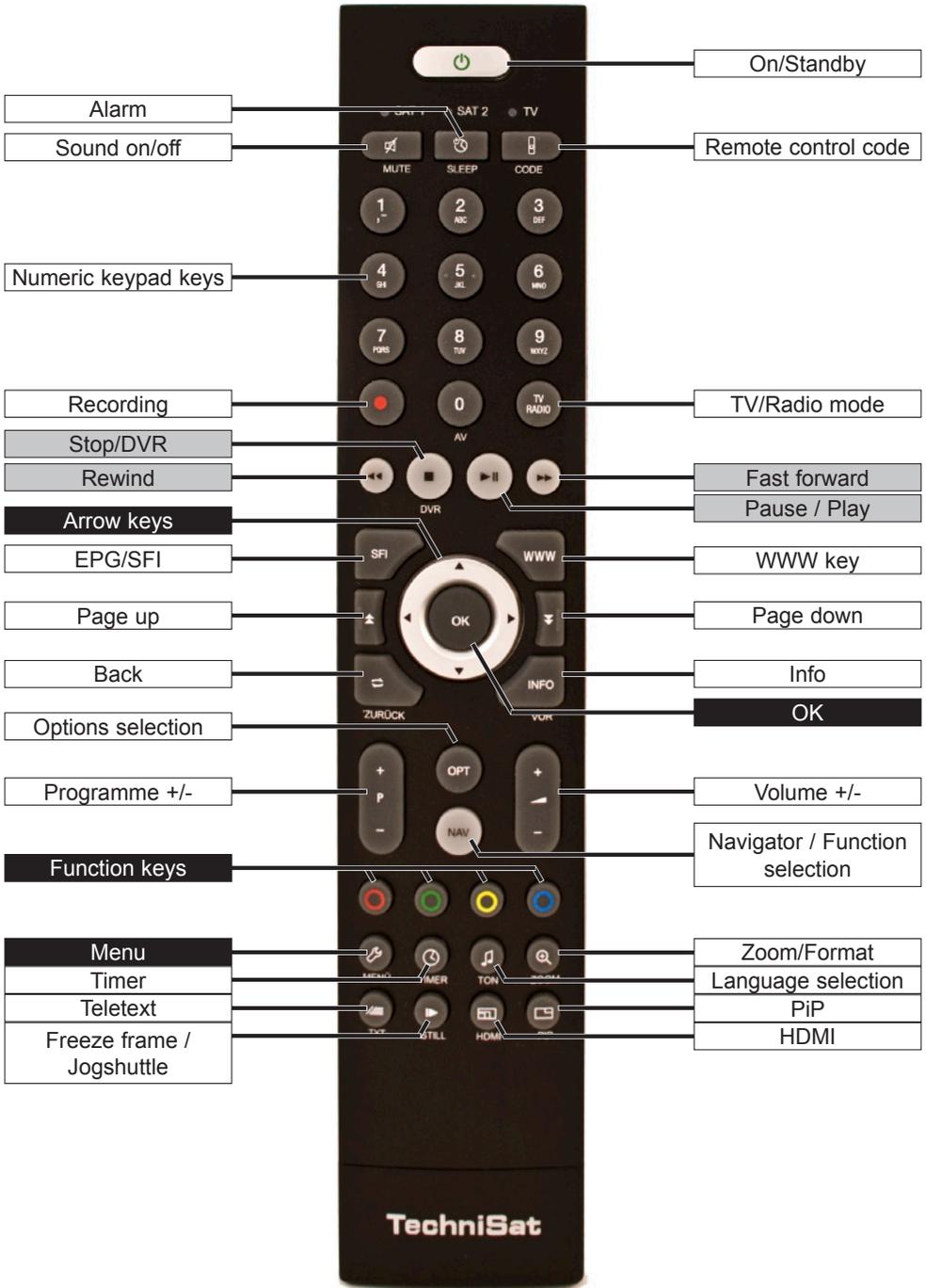
4 Remote control

4.1 Changing the battery

> Open the cover on the battery compartment at the rear of the remote control by pushing it in the direction of the arrow and then lifting it off.

> Insert the supplied batteries, ensuring that the poles are the right way around (indicator visible in battery compartment).

> Close the battery compartment again.

4.2 Remote control code

By switching over the remote control option it is possible to use this remote control to operate one TechniSat television and two TechniSat receivers using the same coding.

> Hold down the **remote control code** button to switch over the remote control option and press the **OK** button as often as necessary until the LED for the desired remote control option (**TV**, **SAT1** or **SAT2**) flashes briefly.

ⓘ The currently set remote control code will be displayed, as the appropriate LED flashes, while pressing a button.

	On/Standby
Alarm	
Sound on/off	Remote control code
Numeric keypad keys	
Recording	TV/Radio mode
Stop/DVR	
Rewind	Fast forward
	Pause / Play
Arrow keys	
EPG/SFI	WWW key
Page up	Page down
Back	Info
	OK
Options selection	
Programme +/-	Volume +/-
	Navigator / Function selection
Function keys	
Menu	Zoom/Format
Timer	Language selection
Teletext	PiP
Freeze frame / Jogshuttle	HDMI

TechniSat

5 Connection of the DVB-Receiver

a.   connnection to the power supply

b.   connection of the cable - input of the DVB-Receiver with the antenna socket of the cable network .

c.   connection of cable-out with the antenne in of the TV set.

d.   HDMI-connection of the DVB-Receiver with the TV set.

e.   Scartverbindung des DVB-Receivers mit dem Fernsehgerät.

f.   Connection of the audio-out with a HiFi- / Surround-sound device.
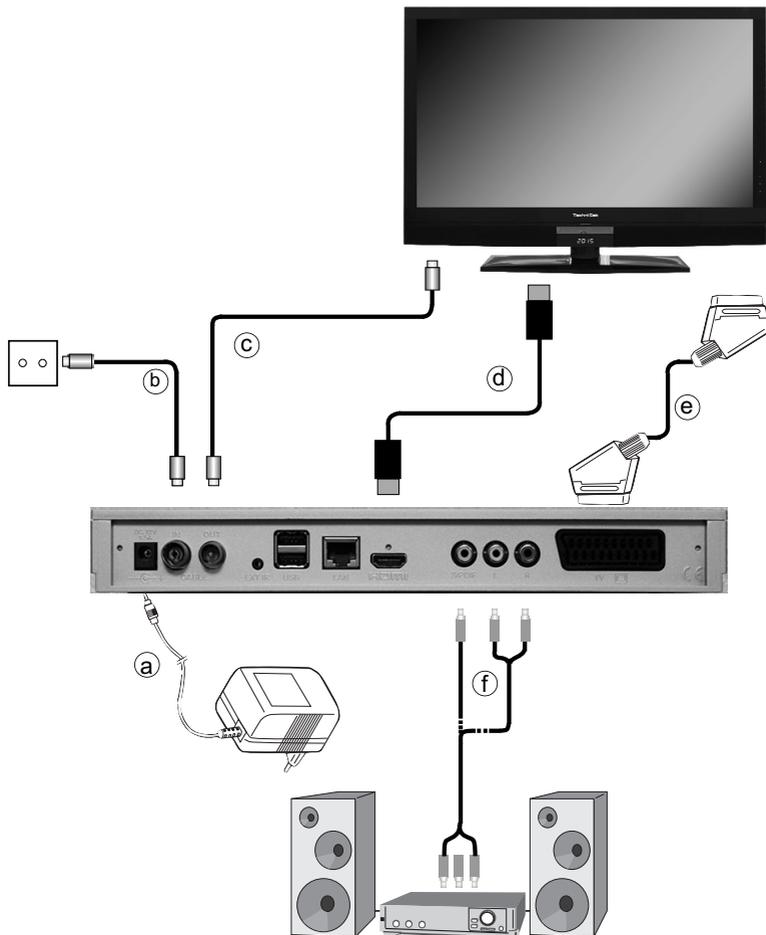
Die im folgenden erscheinenden Verweise **a b c** usw. beziehen sich auf die Zeichnung auf Seite 18.

5.1 Connecting the power supply

The digital receiver should be connected to the power supply only when the de vice is completely wired to all the required components. This prevents damage to the receiver and other components.

a Once all the connections are made according to the procedures set out below, the receiver (now connected to the power supply) should be plugged into a 230 V / 50–60 Hz outlet.

5.2 Cable connection

5.2.1 connection of a DVB-Receiver

b Connect the antenna cable to the antenna input on the receiver.

5.2.2 connection of a TV set

c Connect the receiver (HDMI output) to the TV (HDMI input) with an HDMI cable. If the TV has the appropriate features, it will switch automatically to the HDMI input once the digital receiver is turned on.
Alternatively:
d Connect the TV to the receiver with a SCART cable.

5.3 HiFi / surround sound amplifier

e For optimal sound quality, the digital receiver can be connected to a HiFi / surround sound amplifier.

5.3.1 Digital connection

e If the amplifier has the correct power input, the
DIGITAL AUDIO OUT port should be connected to the power
or optical in slot on the amplifier.
Depending on the station, the available sampling rates are 32, 44.1 and 48 kHz.
This input also has a Dolby Digital signal, if one is sent out.

5.4 USB port

The USB port is used to update the software, display images and play music and movies.

5.5 Network port (RJ45)

You can use the network port to connect the receiver to your existing network. This enables you to use the app bar and HbbTV applications offered by programme providers

and to connect to the Internet.

6 Initial installation

The first time you boot up the device, the AutoInstall installation wizard will be displayed in the startup window. Use the installation wizard to easily set up the key settings on the digital receiver.

Explanations of possible setting options will appear at each step in the instal
lation.

To stop the initial installation, click on the

of the installation wizard. The device starts up with the standard default program.

During the subsequent steps of the installation, press the green function key to confirm the settings and move to the next step.

Press the red function key to go back to the previous step and correct incorrect settings.

Follow the on screen instructions.

Language
> When the installation wizard is first launched, a language selection window is
displayed.

Selecting the country
> Use the arrow keys to select the country in which the device is used.
This selection will set the time zone and will sort the program list.

AV-Ausgang
>Please choose with the arrow buttons on the left/right, if you have connected the device with a Scartcable (EuroAV) or a HDMI/YPbPr-cable to your TV - Set.
>Please press OK, to set your choice.

Aspect ratio
> Use the left / right arrow keys to set the aspect ratio of the connected TV. This selection will automatically fit the image to the TV.

Netzwork configuration

A automatic check of the network configuration is made in this step.

> Do you not want to check the network configuration please ush the button INFO.

> If you like to check or change the network settings, please push the OPTION button

> Please use the arrow buttons up/down for choosing wether you like to configure a LAN or WLAN and press OK.

> Please check the nework settings as descripted in point 6.6.2 and 6.6.3 of the manual.

> Please push the info button for saving your settings, the test of the network configuration will start again.

Searching for stations

To search for a station:

> Using the up / down arrow keys, select "All Channels"
if you want to search for all encoded and uncoded channels or "All
Uncoded Channels" if you you want to search for public channels.
> The green function key is used to search
all channels automatically.

Software updates

Once the antenna set-up is complete, the digital receiver checks for all available
updates for the device. Any available updates can be performed automatically.

Channel search / ISIPRO (where available)

You have various options for searching for new channels or updating the channel list. You
can use the ISIPRO channel list function to download a new channel list for your receiver
from the satellite or run a channel search.

> To download an up-to-date channel list, use the **up/down arrow keys** to highlight
the **ISIPRO - service list update** item.

> To download the available current channel list, use the **up/down arrow keys** to
highlight the **ISIPRO - service list update** item and start the process by pressing
the **OK** button.

(i) The current channel list will now be downloade d via satellite. Please obser
subsequent screen display s and notes.

> If you want to run a channel search via satellite instead of updating the channel list,
or if the DVB-S reception signal has not been configured, use the **up/down arrow**
(i) **keys** to highlight the **All channels** or **All unencrypted channels** field, then
start the channel search process by pressing the **OK** button.

(i) In this search, all selected satellites in the antenna configuration are automatically
scanned for channels. This procedure may take several minutes. Please take note of
note all messages displayed on the screen.

If the channel search/channel list update has been skipped, the default channel list is loaded.

Loading EPG/SFI data

Your digital receiver has the EPG/SFI (**EPG = E**lectronic **P**rogramme **G**uide) electronic programme guide. You must first get the receiver to download the EPG/SFI data from the satellite to enable electronic programme guide data to be displayed.
For this reason, the receiver will automatically start downloading the EPG/SFI data after the channel list update or channel search is completed. This process can take up to 30 minutes.

> If you want to check or modify the network settings, press the **Options key**.

> Use the **up/down arrow keys** to select whether you want to configure a LAN or WLAN network and press the **OK** button.

> Now create the network settings.

> The press the **Info** button to accept the settings. The network configuration check will then restart.

Exiting the installation wizard
> Confirm the final message displayed in the installation wizard by pressing the green function key "Finish" to return to normal mode.

7 Basic operation

Dear customer,

The following section starts by covering basic operation as well as recurring operating steps for the receiver. This should make it easier to read the instruction manual, since it avoids repeated description of identical steps at each individual stage.

If a function or setting for the device has to be different from the basic operation, the difference in operation is described in detail at the relevant point in the instruction manual.

The so-called "On Screen Display" is used on your receiver. This simplifies operation of the receiver since the buttons on the remote control can take on different functions, which makes it possible to reduce the number of buttons.
In this **O**n **S**creen **D**isplay (**OSD** for short) the selected functions or settings are highlighted. Furthermore, you will see a line at the bottom edge of the screen in which the various buttons on the remote control are shown with their current functions.

In this instruction manual the terms shown in the OSD as well as the buttons to be pressed are highlighted from the rest of the text by the display format used.

⚠ Warning - indicates an important note which you absolutely should observe in order to avoid problem s with the device, loss of data or unwa nted operation.

ⓘ Tip - indicates a note about the function described as well as other functions associated with it and any others to be observed with reference to the respective place in the instruction manual.

7.1 Switching the device on/off

> When the receiver is on standby, you can switch it on by pressing the **On/Standby** button on the remote control/device.
> When operating normally you can switch the device to standby mode by pressing the **On/Standby** button.

7.2 Calling up the main menu and navigating through the menus / functions

The following example will illustrate how you reach the main menu and call up a submenu. The objective of the example is to call up the **Picture settings** menu.
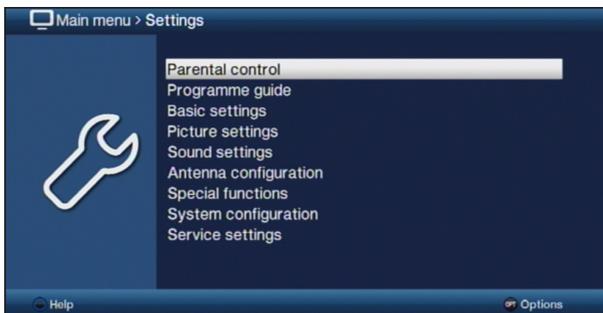
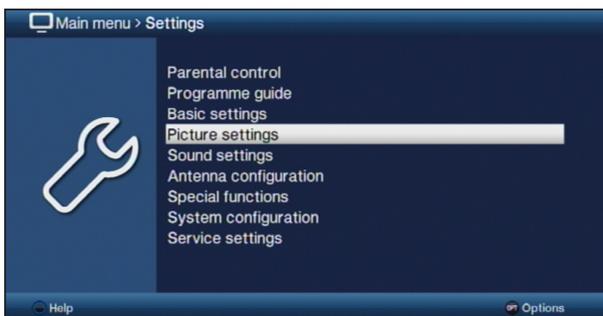> Press the **Menu** button. The main menu appears on the screen.

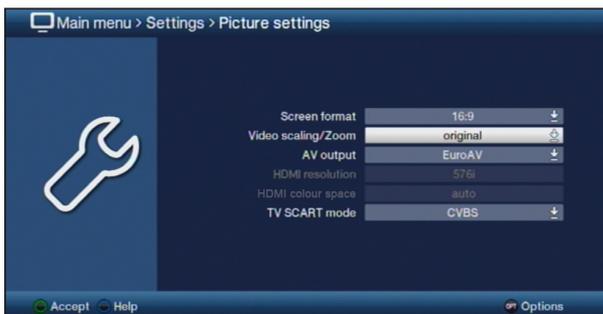> Select the **Settings** menu item by moving the highlight over this item using the **arrow keys**.
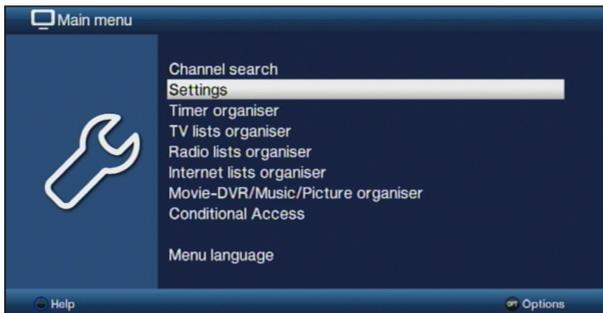
> Press the **OK** button to open the **Settings** menu.

> Use the **up/down arrow keys** to highlight the **Picture settings** item.

> The **Picture settings** menu is opened by subsequently pressing the **OK** button.

ⓘ   You can also highlight the individual menu points in the same way as you highlight an item on a submenu to open it and alter the respective settings.

ⓘ   The menu items in some menus have to be highlighted by moving sideways. This is done by pressing the **right/left arrow keys**.

ⓘ   By pressing the **up/down arrow keys** it is possible to move the highlight from line to line and to move upwards and downwards page by page using the **page up/down** buttons.

ⓘ   You will see the so-called menu path in the uppermost line of the menu. This shows you the menu you are currently in and the path you took to reach this menu. In the example shown this is **Main menu > Settings > Picture settings**. The menu path is also shown throughout the instruction manual and shows you how you can reach the respective menu with the settings described.

ⓘ   If the **blue** function key with **Help** is displayed in the bottom line on the screen, a Help page can be displayed by pressing this button and hidden by pressing it again.

7.3 Accepting settings / Exiting menus and functions

In some menus and functions, the changes made must be accepted manually in order to save them permanently. If this does not happen, the values that existed before leaving the menu or the function will be reset automatically.

ⓘ   If an **Accept** field or the **green** function key with **Accept** is displayed in the bottom line of the screen, you can see that the changes made must be saved manually to be accepted.

> By highlighting **Accept** using the **right/left arrow keys** and confirming with the **OK** button or by pressing on the **green** function key (**Accept**), the changes are saved and you return to the next menu level up.

Alternatively:

> Press the **Back** button.
  A request appears asking whether the changes you made should be applied.
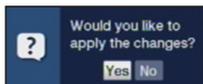
> Using the **right/left arrow keys** highlight **Yes** or **No** and confirm your selection by pressing the **OK** button.
  Changes will now be saved or discarded according to your selection and you return to the next menu level up.

Alternatively:

> Press the **Menu** button to leave the menu directly.
  The settings that need to be saved manually will be reset in this case.

ⓘ   If the **green** function key with **Accept** is not displayed in the bottom line of the screen, the changes are saved automatically when leaving the menu.

7.4 Changing a setting

You can create settings using the **arrow selection method**, the **selection list**, by **entering numbers** and by using the **virtual keyboard**. The device dictates the method that can be used to alter a highlighted setting. You can see this from the following displayed symbols:

- ⟨⟩   **Arrow selection method** (Point 7.4.1)
       Arrows are shown on the left or right edge of the highlight.
- ⚓   **Selection list** (Point 7.4.2)
       The symbol is shown on the right edge of the highlight.
- ???? **Entering numbers** (Point 7.4.3)
- ♫   **Virtual keyboard** (Point 7.4.4)
       The symbol is shown on the right edge of the highlight.

7.4.1 Arrow selection method

> If ≪ is shown on the left and ≫ on the right next to the set value, you can alter this using the **left/right arrow keys**.

7.4.2 Selection list

If ⚓ is shown on the right next to the set value, the value is changed using the selection list.
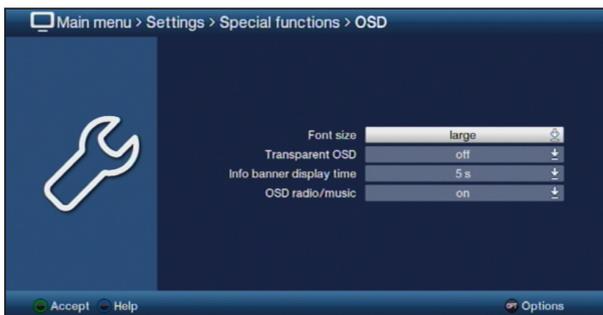
> Press the **OK** button to open the selection list.

> Highlight the setting you want using the **up/down arrow keys**.

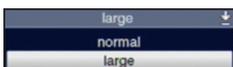ⓘ By pressing the **up/down arrow keys** it is possible to move the highlight from line to line and to move upwards and downwards page by page using the **page up/down** buttons.

> Confirm by pressing the **OK** button. The selection list is closed again and the selected setting is shown in the menu.
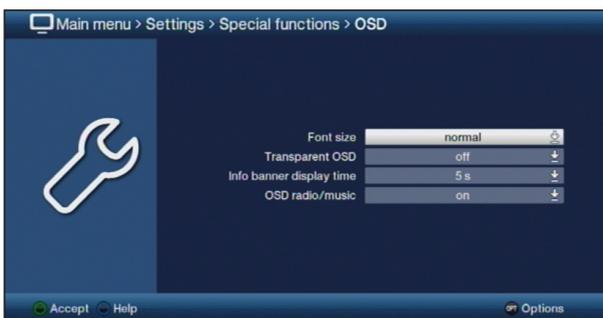
7.4.3 Entering numbers

> Enter the new setting you want using the **numeric keypad key** if a question mark [????] or a number value [12109] or [__0] is shown inside the highlight.

ⓘ Note the number of digits used in the entry as there must always be the same number used. This means that if a five-digit value is required, for example "10600", but you only wish to set a four-digit value, for example "9750", you must enter a "0" at the beginning for every unused location. Therefore, in this example, it would be necessary to enter "09750".

7.4.4 Virtual keyboard

If ⌨ is shown on the right next to the set value, the value is amended using the virtual keyboard. You have three different keyboard options when using this data entry method. You can switch the keyboard layout between the so-called QWERTY keyboard and the alphabetic keyboard; an SMS keyboard can also be used at any time.
The functionality of the QWERTY keyboard is identical to that of the alphabetic keyboard. They only differ in the arrangement of the various letters, numbers, characters and symbols.

> Press the **OK** button to open the virtual keyboard.
  The keyboard now appears in the alphabetic format.

> You can switch to the QWERTY keyboard and back to the alphabetic keyboard by pressing the **Option** button.

You can now enter the term you want as follows.

Arrow keys:	Moves the highlight on the keys of the virtual keyboard.
OK:	The highlighted character is added to the end of the term, or the highlighted function is executed.
🔼 / **Yellow** function key:	The keyboard switches between upper case/lower case.
◀ / **Red** function key:	Pressing/holding down deletes the character in front of the blue highlight/the whole entry.
↵ / **Green** function key:	The entered term is accepted.
🔵 / **Blue** function key:	The keyboard switches to the alternative characters.
◀ ▶ :	Moves the blue highlight within the term.

The SMS keyboard is operated using the **numeric pad** on both the alphabetic and the QWERTZ keyboard and can be used at any time. Therefore the coloured buttons incorporate the functions described above.

> Press one of the **numeric pad keys 0** - **9** and select the various letters, numbers, characters and symbols.
  The first letter of the respective row of characters is highlighted after first pressing a **numeric pad key**.

> The highlight then moves one field to the right for every additional press of the same **numeric pad key**.
  Press as often as necessary to reach the desired character. This will be added to the entered term after a short delay.

The various **numeric pad keys** are assigned the following displayed letters, numbers, characters and symbols.

0:	[_____]	**5**:	[_____]	
1:	[_____]	**6**:	[_____]	
2:	[_____]	**7**:	[_____]	
3:	[_____]	**8**:	[_____]	
4:	[_____]	**9**:	[_____]	

ⓘ Once you have reached the field you want with the highlight, you can then begin selecting the next character immediately since, in this case, the character is directly added to the term.

ⓘ If you wish to continue directly selecting a character from the same **numeric pad key**, you can add the previously highlighted character to the term by pressing the **right arrow key**.

7.5 Option selection

In some menus and operating modes (e.g. TV mode, music/images playback, etc.) you have the option of calling up additional functions and options via Options selection.

> Pressing the **Option** button opens the options selection in the lower right-hand corner of the screen.
> In this example we can see the options selection for the channel list.

> Every additional press of the **Option** button moves the highlight down one line each time.

ⓘ Some options are selected directly in this window. Other options for a number of subordinate selection options are located in the options groups. Highlighting one of these options groups automatically opens another window on the left.

> You can use the **up/down arrow keys** within the options group to highlight one of the options listed in there.

ⓘ By pressing the **up/down arrow keys** it is possible to move the highlight from line to line and to move upwards and downwards page by page using the **page up/down** buttons.

> The highlighted option is selected by pressing the **OK** button and you exit the options selection area.

> If you do not want to select an option or wish to leave the options selection area without making any changes, simply press the **Option** button until it is hidden.

8 Operating the unit

8.1 Switching on

> Switch the digital receiver on by pressing the **On/Stand-by** button either on the receiver panel or on the remote control.

Or

> Change to an unblocked channel

ⓘ If the user-dependent parental control (TechniFamily) is activated, the user selection will appear.

8.2 Switching off

> Press the **On/Stand-by** key either on the receiver panel or on the remote control to switch the receiver off again.

> The receiver is now in standby mode, and the time is displayed on the receiver panel. If the time is not shown, the receiver still needs to acquire it. To do this, switch the receiver on and set it to receive a local TV channel for approx. 30 seconds to automatically acquire the time.

8.3 Channel selection

8.3.1 Using the channel up/down keys

> Use the **up/down arrow buttons** on the receiver to select a channel, or use the **Channel +/-** buttons on the remote control to scroll up or down the channel settings.

8.3.2 Using the numeric pad keys

> Use the **numeric keypad keys** to enter the number of the channel you want.

For example:

1			for channel slot 1
1, then **4**			for channel slot 14
2, then **3**,	then **4**		for channel slot 234
1, then **5**,	then **6**,	then **7**	for channel slot 1567

When entering channel numbers with multiple digits, you have approx. three seconds after pressing a key to complete the entry.
If you wish to enter a number consisting of only one, two or three digits, you can speed up the entry procedure by keeping the key depressed a little longer on the last digit.

8.3.3 Using the Navigator (channel list)

> Press the **OK** button.
The channel list navigator is now displayed. In TV mode only TV channels are shown, and in radio mode only radio channels are shown.
The channel currently selected is highlighted.

> You can view additional data about the current programme by pressing the **Info** button.

8.3.3.1 Selecting a channel

> You can now highlight the channel you want using the **up/down arrow keys**, the **page up/down** keys and the **numeric keypad keys**.

> Press the **OK** button to select the highlighted channel.

8.3.3.2 Selecting a list

To make it easier for you to find channels, your receiver provides various channel lists. You can select your **Favourites lists**, or display channels in a **Total list** sorted alphabetically, or by **broadcaster**, or by **genre**.

> Press the **OK** button.
> The active channel list is now displayed.

> You can now use the **options selection** to select the channel list you want (**favourites list**, **Astra list**, **TV provider lists**, **genre lists** and **Total list**).

8.3.4 Calling up blocked channels

If a programme is selected that is blocked by the parental control function, the message **Device PIN** will be displayed on the screen.

> Use the **numeric keys** to enter your PIN code.
> The channel you want will be displayed.

(i) If global parental control is enabled, the device PIN code will be requested again when the blocked channel is switched on. To make things easier for you, you only need enter the PIN code once during each operating phase.

8.3.5 Returning to last channel selected

> Press the **Back** button on the remote control to return to the last channel selected.

> Press the button again to return to the channel you were previously watching.

8.3.6 TV/Radio switchover

> You can use the **TV/Radio** button to switch between TV and radio mode.

ⓘ The device switches to the last radio channel listened to.

ⓘ Alternatively you can also switch between TV and radio operation.

8.3.7 Infobox

An Infobox appears on the screen for the period set in the **Special Functions menu** every time you change channels.

This Infobox displays the location and name of the selected channel, the title of the current programme and the currently active channel list.

ⓘ The progress bars are coloured yellow according to the amount of transmission time already expired for the current programme. If the beginning of the progress bar is coloured red the transmission started too early and if the end of the progress bar is coloured red the current programme has overrun.

Additional programme properties are also displayed:
For example:
TxT for teletext
16:9 for 16:9 broadcasts
☒ for encrypted channels
DDD for Dolby Digital broadcasts
✎ for subtitles
HbbTV for HbbTV

The current time is shown in the right-hand upper corner of the screen.

8.4 Receiving encrypted channels

> Insert the CONAX smartcard into the card slot in the integrated card reader. (gold-coloured chip facing down, and in the direction of insertion).

Or

> Insert a CI / CI+ module into the slot.

> Insert the smartcard into the CI / CI+ module card slot. Ensure that the gold-coloured chip on the smartcard is facing upwards, in the direction in which the card is inserted.

8.5 Volume control

You have the option of adjusting the volume on your digital receiver. This facilitates operation of the receiver, as it means you can access all the major functions on a single remote control, and will only rarely have to resort to using the remote control for the TV.

> To adjust the volume of your TV, press **Volume +** to increase the volume, and **Volume -** to decrease it.

8.5.1 Switching to mute

> To switch the sound off (mute), press the **Sound on/off** button - press the key again to switch the sound back on.

ⓘ   Throughout the time that the volume is switched to mute, the 🔇 symbol appears at the upper right of the screen.

8.6 Selecting a different language / sound option

For some channels you have the option of selecting a different sound option (Dolby Digital, Stereo or Audio Channel 1 or Audio Channel 2) or another language.

> Using **options selection** you can select the language/sound option you want via the **Audio** option.

8.7 Freeze frame

> Press the **Freeze frame** key; the current TV picture will be displayed as a still picture.
> Press this key again to return to normal operation.

ⓘ   The sound will continue to be reproduced normally during freeze frame.

8.8 Teletext

Your receiver can display teletext information on channels that broadcast teletext data. This is displayed via the 📺 symbol in the Infobox.

> Switch on the channel from which you wish to view the teletext information.

> Pressing the **Teletext** button switches the teletext on, where the selected broadcaster is broadcasting teletext information.

Teletext group   Teletext block

8.8.1 Page selection

> Use the **numeric keypad keys 0** to **9** to enter the 3-digit page number of the teletext page you want.

> Use the **coloured** function keys to call up the pages displayed in the respective fields.

8.9 HbbTV

(i) HbbTV (**H**ybrid **b**roadcast **b**roadband **TV**) is a technology that enables broadcast and Internet content to be linked. This enables access to interactive added-value services and multimedia offerings from programme providers.

The 📺 symbol in the Infobox indicates that the programme provider is offering an HbbTV application.

(i) Display and use of the HbbTV application is determined by the data received. Generally it is basically operated as described below.

> Switch to a channel that is broadcasting HbbTV data.
> This is indicated via the 📺 symbol in the Info box. After a few seconds the box appears at the lower right of the screen indicating the availability of HbbTV content.

> Launch the HbbTV application by pressing the **red** function key.

(i) Depending on the speed of the Internet connection, there may be slow response times or short interruptions.

> In the HbbTV application you can use the **arrow keys** or the keys displayed there to move the highlight.

> You can use the **OK** button to confirm the highlighted item and call this up, as long as the highlighted item has additional subitems.

> You can exit the HbbTV application by pressing the **Back** button or by pressing the colour button displayed in the application itself.

(i) During operation please be sure to take note of messages and displays on the screen.

8.10 Subtitles

When switching to a programme being broadcast with subtitles, the subtitles symbol 📄 appears in the Info box.

> Using the **options selection**, under the **Subtitles** menu item, you can select subtitles when you want to display them.

8.11 Picture zooming

> By pressing the **Zoom/Format** key you can switch between the various predefined formats (**original**, **optimum**, **optimum 16:9**, **full screen** and **stretch**).

> Repeat this process to switch off the zoom.

The zoom function remains enabled until you switch it off again or switch the receiver to standby mode.

8.13 Electronic Programme Guide (EPG/SFI)

Your digital receiver has an electronic programme guide. This allows you to display channel information relating to one or more channels on your screen.

You can very quickly obtain an overview of the programmes currently being broadcast, the programmes for that day or those for subsequent days.

8.13.1 Calling up the Electronic Programme Guide (EPG/SFI)

> Press the **EPG/SFI** button to call up the electronic programme guide.

ⓘ The electronic programme guide is displayed using the start category. The **Overview** start category is selected in the factory settings.

8.13.2 EPG/SFI overview

1 Viewing time > indicates when programmes are to be shown. Time line > a graphical display of the viewing time in the form of progress bars.

2	Channel name with the corresponding channel slot within the active favourites list.
3	Progress bars or the start/stop time of the programme being shown.
4	The current date and the time.
5	Shows that there is further information available about the broadcast.
6	Programmes on the channel being shown.

> You can access the various SFIplus views and functions using the **Options selection** as well as via the assigned **function key** located at the lower edge of the screen.

> You can switch the display time back and forth or move the marking with the aid of **the right/left arrow keys**, the **up/down arrow keys** and the **page up/down** button.

> You can exit the electronic programme guide again by pressing the **EPG/SFI** button.

8.14 Timer recordings

Your device has the following timer functions:

1. DVR timer
This function is used to switch your digital receiver on and off to record the recording medium selected in the **Recording Media Settings menu** while you are out.

2. Video recorder timer
If the video recorder timer is selected, your digital receiver will be switched on and off for the selected programme, allowing you to record programmes to an external recording unit, e.g. a video cassette or DVD recorder, while you are out.

3. Channel switching timer
If your receiver is in normal operating mode, it will switch to the programmed channel slot at the set time.

4. Alarm
If your receiver is in standby mode, it is switched on when the programmed channel slot is reached at the set time.

5. Series timer
To make it easier to find programmes, you can search for programme data highlighted in the EPG/SFI using any terms. The series timer function is used to automatically generate ongoing DVR timer settings for the programmes you find. Timer setting also continues after the EPG/SFI data has been updated. This removes the need for repeated manual programming of timers, e.g. to record episodes in a TV series.

8.15 Selecting a function

> You can open the Navigation menu (**NAV menu**) to select the function you want by pressing the **Navigator/function selection** button.

> Use the **up/down arrow buttons** to highlight the function you want to access.

TV	TV mode: playing TV programmes.
Radio	Radio mode: playing radio programmes.
Internet	Internet mode: calls up the web links available in the Internet list.
Movies/DVR	Film/DVR Navigator: access MPEG2 titles, VOB, TS, TS4 or DIVX files stored on an shared network on a device connected to the USB port.
Music	Music navigator: access MP3 titles stored on a connected USB device or a shared network drive.
Pictures	Pictures navigator: access JPG files stored on a connected USB device or a shared network drive.

> Confirm with **OK** to select the highlighted function.

(i) When doing so pay careful attention to the information and settings for global and user-dependent parental control.

8.16 Internet

Your device can use an existing broadband connection to access the Internet. To do this the receiver must be connected to the home network/DSL router via either LAN or WLAN.

Internet access provides you with various Internet functions such as unrestricted browsing, use of interactive services, video on demand and the new **ISIO Live** TechniSat service portal.

8.16.1 Using the Internet list to call up websites

> From normal mode press the **WWW** button.
  The Internet List Navigator now appears. The web link last called up is highlighted.

> You can now highlight the web link you want using the **up/down arrow keys**, the **page up/down** keys and the **numeric keypad keys**.

> Pressing the **OK** button opens the highlighted web link.
  The time it takes for the selected site to be displayed depends on the selected site and the bandwidth of your DSL connection.

8.16.1.1 Selecting a list

Your receiver provides various Internet lists to make it easier for you to find web links. You can select and display all your configured **Favourite lists**.

> Open the Internet list.

> Use the **Options selection** under the **Internet lists** item to select the Internet list you want.

8.16.2 Calling up websites by entering an address directly (URL entry)

In addition to the option of using pre-programmed web links, you can call up the websites you want by manually entering the address/URL (**U**niform **R**esource **L**ocator).

> From normal mode press the **WWW** button **twice times**.

Or:

> In the **Options selection** select the **Enter URL** item.

> The **virtual keyboard** is opened, which you can use to enter the address/URL that you want.

8.16.3 Navigating the opened website

> After the website you want has been loaded and displayed, either a frame highlighted in colour, an area highlighted in colour or a term or text highlighted in colour appears somewhere on the screen.

(*i*) This highlight/frame represents the current position of the cursor.

> You can use the **arrow keys** to move the highlight/frame for the areas provided (e.g. a forwarding link, a button, dropdown list etc).

> The associated action is accepted by pressing the **OK** button.

Paging forwards/backwards

> By pressing the **Back** button you can page back through previous pages, and by pressing the **Info** you can page forwards to subsequent pages.

8.16.4 Tabs

To make it faster and easier to switch between websites you have visited during a single session, you can create up to three different tabs.

(*i*) The tabs are closed when that particular session ends.

> Call up a website.

> In the **Options selection**, select the **Tabs** item. The available tabs are displayed.

New tab

> To open a new tab, use the **up/down arrow keys** to highlight the **New tab** item.

> Pressing the **OK** button now automatically calls up the pre-programmed **ISIO Live** web link.

> You can now call up any website in this new tab.

Switching between tabs

> To open an existing tab, use the **up/down arrow keys** to highlight the tab you want and confirm with **OK**.

8.16.5 Refreshing page content

Sometimes it is wise/necessary to refresh the content of an opened web page.

> In the **Options selection**, select the **Refresh** item.

8.16.6 Cancelling the loading process

> To cancel or interrupt the loading of a web page, use the **Options selection** to select the **Cancel** item.

8.16.7 Adding a Favourite to the Internet list

Frequently used websites can be added to the Internet list to make it easier to access them later.

> First use the **URL entry** to call up the website you want to add to the Internet list as a Favourite.
> Then in the **Options selection** select the **Add to Favourites** item.

The link to the website you called up is added to the end of the Internet list. This can now be allocated to any position in the Internet list or added to other Favourites lists.

8.16.8 Search engine

> By using the **Options selection** to call up the **Search** item, the search engine web page is automatically called up.

8.16.9 Status

The status display gives you a quick overview of the technical details for the active web page.

> To do this, select the **Status** item in the **Options selection**.
> You can use the **up/down arrow keys** to select the **General** status or the **security status** and display this by pressing the **OK** button.

8.16.10 Ending the Internet session

> To switch from a web page you have called up back to normal mode, press the **WWW** button three times or press the **TV/Radio** button.

9 Operating the DVR

The DVR function (**DVR**=**D**igital **V**ideo **R**ecorder) means you no longer have to use an external recorder (e.g. video or DVD recorder) to record programmes, as you can use this function to record them to an attached USB storage device or inserted SD/MMC card.
The recording capacity thus depends on the volume of data in the broadcast material and the size of the storage medium (USB storage medium, eSATA hard disk, SD/MMC card).

9.1 DVR recording

(i)   Before you start a DVR recording, please define in the **Recording Media Settings** menu which data storage device should be used as a recording medium.

The following recording modes are available for DVR recording:

1. Instant recording
Select this type of recording to immediately record the programme currently being broadcast at the push of a button.

2. Timer-controlled recording
This function is used to switch your digital receiver on and off to record the selected programme onto the recording medium while you are out. The timer can be either manually programmed or automatically programmed via the EPG/SFI function.

3. Timeshift recording
Timeshift recording enables time-shifted TV viewing. You can start to play back a programme while it is still recording (= time-shifting).

9.1.1 Instant recording

> Switch to the channel on which the programme you want to record is being broadcast.

> Press the **Record** button to record the current programme.

> Press the **Pause / playback** button to play back the current programme from a particular point.

> To continue playing back the programme from this point, press the **Play / Pause** button again.

(i) You are now watching the programme with a time delay to the live broadcast (**Timeshift**), while the programme continues to be recorded in the background.

9.1.2 TimeShift recording

> If you are watching a programme and are interrupted by e.g. a telephone call, you can press the **Play / Pause** button to pause the programme and start recording it at the same time.

> To continue playing back the programme from this point, press the **Play / Pause** button again.
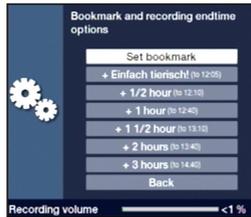
9.1.3 Ending manual recording

> If necessary first select the recording you want to end by selecting the channel on which the recording is running.

> Pressing the **Stop** button causes a query to appear as to whether the recording should be saved or discarded.

> Select **Store** to save the recording, **Discard** to discard the recording, or **Back** to continue with the recording.

9.1.4 Ending recording automatically

> Pressing the **Record** button causes a window to open containing all available functions.

Bookmark and recording endtime options

| Set bookmark |
| + Einfach tierisch! (to 12:05) |
| + 1/2 hour (to 12:10) |
| + 1 hour (to 12:40) |
| + 1 1/2 hour (to 13:10) |
| + 2 hours (to 13:40) |
| + 3 hours (to 14:40) |
| Back |

Recording volume ▬▬▬▬▬▬▬ <1 %

> You can, for example, select **+1 hour** for which the receiver should continue to record the channel and then automatically stop recording.

9.2 Timer recordings

You can use the DVR timer to record programmes to an attached recording medium while you are out. Your receiver is equipped with video recorder timers and channel-switching timers. In terms of their programming, these timer types differ only in name. You can programme the timers manually as described in this chapter, or use the EPG/SFI function.

9.3 DVR playback

You can access DVR recordings via the DVR Navigator.

9.3.1 Calling up the DVR Navigator / Starting DVR playback

The DVR Navigator can be called up in the following ways. Depending on whether you are in TV or radio mode, a list appears with all the TV or radio recordings present on an attached USB storage medium, eSATA hard disk or inserted SD/MMC card.

ⓘ The broadcast information can be displayed and hidden by repeatedly pressing the **Info** button.

> You can start to play back a recording by highlighting it and confirming with **OK**.

9.3.1.1 When in TV mode

> In TV mode press the **Stop / DVR** button to directly switch to the DVR Navigator.
Or
> Open the programme lists navigator by pressing the **OK** button and switch to the DVR Navigator by pressing the **Stop/DVR** button.
Or
> In the **function selection** select the **Movies / DVR** item.
> Now call up the **My Recordings** folder on your attached recording medium.

9.3.1.2 From playback of a running / existing DVR recording

> Press the **OK** button to open the DVR Navigator.

Or

> In the **function selection** select the **Movies / DVR** item.

> Now call up the **My recordings** folder on your attached recording medium.

9.3.2 Pause / Freeze frame

> To pause playback of a recording (Freeze frame), press the **Pause / Play** button during playback.

> Press the **Pause / Play** button again to resume playback from the same location.

9.3.3 Fast forward/rewind

Your DVR has **fast forward** and **rewind** functions so you can get to a specific place in a recording.

> Press the **Fast forward** or **Rewind** button during playback.
> The message **Fast forward** ▶▶ or **Rewind** ◀◀ appears.

> The recording will now play in the specified direction at 4x speed.

> If you press the **Fast forward** or **Rewind** button again, the speed will increase to 16x.
> The message **Fast forward** ▶▶▶ or **Rewind** ◀◀◀ appears.

> If you press the **Fast forward** or **Rewind** button again, the speed will increase to 64x.
> The message **Fast forward** ▶▶▶▶ or **Rewind** ◀◀◀◀ appears.

> By pressing the **Fast forward** or **Rewind** button again you can jump forwards or backwards in 10-minute increments.

> When you get to the place you want in the recording, you can return to normal playing mode by pressing the **Play / Pause** button.

9.3.4 Jog shuttle function

To quickly and accurately navigate to a position in the recording, your receiver also has a 'jog shuttle' function. This is used as follows:

> During playback press the **Jogshuttle** button (freeze frame) to access jogshuttle mode.

> By pressing the **right/left arrow keys** (repeatedly if necessary) you can change the speed and direction of the playback.

> Press the **right arrow key** once to play the recording in slow motion. The icon I▶ is displayed.

> Pressing the **up arrow key** or the **down arrow key** causes the next frame **forwards** or **backwards** to be shown.

9.3.5 Setting tags

> Skip as described above to a location in the recording where you want to add a tag.

> Pressing the **Recording** button sets a tag at the selected location.

ⓘ Tags can also be set or edited manually or automatically during recording and in the **DVR recordings** menu, where this is enabled in automatic programme tagging.

9.3.6 Jump to tags

During playback you have the option of navigating directly to locations in the recording where you have set tags.

> Using the **options selection** under the **Tag** menu item, select the tag to skip to the location you want in the recording.

9.3.7 Ending playback

> Press the **Stop** button to stop playback. Playback is ended and the receiver reverts to normal mode. In doing so the receiver "notices" the place in the recording where playback ended. If you start playing this recording again, it will automatically resume at the point where you previously left off.

> Then select **OK** in the query that appears to confirm or press **Abort** to cancel the process.
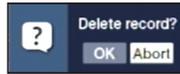
10 Troubleshooting guide

Fault	Possible cause	Solution
Remote control does not work	Wrong remote control code used.	Apply correct remote control code
	Batteries are spent	Replace batteries
Various channels not shown correctly in channel list	Wrong channel list selected	Select other channel list
Programmes such as DSF and Tele 5 have interference at certain times	Interference from cordless DECT telephones	Increase distance between base station and receiver
Sound OK, no TV picture	Radio mode called up and radio background image is switched off	Check setting
	Scart plug not connected correctly	Connect Scart plug properly
Picture not fully visible or distorted	Picture format not correctly set	Check picture format
	Wrong picture display / zoom selected	Check picture display / zoom in menu
		Check zoom setting
No picture, no sound, display not on	No mains voltage	Check mains adapter and plug
No HD picture	Configured HD resolution not supported by TV	Modify HD resolution for the correct device or connect via Scart lead
No sound via HDMI, picture OK	Wrong HDMI sound format selected	Check HDMI sound format
No sound or wrong audio playing	Dolby Digital active or wrong audio language selected	Check setting in menu
		Check Dolby Digital / language selection

Fault	Possible cause	Solution
Receiver cannot be operated, switched on or off	Defective data stream --> receiver blocked	Hold down the On/Stand-by button on the receiver or the remote control for approx. 5 seconds
		Disconnect mains plug for approx. 5 seconds, then reconnect receiver
		Perform Flash-Reset: **Warning!** All personal settings will be lost > Remove mains adapter from the receiver > Press and hold **Standby** and the **up arrow key** at the same time > Reinsert the mains adapter while **Standby** and the **up arrow key** are pressed down > Keep both buttons pressed down for approx. 5 sec. then release. "**Factory setting**" appears in the display
USB device not recognised	USB device formatted for wrong file system	Format USB device in the FAT32 file system
Device automatically switches off after a certain time	Auto Standby function enabled	Check Auto Standby setting and disable if necessary

Fault	Possible cause	Solution
PC cannot connect to receiver; Receiver cannot connect to network	Wrong network settings	Check network settings
	Network cable connected wrongly	Check network connection
DVR recording no longer possible	Selected storage medium is full	Delete existing recording(s)
		Attach and configure another storage medium
Cannot delete DVR recordings	File system on storage medium is corrupt	Check storage medium
DVR recordings not displayed	Selected storage medium is not attached	Connect configured storage medium
		Modify setting for storage medium
A second encrypted channel cannot be played	The two selected channels are not located on the same transponder	Select two channels that are located on the same transponder
	CI dual encryption is not switched on	Switch on CI dual encryption
	The CI/CI+ module being used is not "Dual Decrypt" compatible	Use a "Dual Decrypt" compatible module