



DSR 5580 Digital SAT-Receiver



Operating Instructions

SCHWAIGER[®]

Operating Instructions

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General information

Guarantee

The guarantee period begins with the purchase of the product. Please confirm this with your proof of purchase (receipt, invoice, delivery receipt etc.). Please keep these documents in a safe place. Our guarantee is based on our guarantee conditions in force at the time of purchase. In the case of a necessary repair, take or send in the unit to your specialist dealer.



The unit carries the CE mark and thus conforms to the fundamental requirements of the European directives 2004/108 EC for EMC and 2006/95 EC for LVD.

Disposal information for packaging

Packaging materials can be recycled and should always be submitted for recycling. Packaging materials such as plastic bags do not belong in the hands of children.

Safety and installation information

All of our products at the time of purchase conform to the currently applicable safety regulations and are, when used as intended, completely safe! Please heed the following information to avoid any potential dangers, damage or faults:

Location

Place the unit on a solid, secure and horizontal surface and make sure that it is well ventilated. Do not place the unit on beds, sofas, soft carpets or similar surfaces as this will block the ventilation slots on the base of the unit and interrupt the necessary air circulation. Make sure that the ventilation slots on the top of the unit are not covered up e.g. by newspapers, tablecloths or curtains. This could possibly cause the unit to catch fire.

As the unit generates heat and has rubber feet, this can lead to discolouration on the surface of furniture. If necessary, place the unit on a suitable base.

The heat generated when the unit is in operation must be dissipated by adequate air circulation, so the unit must not be covered up or situated in a closed cupboard.

You should also bear this in mind if the unit is supplied with an IR mouse (optional) and is situated, for example, behind the television set.

Make sure there is at least 10 cm of clearance around the unit. Radiators or other heat sources in the vicinity of the unit can lead to malfunctions or damage the unit. You must not place any open fire sources, such as burning candles, on top of the unit.

The unit must not be located in rooms with a high level of humidity e.g. kitchens or saunas, as the condensation water may damage the unit.

The unit is designed for use in dry, temperate environments and must not be exposed to dripping or splashing water.

If the unit is moved from a cold to a warm place, condensation may form inside the unit. Therefore leave the unit switched off for a few hours.

Mains connection

WARNING:

For units that are supplied with a mains adaptor, only use the original mains adaptor supplied with the unit! The mains adaptor / mains plug must only be connected to a 230 V~/50 Hz mains supply. The mains adaptor / mains plug must be accessible at all times so that the unit can be unplugged from the mains outlet. Only connect the mains adaptor / mains plug to an earthed power outlet!

The mains adaptor / mains plug must only be plugged in once installation has been completed according to the instructions. The unit must not be used if the mains adaptor / mains plug is faulty or the unit is damaged in any other way.

Avoid exposing the unit to water or moisture. Do not use the unit in the vicinity of bathtubs, swimming pools or splashing water.

Do not place any water holding containers, e.g. vases of flowers on top of the unit. These might fall over and the liquid may cause serious damage or lead to a risk of electric shock.

Should any liquids or foreign matter accidentally get into the unit, unplug the mains adaptor / mains plug from the power outlet immediately. Have the unit inspected by a qualified engineer before using it again.

Under no circumstances should you open the unit or the mains adaptor – this must only be carried out by a qualified engineer.

Do not let unsupervised children tamper with the unit. Do not let foreign objects, e.g. needles, coins etc fall into the interior of the unit.

Packaging materials such as plastic bags do not belong in the hands of children.

Do not touch the contacts on the back of the unit with your fingers or metal objects. This could cause a short circuit.

The unit must not be set up in the vicinity of appliances that generate strong magnetic fields (e.g. motors, loudspeakers, transformers). Use a suitable, easily accessible power outlet and avoid using multiple sockets!

Before cleaning the unit, it must be unplugged from the mains outlet. To clean the unit, use a soft dry cloth. Never spray cleaning agents directly onto the unit. Do not use any cleaning solutions that might damage the surface of the unit.

Do not handle the mains adaptor when your hands are wet – risk of electric shock! In the case of any faults or smoke and odours coming from the unit, unplug the mains adaptor / mains plug from the power outlet immediately!

You must not use the unit if water or foreign objects get into the inside of the unit or if the unit or mains adaptor has been damaged. The unit must first be inspected or repaired by a qualified engineer (technical customer service).

The receiver must be unplugged from the power outlet before connecting the antenna, otherwise there is a risk of damaging the antenna.

Before connecting the television to the receiver, the television must be unplugged from the mains outlet, otherwise there is a risk of damaging the television.

The antenna cable must be connected to the system earth of the satellite antenna. The earthing of the system must be carried out according to national safety regulations.

In the case of an impending storm, unplug the mains adaptor and antenna plug.

If the unit will not be in use for an extended period of time, e.g. before a long holiday, unplug the mains adaptor from the power outlet. Also remove the batteries from the remote control, as they may leak and damage the remote control. Normal batteries must not be charged, heated or thrown into an open fire (risk of explosion!).

Do not throw used batteries in the household refuse. Batteries are hazardous waste and must be disposed of accordingly.

Connecting up the receiver

The following connections are necessary before starting to use the receiver. You will find the corresponding markings on the back of the unit (see diagram on the next page). Carry out the steps described below for connecting up the receiver:

TV (6)	Use a SCART cable to connect the TV Scart socket on the receiver with the Scart socket on your television set.
IF-INPUT DIGITAL (4)	Connect your satellite system's coaxial cable to this socket. Warning: If, after connecting the receiver to the mains, the message "short circuit or antenna input overload!" is displayed on the screen, then there is a short circuit in the LNB cable or the LNB. In this case the receiver must be disconnected from the mains immediately until the short circuit has been dealt with.
AUDIO L/R (5)	If you wish to connect a music or stereo system, do so by using a stereo cinch cable to connect it to the AUDIO L/R sockets on the receiver. Remember to match the left and right audio channels correctly.
COMMON INTERFACE (12)	Common Interface Module slot.
VCR (9)	You can connect a video recorder to the VCR Scart socket. When the video recorder is switched to playback mode, the video and sound signals will be relayed to the television via the receiver (loopthrough mode).
USB (13)	You can connect a PC to the USB port in order to use further functions offered by the receiver.
DATA (7)	You can connect a PC to the DATA port in order to use additional PC-supported functions offered by the receiver.
DIGITAL OUT (optional) (10/11)	The receiver features an optical (10) and, as an option, an electrical connection (11) for a DOLBY DIGITAL signal. If your HiFi amplifier has a corresponding input, you can connect this to the DOLBY DIGITAL socket on the receiver.
230 V~ 50 Hz 40 W max. (8)	Connect the mains lead to the mains outlet. After the receiver has been connected to the mains, it will be in standby mode (the red LED will light up). When using the unit for the first time, the welcome menu of the installation assistant will appear.

Controls, displays and connections

Front of unit

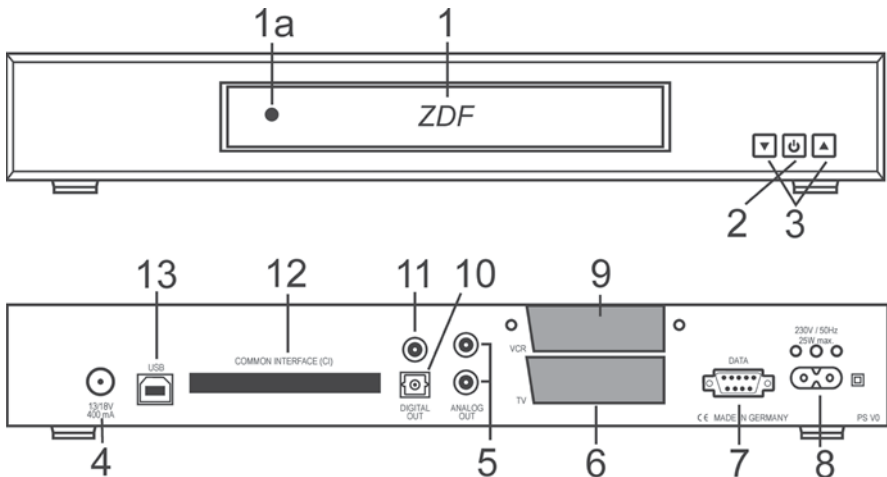
1 Display:

1a LED

Display	LED	
Red LED is lit	red	receiver is in standby mode.
Channel name		receiver is switched on.
REC		Timer recording is active
FAIL		short circuit or antenna input overload
MENU		OSD menu is being displayed
INIT		Installation assistant menu is being displayed

2 ON/OFF button (standby)





3 Buttons for changing channel: ▼ channel down, ▲ channel up

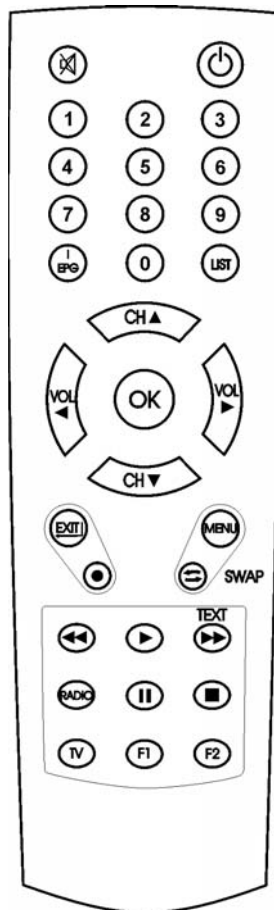


Back of unit

- 4 IF input digital – connection for your satellite antenna's LNB.
- 5 AUDIO L/R cinch sockets for connecting the receiver to an amplifier.
- 6 TV scart socket for connecting the receiver to a television set.
- 7 Serial interface for connecting to a PC to use additional PC-supported features of the receiver.
- 8 Mains socket for connecting the mains lead.
- 9 VCR scart socket for connecting a video recorder.
- 10 Optical output socket for DOLBY DIGITAL signal.
- 11 Cinch output socket for DOLBY DIGITAL signal (optional).
- 12 Common Interface slot for Conditional Access Modules.
- 13 USB 2.0 socket for connecting to a PC.

Remote control

-  On/off button
-  Sound off (MUTE)
- 0-9** Direct channel number input.
In the menu: enter channel parameters
- i/EPG** Call up the Electronic Programme Guide (EPG).
- LIST** Display the channel list.
- VOL ◀▶** Adjust volume.
In the menu: scroll through lists or change entered values.
- CH ▲▼** Change channel.
In the menu: select a menu line.
- OK** Quick channel information.
In the menu: Open, confirm or edit the currently highlighted entry.
- EXIT** Exit the currently active menu or OSD display.
-  Red record button, starts recording on the hard disk
- MENU** Activates the main menu. (Back with EXIT).
- SWAP** Switches between the two most recently selected channels.
In the menu: Move channels and swap lists.
- Red Button** Moves the cursor downwards in the video and sound option menus.
For hard disk operation: fast rewind
In the menu: delete function
- Blue Button** Displays video text.
For hard disk operation: fast forward
- Green Button** Displays the list of recordings, starts playback.
- Yellow Button** Switches between the video and sound option menus.
Opens the information menu. For hard disk operation: Pause button
-  Grey stop button, stops current recording or playback.
- RADIO** Switches between TV and RADIO mode.
- TV** Switches between TV and RADIO mode.
For timeshift operation: switches to normal TV picture
- F1, F2** For hard disk operation: Setting and managing markers



Inserting the batteries

Open the battery compartment on the underside of the remote control and insert both 1,5 V batteries (AAA type, LR03). Make sure the polarity is correct!

NOTE:

If some remote control functions are no longer functioning properly, you should replace the set of batteries. Batteries must not be exposed to excessive heat. Dry-cell batteries must not be charged.

First-time installation

After you have read through the safety information and successfully carried out the steps described in the section on connecting up the receiver, switch the unit on. When using the unit for the first time, you will see the welcome screen of the installation assistant. With the aid of the installation assistant you can configure the most important settings on your digital receiver with ease.

Menu language

In the first step of the installation use the **CH ▲** or **CH ▼** buttons to select the desired language for all menus and confirm this with **OK**.



Country

In the next step you enter the country in which you are using your digital receiver. Use the **CH ▲** or **CH ▼** buttons to select the country and confirm with **OK**. You can use the **EXIT** button at any time to return to step one of the installation so you can correct any mistakes at any time.



NOTE:

The choice of country will influence the sorting of the channel list.

Satellite

In the last step with the installation assistant use the **CH ▲** or **CH ▼** buttons to select the satellite that you want to have at the beginning of the channel list and complete the installation with **OK**. Once again, you can use the **EXIT** button to make corrections.

NOTE:

If the installation process is not completed (e.g. due to a power failure) or if the receiver is reset to factory default settings, it will start again with the welcome window.

When using the receiver with DiSEqC switches you may have to modify the preset configuration to suit your system in the menu *Installation – LNB configuration*.



Operating the receiver

Switching on and off

- You can switch on the receiver with the **OK**, change channel or one of the number buttons. The last active channel will be displayed. (e.g. 0015)
- To switch the digital receiver into standby mode, press the **button**. The red LED will light up.

NOTE:

The digital receiver is only fully disconnected from the mains when it is unplugged from the mains outlet.

WARNING:

Unplugging the mains plug while the unit is running can shorten the life of the integrated hard disk. Therefore please always switch the receiver into standby mode before disconnecting it from the mains.

Selecting operating mode

You can choose between TV (television programmes) and RADIO (radio stations) modes.

- Select the desired mode with **RADIO** or **TV**.

Adjusting the volume

The volume cannot be adjusted while in menu mode.

- Set the desired volume using **VOL ◀** or **VOL ▶**.

A volume bar will be displayed on the screen.

NOTE:

Changes in volume regulate the sound signals to the TV, VCR and AUDIO L R sockets on the digital receiver.

Turning off the sound (Mute)

- Press the **MUTE** button: the sound is now muted. A symbol will appear in the bottom right corner of the screen.
- Press the **MUTE** button again: the sound is now on again.

Channel selection

1. Normal channel changing:

Move back and forward through the channels by pressing the **CH ▲** or **CH ▼** buttons as many times as required. To scroll quickly through the channels hold down one of the **CH ▲** or **CH ▼** buttons for as long as necessary.

2. Selecting channels directly:

Enter a one- or multi-digit channel number using the buttons **1–0** on the remote control then press **OK** to call up the channel directly. Unassigned channel slots will be ignored.

3. Selecting channels from the channel lists:

Pressing the **LIST** button displays the last active channel list or favourites list. Browse through the channel list with **VOL ◀ ▶**. Use **CH ▲** or **CH ▼** to select the channel you require and call it up with **OK**.

Pressing the **LIST** button twice displays the following menu:



Favourites list: a personal list of your favourite channels.
Radio list: a list of the stored radio stations.
TV list: a list of the stored TV channels.
Alphabet: a list of the stored TV channels and radio stations in alphabetical order.

Use **CH ▲** or **CH ▼** to select the desired list and confirm with **OK**.
Then use **CH ▲** or **CH ▼** to select the desired channel and confirm with **OK**.

In the Alphabet list, all channels are sorted in alphabetical order. To search for a channel, press **SWAP** to switch to the window with the letters of the alphabet. Using **CH ▲ ▼** and **VOL ◀ ▶**, select the first letter of the channel you are searching for and confirm with **OK**. This will display the page of the channel list on which channels beginning with the relevant letters are stored. Press **SWAP** to return to the channel list then select the desired channel with **CH ▲ ▼** and **OK**.

4. Switching from the current to the previous active channel:

- The digital receiver remembers the most recently active channel.
- Press **SWAP** to switch from the current to the previous channel.
 - Press **SWAP** to switch back again to the current channel.

Each time you change channel, the title and running time of the current and following programmes will be displayed. Below the channel number you can see a display showing the progress of the current programme.

You can also call up this information by pressing the **OK** button.

Selecting a channel while recording

You can watch other channels while one channel is being recorded.

If a SAT channel is being recorded, SAT channels transmitted on the same transponder as the channel being recorded can be watched at the same time.

Tip: During a recording, press the **LIST** button to see a list of all the channels that you can watch while recording.

Settings

The *Settings* menu is for configuring the basic functions of the receiver.

With the stored settings you can receive ASTRA channels right away when the receiver is connected to a working, digital-compatible ASTRA satellite system. Only the difference in local time may have to be corrected so that the time displayed and the broadcast times are shown correctly.

NOTE:

The various control options are displayed and explained at the bottom of the screen.

The settings can be changed using the **VOL** ◀ ▶ buttons. When leaving the menu (EXIT button) you will be asked whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Make your selection with the **VOL** ◀ ▶ buttons and confirm it with the **OK** button.

Press to switch Ⓞ on the digital receiver.

Press the **MENU** button.

The main menu will be displayed:

The first line in the menu, *Settings*, is highlighted.



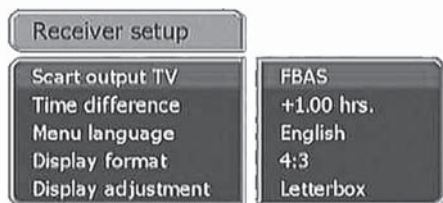
Press the **OK** button.

The following menu will appear:

Use the **CH** ▲▼ buttons to make a selection and confirm this with **OK**.



Settings – System setup



1) Scart output

Using the **VOL ◀ ▶** buttons, you can select the output signal for the scart socket (*FBAS*, *RGB*, *YUV* or *Y/C*) to suit your television set.

2) Local time

After switching the receiver on for the first time you should set the difference between your local time and the received GMT time. Make the setting using the **VOL ◀ ▶** buttons. For central Europe winter time is: +1.00 hour and summer time: +2.00 hours. You will have to update this setting with each change between winter and summer time.

3) Selecting the menu language

Use the **VOL ◀ ▶** buttons to select the desired menu language.

4) Signal format

With the **VOL ◀ ▶** buttons you can select the signal format (*4:3* or *16:9*) to suit your television set.

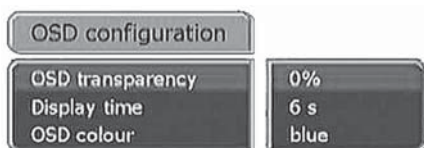
5) Alignment

The **VOL ◀ ▶** buttons are used to select the scart output signal mode, depending on the signal format: pan & scan, letterbox, pillarbox or centre.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Settings – OSD

Use the **CH ▲ ▼** buttons to move the cursor in the *Installation* menu to the line *OSD* and press the **OK** button. The following menu will appear:



1) OSD transparency:

You can set the transparency of the OSD using the **VOL ◀ ▶** buttons.

2) Display duration:

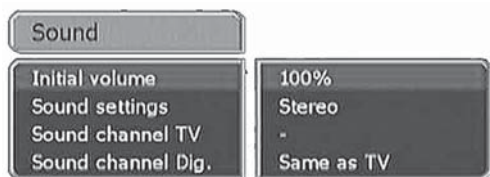
With the **VOL ◀ ▶** buttons you can set the length of time that channel information is displayed when changing channels (1-10 seconds).

3) OSD colour:

You can select the colour of the OSD display using the **VOL ◀ ▶** buttons.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Settings – Sound



1) Start volume

You can use the **VOL ◀ ▶** buttons to set the start volume of the receiver.

2) Sound setting

You can use the **VOL ◀ ▶** buttons to choose between *Stereo*, *Mono left* or *Mono right*.

3) Audio channel TV

You can use the **VOL ◀ ▶** buttons to select the SCART output audio channel for the current channel, if the current programme being transmitted offers more than one option.

4) Audio channel digital

You can use the **VOL ◀ ▶** buttons to select the audio channel for the receiver's digital output for the current channel.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Settings – Subtitles



1) Subtitles

You can use the **VOL ◀ ▶** buttons to switch subtitles on or off.

2) Subtitle language

You can use the **VOL ◀ ▶** buttons to select the language of the subtitles. If no subtitles are being transmitted, the symbol „-“ will be displayed.

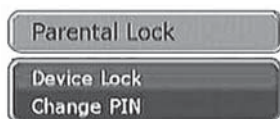
Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Settings – Child lock

Your receiver is equipped with a child lock. This secures the receiver against unauthorised use. When the child lock is activated, the receiver can only be switched on after entering a 4-digit PIN code.

In the Main *menu*, use the **CH ▲▼** buttons to move the cursor to the line *Child lock* and press the **OK** button.

The following menu will appear:



Child lock – device lock

To active or deactivate the device lock, move the cursor to the line *Device lock* and press **OK**.

The following menu will appear:



Use the **VOL ◀ ▶** buttons to switch the device lock on or off. When the lock is activated, the PIN code must be entered when switching on the receiver.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (**Yes**) or keep the previous settings (**No**). Confirm your choice with the **OK** button.

Child lock – changing the PIN

To change the PIN, move the cursor to the line *Change PIN* and press **OK**.

The following menu will appear:



The PIN code is set at the factory to **0000**.

Using the code 9976, the receiver can always be switched on, regardless of what PIN code has been set.

Use **CH ▲▼** to move the cursor to the line *New PIN* and press the **OK** button. Use the **0-9** buttons to enter a 4-digit PIN code, then press **OK**. Use **CH ▲▼** to move the cursor to the line *Confirm PIN* and press the **OK** button. Now confirm your entry by entering your chosen PIN code one more time, then press **OK**.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (**Yes**) or keep the previous settings (**No**). Confirm your choice with the **OK** button.

WARNING

You must not forget the PIN code. Should this happen, please contact your specialist dealer!

Installation

This digital receiver was pre-configured in the factory so that it is ready to work right away with most satellite systems and LNB configurations without having to make any changes to settings. Any changes made in this menu have a direct effect on the reception characteristics of the receiver and should therefore only be carried out by qualified personnel!

In the main menu use **CH ▲▼** to select the line *Installation* and confirm with **OK**.

The following menu will appear:

Use the **CH ▲▼** buttons to make a selection and confirm this with **OK**.



Installation – LNB configuration

Select the required line with **CH ▲▼** and make the desired setting using **VOL ◀ ▶** or **1-0**.

1) LNB

Name of the satellite.

2) LNB supply

You can use the **VOL ◀ ▶** buttons to switch the LNB supply voltage on or off.

3) LOW band

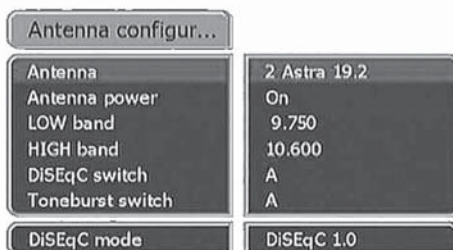
LOW band oscillator frequency. Can be set using the **VOL ◀ ▶** buttons or, after pressing the **OK** button, directly using the **1-0** buttons.

4) HIGH band

HIGH band oscillator frequency. Can be set using the **VOL ◀ ▶** buttons or, after pressing the **OK** button, directly using the **1-0** buttons.

5) DiSEqC switch

If the receiver is connected to a satellite system for the simultaneous reception of several satellites (multi-feed system), then assign the respective LNB (menu line 1) to its input on the DiSEqC switch using the **VOL ◀ ▶** buttons.



6) Tone burst switch

If the receiver is connected to a satellite system for the simultaneous reception of several satellites (multi-feed system), then assign the respective LNB (menu line 1) to its input on the tone burst switch using the **VOL ◀ ▶** buttons.

7) DiSEqC mode

You can use the **VOL ◀ ▶** buttons to select the DiSEqC mode. Select *DiSEqC 1.0* for fixed systems and *DiSEqC 1.2* for motorised systems. If you select DiSEqC 1.2, the line *Motor Settings* will appear in the *Installation* menu.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Installation – Channel search

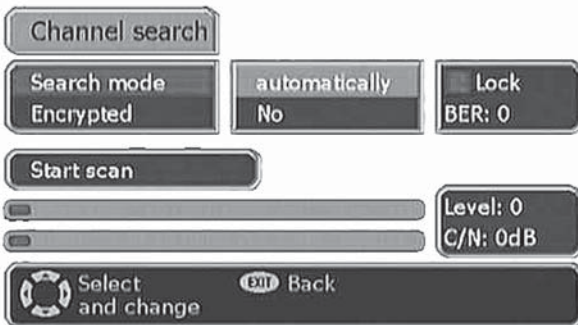
This digital receiver has been pre-programmed at the factory with most of the digital TV channels and RADIO stations for the following satellites

- Astra 19.2° east,
- Hot Bird 13° east,
- Türksat 1C 42° east,
- Sirius 2/3 5° east,
- Amos 1 4° west,
- Hellas Sat 2 39° east

You can read which satellite channels are already pre-programmed when you call up the channel list in **TV** or **RADIO** mode using the **LIST** button.

“New” satellite channels are constantly being transmitted and satellite parameters are being changed. We therefore recommend that you carry out a channel search from time to time.

Use the **CH ▲▼** buttons to move the cursor in the *Installation* menu to the line *Channel search* and press the **OK** button. The following menu will appear:



Channel search

1. Use the **CH ▲▼** buttons to move the cursor to the line *Satellite* and use the **VOL ◀ ▶** buttons to set the desired satellite.
2. Select the line *Search mode* with **CH ▲▼** and use the **VOL ◀ ▶** buttons to select the desired search mode.
Transponder: In this mode, only one transponder is searched. For this you have to enter the frequency, polarisation and symbol rate of the transponder.
Satellites In this mode, the transponders for the channels stored in the channel list will be searched for new channels.
3. In the line *Encrypted* use the **VOL ◀ ▶** buttons to select whether the channel search should also search for encrypted channels.
No = encrypted channels will be ignored.
Yes = encrypted channels will also be included in the list.

The following settings are only carried out in the search mode *Transponder*.

4. Use the **CH ▲▼** buttons to move the cursor to the line *Frequency*, press the **OK** button and use the 1-0 buttons to enter the channel's 5-digit frequency then confirm the entry with **OK**.
5. Use the **CH ▲▼** buttons to move the cursor to the line *Polarisation* and use the **VOL ◀ ▶** buttons to set the polarisation (vertical or horizontal).
6. Use the **CH ▲▼** buttons to move the cursor to the line *Symbol rate*, press the **OK** button and use the 1-0 buttons to enter the symbol rate then confirm the entry with **OK**.

Use the **CH ▲▼** buttons to move the cursor to the line *Start channel search*, then start the channel search by pressing the **OK** button.

Two windows will now be displayed listing the newly found TV channels and radio stations.

In the *Status:* window you can see how far the search has progressed.

- Display: *Scanning* => search is active
- Display: *Complete* => search has been completed.

When leaving the menu (**EXIT** button) you will be asked whether you want to store the new channels (*Yes*) or delete them again (*No*). Make your selection with the **VOL ◀ ▶** buttons and confirm it with the **OK** button.

The newly found channels will be added to the end of the channel list.



Installation – Factory default settings

This menu item is used to reset the receiver to the factory default settings. Afterwards it will revert to the three start menus as in the first-time installation.

Installation – Software download

This feature allows you to update the receiver's system software as well as menu texts and the channel list via the Astra 19.2° east satellite. However, this requires that your satellite system is set up to receive this satellite.

WARNING:

When the software is updated, your receiver's current system software will be deleted and replaced by a new version of the software.

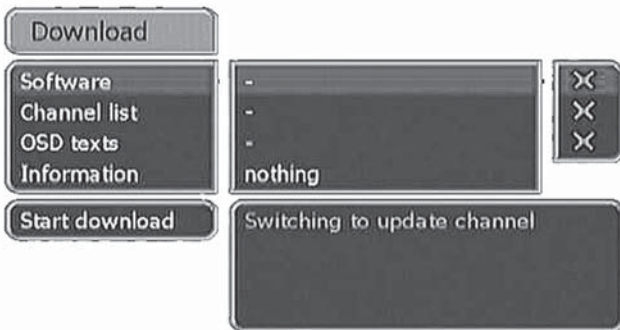
When the channel list is updated, the currently programmed channels will be deleted and a new channel list will be installed. When doing this, the order of the channels may be changed.

When the OSD text is updated, the currently stored text will be deleted and updated.

The update process consists of the following steps:

1. Opening the update menu:

In the *Installation* menu, use the **CH ▲▼** buttons to select the line *Software download* and confirm with **OK**.



The update process is started by opening the *Download* menu, which automatically starts the search for the receiver's download channel. Wait until this search has been completed, This can take several minutes. After this, the receiver will automatically check whether there is any software available that is newer than that which is currently installed. The result will be displayed in the *Download* menu alongside the corresponding items.

If no new data is available, „-“ will be displayed. Press **EXIT** to leave the menu.

2. Selecting the available data:

Depending on what downloadable files are available (*New software available*) you can use **CH ▼▲** to choose between the following:

- | | |
|--------------------------|---|
| a.) <i>Software:</i> | Betriebssoftware des Digitalreceivers |
| b.) <i>Channel list:</i> | The digital receiver's channel list |
| c.) <i>OSD text:</i> | All the text that is displayed on the screen by the digital receiver |
| d.) <i>Information:</i> | Information on the files ready for download, e.g. version number, new features, noteworthy information etc. |

With a.) to c.) use OK to select whether you want to update the corresponding data (✓) or not (✘). When making the selection it is possible that a further menu item will be automatically activated, because the update requires the additional data.

In the line *Information*, use **VOL ◀** or **VOL ▶** to select whether you would like to receive more information about the available data:

- | | |
|----------------------|--------------------------------|
| <i>All:</i> | on all available files |
| <i>None:</i> | on none of the available files |
| <i>Software:</i> | on the software. |
| <i>OSD text:</i> | on the menu texts |
| <i>Channel list:</i> | on the channel list. |

NOTE:

If, before updating, you want to read the relevant information, leave points a.) to c.) unselected, (✘) and under d.) select the desired information, then start the information download. Once the information has been downloaded you can return to a.) to c.) and use the **yellow** button to display the information. Press the **EXIT** button to close the window.

3. Starting the update process:

The actual update/download process is started as follows:

- Select the data you require under a.), b.) or c.) using **OK**. (display ✓)
- Use **VOL ◀** or **VOL ▶** to set the line *Information* to *none*.
- Use the **CH ▼▲** buttons to select the line *Start download* and confirm with **OK**.

Once the first data has been received, the progress of the download will be displayed in the status window. As the data is received in blocks, several minutes may pass between individual data blocks. As soon as all of the data blocks selected in 2. have been 100% received, the receiver will store the data immediately. You will see the display flashing while the data is being stored. The update process is then complete. The receiver will then automatically switch to standby mode.

WARNING:

As long as the receiver hasn't started to store the data, the download can be cancelled at any time with **EXIT**. However, once the first data is being stored, cancelling is no longer possible. Interrupting the download (e.g. by disconnecting the mains plug) may damage the receiver's system software, text data or channel list!

NOTE:

If the download contains a new channel list, the receiver must be reset to factory defaults in order to activate the list.

Installation – Motor settings

Your digital receiver is suitable for use with a rotor system (DiSEqC level 1.2). With the aid of DiSEqC control you can control a suitable motor via the existing coaxial cable.

In the menu *LNB configuration* first select DiSEqC mode 1.2. Then leave the menu with **EXIT** and use the **CH ▲▼** buttons to select *Motor settings* and press **OK**.

1) Satellite

Use the **VOL ◀ ▶** buttons to select a satellite name in order to identify the corresponding antenna position.

2) Antenna position

Use the **VOL ◀ ▶** buttons to select the antenna position to be transmitted to the DiSEqC motor.

3) Frequency

The frequency of a strong transponder to locate the satellite. Can be set using the **VOL ◀ ▶** buttons or, after pressing the **OK** button, directly using the **1-0** buttons.

4) Polarisation

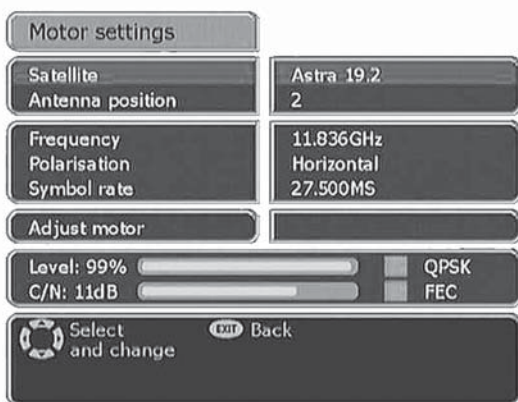
Use the **VOL ◀ ▶** buttons to select the polarisation level of the transponder (*Horizontal* or *Vertical*).

5) Symbol rate

Enter the symbol rate of the transponder with the **VOL ◀ ▶** buttons or, after pressing the **OK** button, directly using the **1-0** buttons.

6) Motor setting

After making your selections in points 1) to 5), you can now send the commands for setting the motor positions.



Motor commands:

- button: turns the antenna to the east
 - + button: turns the antenna to the west
 - OK button: stops the motor
 - 1 button: sets the eastern limit for the antenna
 - 2 button: sets the western limit for the antenna
 - 3 button: deletes the antenna limits
 - 4 button: turns to the set antenna position
 - 5 button: fine adjustment of the motor in an eastward direction
 - 6 button: fine adjustment of the motor in a westward direction
 - 7 button: recalculates the antenna position
 - 8 button: stores the current antenna position under the name of the chosen satellite
- Red button: starts the channel search

Basic settings for the rotor system:

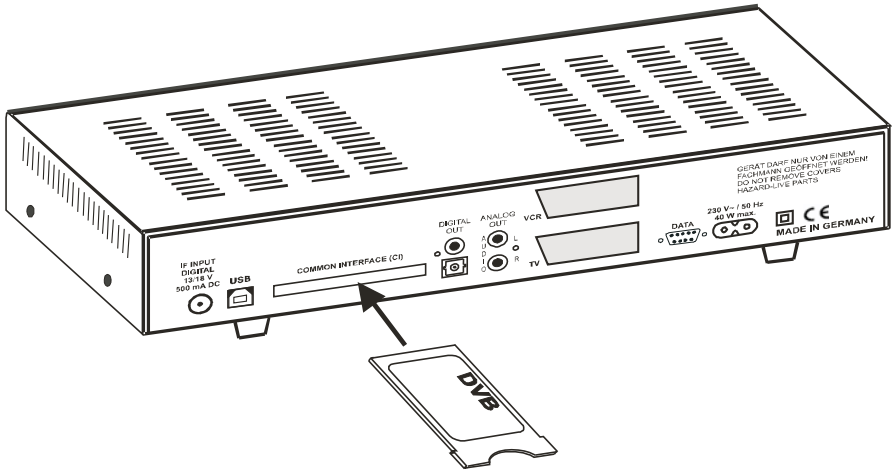
First install the motor and the antenna according to the manufacturer's instructions. In the menu *Settings – Installation – LNB configuration*, the menu item *DiSEqC mode* must be set to *DiSEqC 1.2*. Once this is done, the eastern and western rotation limits must be set in the *Motor settings* menu. It is important that the dish and the LNB cannot collide with obstructions such as a wall or roof. If there are no obstructions within the entire turning radius of the antenna, set the limits such that the antenna can be turned slightly past the positions where the outermost satellites can be received. Once the selections have been made in the menu lines 1) to 5), the motor can be rotated to the east or west until a picture appears on the connected TV set or the signal level display indicates that a signal is being received. Optimum antenna orientation is achieved by fine adjustment. Once the antenna is correctly set up, the antenna position is stored (8 button) and the procedure repeated for further satellites.

Installation – Common Interface (CI)

On the back of the digital receiver there is a Common Interface slot. In combination with a card module (CAM Conditional Access Module) and a suitable Smart Card, this interface allows you to decode various encrypted channels.

The Smart Card is inserted into the module. The Conditional Access Modul (CAM) can be inserted or removed while the receiver is running. You can also take out or insert the Smart card at any time without having to switch off the receiver. However, please also follow the module manufacturer's instructions.

Slide the module in carefully, pressing lightly, until the contacts click into place.



After the module and the Smart Card have been inserted, the corresponding channel can be selected. It may take a few seconds until the programme is activated.

NOTE:

Conditional Access Modules have their own software and menus for onscreen display.

To call up a module's menu, open the *Installation* menu. The name of the module will be shown, according to its type, e.g. "AlphaCrypt" or "CryptoWorks". Select this line with **VOL ▲** or **VOL ▼** and call it up with **OK**. This takes you into the menu that comes from the module. If you remove a module, the corresponding menu item will be removed again.



Channel list

You can arrange the order of the pre-programmed channels according to your own wishes and delete channels you don't need. This applies to both TV channels and radio stations.

In the main menu, use the **CH ▲▼** buttons to move the cursor to the line *Channel list* and press the **OK** button.

The following menu will appear:



Channel list – sort manually

Allows you to delete or move channels within the channel list. In the menu *Channel list* use the **CH ▲▼** buttons to move the cursor to the line *Sort manually* and press the **OK** button.

a) Deleting channels

Select the channel to be deleted with **CH ▲▼** and highlight it with **OK**. You can now select further channels with **CH ▲▼** and highlight them with **OK**. To delete the highlighted channels, press the **red** button.

b) Sorting channels

Select the channel to be moved with **CH ▲▼** and highlight it with **OK**. You can now select further channels with **CH ▲▼** and highlight them with **OK**. With **CH ▲▼** select the channel slot before which the highlighted channels are to be inserted. To move the channels, press the **yellow** button.

Channel list – editing favourites

You can store your favourite channels in a favourites list. In the menu *Channel list* use the **CH ▲▼** buttons to move the cursor to the line *Edit favourites list* and press the **OK** button.

Two tables will now be displayed:

- The *Overall list*, containing all stored channels (max. 4000).
- The *Favourites list*, into which the selected channels can be copied (max. 4000).

Select your favourite channels from the overall list and copy them to the favourites list: Select the channel to be moved with **CH ▲▼** and highlight it with **OK**. You can now select further channels with **CH ▲▼** and highlight them with **OK**. Pressing the **SWAP** button switches to the favourites list. With **CH ▲▼** select the channel slot before which the highlighted channels are to be inserted. Press **OK** to add the channels to the favourites list. By pressing **SWAP** you can switch back to the overall list.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

In radio mode, you can create your own favourites list for radio stations.

Channel list – Deleting satellites

Allows you to delete all TV channels and radio stations of the selected satellites from the channel list. In the menu *Channel list* use the **CH ▲▼** buttons to move the cursor to the line *Delete satellites* and press the **OK** button.

Deleting channels of individual satellites

Select the satellites to be deleted with **CH ▲▼** and highlight them with **OK**. You can now select further satellites with **CH ▲▼** and highlight them with **OK**. To delete the highlighted satellites press the **red** button.

Press **EXIT** to leave the menu. Use the **VOL ◀ ▶** buttons to choose whether you want to store the changes made (*Yes*) or keep the previous settings (*No*). Confirm your choice with the **OK** button.

Timer

You can make your digital receiver switch off at a previously selected time or program a recording for a connected video recorder.

A total of 10 record timers are available

In the main menu, use the **CH ▲▼** buttons to move the cursor to the line *Timer* and press the **OK** button.

The following menu will appear:



Timer – Sleep timer

In the Timer menu, use the **CH ▲▼** buttons to move the cursor to the line *Sleep timer* and press the **OK** button.

The following menu will appear:



Entering the switch-off time:

1. Confirm *Switch off at* with **OK**.
2. With the **0-9** buttons, enter the desired switch-off time and confirm with **OK**.
3. Select the line *Activate* with **CH ▲▼**.
4. Use **VOL ◀ ▶** to activate (*On*) or deactivate (*Off*) the sleep timer.
5. To complete the setting, press **EXIT** and then **OK**.

Press **EXIT** to leave the menu. The digital receiver will switch off at the preset time (standby).

Timer – Record timer

In the Timer menu, use the **CH ▲▼** buttons to move the cursor to the line *Record timer* and press the **OK** button. The following menu will appear:



Programming the record timer:

1. Select the line Timer slot (1...10) with **CH ▲▼** wählen.
2. Select the timer slot with **VOL ◀ ▶**.
3. Select the line *Start time*, *Stop time* or *Recording date* with **CH ▲▼** and confirm with **OK**.
4. Use **0-9** to enter the desired time or date.



5. Confirm the entries by pressing **OK**.
6. Select the line *Channel* with **CH ▲▼** and confirm with **OK**.
7. Select the channel from the channel list with **CH ▲▼** and **VOL ◀ ▶** and confirm with **OK**.
8. Select the line *Repeat* with **CH ▲▼** and use **VOL ◀ ▶** to select the desired function.
9. Select the line *Record* with **CH ▲▼** and use **VOL ◀ ▶** to select the desired function.
10. Select the line *Activate* with **CH ▲▼**.

11. With **VOL ◀ ▶**, activate (*On*) or deactivate (*Off*) the record timer.
12. To complete the setting, press **EXIT** and then **OK**.

Press the **EXIT** button to leave the menus. The digital receiver will switch on at the time programmed. „**REC.**“ will be shown in the display. Once a timer is activated, you can no longer use the receiver, but you can call up the menu *Record timer* and deactivate the timer.

Programming the timer from the EPG:

Pressing the **i/EPG** button calls up the programme table for the active channel. Here you can see all programmes together with their broadcast times. The current programme is highlighted.

Use **CH ▲▼** and **VOL ◀▶** to select the programme you wish to record.

By pressing the yellow button, all data will be transferred to the record timer.

Pressing **OK** button will activate the timer.

Press **EXIT** to return.

NOTE:

The local time on the receiver must be set correctly and your video recorder must be programmed accordingly.

Record timer	13:18
Timer index (1...10)	1 (inactive)
Start at	00:00 o'clock
Stop time	00:00 o'clock
Date of recording	03.08.07
Station	1 Das Erste
Repetitions	nothing
Activate	

Information

In the main menu, use the **CH ▲▼** buttons to move the cursor to the line *Information* and press the **OK** button.

The reception characteristics of the active channel will now be shown.

You can also activate the menu in normal TV or radio mode using the **yellow** button on the remote control.



In the upper part of the menu, the active channel and the channel parameters are shown.

In the lower part of the menu, the signal characteristics are shown.

Level: The further the bar extends to the right, the better the signal being received.

Quality (C/N): The further the bar extends to the right, and the *higher* the dB level, the better the signal quality.

NOTE:

The signal strength depends not only on the settings of your reception system, but also on the currently active channel. Bear this in mind when checking the alignment of your antenna using the signal strength display.

By pressing **VOL ◀ ▶** or the **yellow** button, two further windows with channel and with software and hardware information will be displayed, one after the other. You can change the channel with **CH ▲▼** and **SWAP**.

Press **EXIT** to leave the menu.

Teletext

Switch on the channel for which you want to receive teletext. Then press the **blue** button to switch on teletext. The start page displayed is page 100.

Use the **0-9** buttons to enter the three-digit number of the page you want to see. Your entry will be shown in the top left corner of the screen. Once the page number is entered, the receiver will search for the desired page. As teletext pages are transmitted one after the other, it may take several seconds before the page is found.

You can use the **CH ▲▼** buttons to browse back and forward.

By pressing the **blue** button one more time you will switch to mix mode. Here, the background of the teletext page is transparent and you can see the currently running programme and the teletext simultaneously. You can switch back to normal mode with the **blue** button.

Press **EXIT** to leave teletext.

Hard disk management

In the *Main menu* select the line *Hard disk management* with **CH ▲▼** and confirm with **OK**. The following menu will appear:



Hard disk management – hard disk information

In the menu *Hard disk management*, move the cursor using the **CH ▲▼** buttons to the line *Hard disk information* and press the **OK** button.

In the window that appears you will see details about the built-in hard disk:

- hard disk type
- hard disk serial number
- hard disk firmware
- total capacity
- access times

Use **EXIT** to leave.

Hard disk management – hard disk maintenance

Allows you to format the hard disk. Formatting the hard disk will completely delete everything on it. Afterwards the full recording capacity will again be available, as when the device was first supplied.

In the menu *Hard disk management*, move the cursor using the **CH ▲▼** buttons to the line *Hard disk maintenance* and press the **OK** button.



Use **VOL ◀ ▶** to choose whether you want to format the hard disk (*Yes*) or not (*No*). After formatting, the number of recordings will be reset to zero. *Free memory* shows the maximum recording capacity available on the hard disk.

Use **EXIT** to close the window.

WARNING:

If you format the hard disk, all recordings on it will be irretrievably lost.

Hard disk management – switching off the hard disk

The receiver can switch off the built-in hard disk in normal television mode if no recording or playback is taking place. This helps to lower energy costs, reduces waste heat, and increases the lifespan of the hard disk. The receiver also produces less noise.

If you want to record or play back a programme, the hard disk will automatically switch on again. Please note that a few seconds will elapse before the hard disk is ready for operation, and that there will be an initial delay in the corresponding functions – recording, playback and the hard disk menu display.

You can set the time after which you want the hard disk to switch off if it is not being used. In the menu *Hard disk management*, move the cursor using the **CH ▲▼** buttons to the line *Switch off hard disk*. Use the **VOL ◀ ▶** buttons to select the time at which you want the hard disk to switch off if it is not being used.

NOTE:

The hard disk will not switch off if you select the setting “–”.

Hard disk management – testing the file system

This tests the integrity of the file system. If an error occurs, the question “Delete recording?” will appear. If you then press “Yes”, the recording will be deleted, if “No”, the unit will attempt to repair the recording, and afterwards the file system check will continue automatically.

List of recordings

In normal mode, press the green button to open up the list of recordings.

Deleting recordings

You can delete recordings you no longer need from the hard disk.

Use **CH ▲▼** to select the programme you wish to delete.

Then press the yellow button. A security prompt will appear, asking whether you really want to delete the recording. Use the **VOL ◀ ▶** buttons to select whether you really want to delete the recording (Yes) or not (No). Confirm your choice with the **OK** button.



Sorting recordings

In normal mode, press the **green** button to open up the list of recordings. Press the **LIST** button. The menu "Select list" will appear.

Use the **CH ▲ / CH ▼** buttons to select the sorting criteria and then press **OK**. The list of recordings will be sorted as follows:

"Alphabetical":	The recordings will be put in alphabetical order
"Recording date":	Sorted according to the time of recording (oldest recording first)
"Archiving":	Sorted according to where the recording is filed on the hard disk
"Recording length":	Sorted according to the size of the recording

Renaming recordings

While a recording is being made, its name will be created automatically from the broadcast information. You can however rename the recordings manually.

In normal mode, press the **green** play button. The list of recordings will appear. Use **CH ▲▼** to select the programme you would like to rename. Then press the **blue** button. The following menu will appear:

In the lower window you will see in the first line the name of the selected programme. Below it, the available characters are shown. Use the **green** button to switch between upper and lower-case characters.

In the name, use the **red** and **blue** buttons to select the characters you wish to change. The current position that can be changed is highlighted in colour.

Now use the **CH ▲▼** and **VOL ◀ ▶** buttons to select the character you would like to insert. Then press **OK**, to insert the character in the name.

To accept the new name, press **EXIT**. The newly modified name will now be displayed in the list of recordings.



Operating the hard disk

Your digital receiver is equipped with an integrated hard disk drive, so that you no longer need an external storage medium (e.g. a video recorder) to make recordings. The recording capacity depends on the size of the hard disk and the data volume of the broadcast material.


Recording

Various modes of recording are available for you to record programmes on the hard disk.

1. Immediate recording

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

Press the **record** button to record the current programme. While the recording is running, the programme will continue to be shown on the screen.

To stop an immediate recording, press the **grey** stop button .

2. Timer recording

You can record programmes on the integrated hard disk in your absence using the timer recording function. To do this, program a record timer as described on page 28. In the menu line *Record on*, select the *Hard disk*.

Timeshift function

The Timeshift function enables you to record and playback at the same time. This gives you the following options:

1. Time-delayed television. You can watch the beginning of the recording and skip already recorded passages (e.g. commercial breaks).

Press the **red** record button  to start a timeshift recording.


To watch the partially recorded programme, press the **green** playback button. The programme is then played from the moment of recording, while the current programme continues to be recorded in the background.

If you want to stop the playback and return to normal TV mode, press the **TV button**.


To stop a timeshift recording press the **grey** stop button .

2. Recordings saved on the hard disk can be played back during timeshift recording. During the timeshift recording, press the **green** playback button **twice** to open the list of recordings. Use **CH ▲▼** to select the recording you wish to see. Press **OK** to start playback. The playback information will be displayed on the screen briefly.

If you want to stop playback and return to normal TV operation, press the **TV button**.

To stop a timeshift recording press the **grey** stop button .

Playback

In normal mode, press the **green** button to open up the list of recordings. Use **CH ▲▼** die Aufnahme to select the recording you wish to see. Press **OK** to start playback. The playback information will be displayed on the screen briefly. *Note:* While this display is on the screen, you can switch the slow motion function on and off using the **OK** button. Playback is stopped using the **grey** stop button .

Choosing the audio channel for recordings

When playing back recordings, you can choose between the different audio channels. During playback, press the **F2** button twice. A menu with the available audio channels will now be displayed. Use the **CH ▲▼** buttons to select the audio channel you want to use and press the **OK** button. Pressing the **EXIT** button to leave the menu.

Operating the hard disk – fast forward and rewind

During playback, press the **blue** Forward button or the **red** Rewind button. “▶▶” or “◀◀” will be displayed. The recording will be shown speeded up in the chosen direction. Press the **blue** or **red** button again to increase the speed. The symbol ▶▶▶ or ◀◀◀ will appear. Press the **blue** or **red** button once more, and the speed will be increased to the maximum. The symbol ▶▶▶▶ or ◀◀◀◀ will appear. Once you have found the spot you were searching for, press the **green** button to return to normal playback mode.

During fast forward or rewind, you can use the **VOL ◀ ▶** buttons to change the current position within the file. This enables you to easily skip longer sections of film.

Overview of symbols displayed:

Display	Meaning
▶	playback
▶▶	fast forward
▶▶▶	very fast forward
▶▶▶▶	maximum speed forward
●	recording
● ▶	timeshift operation
◀◀	fast rewind
◀◀◀	very fast rewind
◀◀◀◀	maximum speed rewind

Managing recordings

In normal mode, press the **green** play button. The list of recordings appears.

The menus and controls are similar to the description under Hard disk management – list of recordings on page 31.

Operating the hard disk – Setting and managing markers

During the timeshift function or playback, you can mark places on the recording. A so-called marker is shown as a coloured triangle in the progress bar. Press the **F1** button at the current playback position to set a marker.

You can use the **F2** button to display a list of all markers. A recording always has the markers *Start* and *End*.


Using **CH ▲▼** you can now select a single marker. Press the **OK** button to continue playback from the selected marker.

When the list of markers is open, you can use the **F1** button to assign a particular function to a marker, so that when playback reaches this marker the function is automatically performed.

You can assign the following functions to markers:

- Press the **F1** button once – the marker is interpreted as a loop. When the playback reaches a loop marker, it jumps back to the previous marker. A loop marker is labelled **L** in the list of markers. A yellow vertical line is shown in the progress bar.
- Press the **F1** button twice – the marker becomes a jump marker. When the playback reaches a jump marker, it jumps to the next marker. A jump marker is labelled **J** in the list of markers. A white vertical line is shown in the progress bar. Use jump markers to, for example, skip commercial breaks.
- Press the **F1** button three times – the marker has no specific function. However, the marker is used during playback as a target for a loop or jump.

Press the **red** rewind button to delete the selected marker from the list. The *Start* and *End* markers cannot be deleted.

In playback mode, you can use the **SWAP** button to jump to the next marker. The red record button  takes you to the previous marker.

Press the **F2** button or **EXIT** to close the list.



EPG – Electronic Programme Guide

DVB-compatible channels offer information on their programmes such as title, running time and a description of the programmes.

Pressing the **iEPG** button calls up the programme table. Here you can see all programmes together with their broadcast times. The current programme is highlighted.

Use the **CH ▲▼** and **VOL ◀ ▶** buttons to select the programme about which you want information. By pressing the **OK** button you will receive detailed information about this programme. Press **EXIT** or the **iEPG** button to leave the EPG.

Audio language

If a channel is being transmitted in more than one language, this will be displayed on the screen when changing channels.

With the red and green buttons on the remote control, you can select the desired language and confirm this with **OK**.

With **OK** you can call up the display at any time and change the language.



DOLBY DIGITAL – AC 3 mode

If a programme is being transmitted in DOLBY DIGITAL format, this will be displayed when you change channels (AC-3).

With the red and green buttons on the remote control you can select AC-3 mode and activate it with **OK**. With **OK** you can call up the display at any time and change the sound format.

If you have a DOLBY DIGITAL 5.1 channel amplifier, you can listen to suitable films in this audio format, providing it is being transmitted. To do this, you have to connect the DOLBY DIGITAL output on your receiver to the corresponding connection on your hi-fi amplifier with a suitable cable.



Using the USB interface

The USB 2.0 interface allows you to connect the receiver to a PC. For this you need a PC with an operating system that supports USB 2.0 (e.g. Windows XP) and a USB lead with A-B connectors. To access the recordings on the hard disk, you will also need the manufacturer's own software. You will find this on the CD-ROM supplied.

Using the serial interface (DATA)

The serial interface allows you to connect the receiver to a PC. For this you need a PC and a serial cable with 1:1 pin mapping, i.e. all pins are connected directly. At the PC end, the cable has a 9 or 25-pin SUB-D connector, depending on what kind of serial connection your PC has. At the receiver end you will need a 9-pin SUB-D plug.

Using this connection, you can now carry out, for example, software updates or channel list uploads and downloads. For information on how to do this, see the description supplied with the necessary program available from the homepage of the manufacturer or your supplier.

Troubleshooting

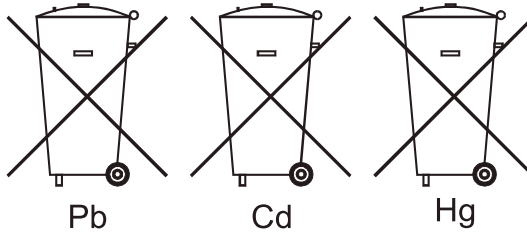
All electrical appliances are subject to problems but this doesn't always mean that the equipment itself is faulty. Usually the cause of the problem is due to poor cables or connections. So before sending your unit in for servicing, please check the following points:

problem	possible causes	tips and solutions
Unit can't be switched on	<ul style="list-style-type: none"> • unit is not connected to the mains • remote control batteries are flat 	<ul style="list-style-type: none"> • check that the mains adaptor is plugged in properly, test the power outlet with another electrical appliance • replace the batteries
No picture or poor picture	<ul style="list-style-type: none"> • wrong channel selected on the television • connection cable faulty or not properly plugged in 	<ul style="list-style-type: none"> • check the connections and settings on the television set • replace cable or plug it in properly
No sound	<ul style="list-style-type: none"> • volume set too low • cable faulty or not properly connected 	<ul style="list-style-type: none"> • increase volume • check cables and connections
Remote control not working	<ul style="list-style-type: none"> • too far away from the unit • batteries flat or incorrectly inserted • remote control receiver covered • timer is active 	<ul style="list-style-type: none"> • move closer, point directly at the receiver • insert batteries correctly • remove obstacles between remote control and receiver • deactivate timer
Wrong time displayed	<ul style="list-style-type: none"> • incorrect local time setting 	<ul style="list-style-type: none"> • set local time correctly
Timer is activated at the wrong time	<ul style="list-style-type: none"> • incorrect local time setting 	<ul style="list-style-type: none"> • set local time correctly
Menu error message: "short circuit or antenna input overload"	<ul style="list-style-type: none"> • coaxial cable damaged • LNB damaged or faulty 	<ul style="list-style-type: none"> • check and/or replace coaxial cable and F-plug • check and/or replace LNB
Picture interference with channels of a frequency of around 12480 MHz	<ul style="list-style-type: none"> • interference may be caused by wireless phones (DECT) in the vicinity of the receiver 	<ul style="list-style-type: none"> • move wireless phones further away
Error message "faulty signal"	<ul style="list-style-type: none"> • channel has changed transponder • satellite antenna misaligned • wrong settings in LNB configuration menu • cable faulty or not properly connected 	<ul style="list-style-type: none"> • carry out a channel search • adjust satellite antenna • correct settings or reset to factory defaults • check cables and connections

Make a contribution to protecting the environment

Batteries and battery packs should not be thrown in the household refuse. As a consumer, you are legally obliged to return used batteries. You can hand in your old batteries at public collection points in your community or at any place where those batteries are sold.

You will find the following signs on batteries containing harmful substances:



Pb = battery contains lead

Cd = battery contains cadmium

Hg = battery contains mercury

Tips for protecting the environment

When the unit has reached the end of its useful life, you should not simply throw it in the household refuse. There will probably be a centre for recyclable materials in your community which will accept old appliances for re-utilisation.



Technische Daten

General	<ul style="list-style-type: none"> • 4000 channel memory • 30 satellites (activated individually) • teletext and teletext generation for display on TV
Fast OSD	<ul style="list-style-type: none"> • quick channel changing for channel-hopping • no delays when displaying menus • large text for better readability • Easily understandable online help for all menus • programmable OSD transparency and OSD display duration
EPG	<ul style="list-style-type: none"> • Electronic Programme Guide for max. 64 days
Channel list editor	<ul style="list-style-type: none"> • copy, move, delete etc • block-based operations
Channel search	<ul style="list-style-type: none"> • fully automatic channel search • identifies unencrypted channels • manual transponder search
Further features	<ul style="list-style-type: none"> • DiSEqC control (level 1.2) for motorized antennae • signal strength and signal quality display • separate settings for SCART and digital audio outputs • one-button return to previous channel • plug & play thanks to pre-programmed channel list for Astra 19,2° east, Hot Bird 13° east, Turksat 1C 42° east, Sirius 2/3 5° east, Amos 1 4° west and Hellas Sat 2 39° east • DVB subtitle display • software updates via satellite • Serial interface for updates and channel lists, updates available from the Website • USB 2.0 interface
Hard disk	<ul style="list-style-type: none"> • Optional: 40GB or 60GB or 80GB
Video	<ul style="list-style-type: none"> • 2 x SCART with Y/C support • 16:9 signalling
Audio	<ul style="list-style-type: none"> • 24bit audio DAC • Stereo cinch output • 32-step volume control • VCR loop-through to TV (FBAS, Y/C, YUV or RGB)
Reception	<ul style="list-style-type: none"> • 2– 45 MSym/s symbol rate range • DiSEqC 1.0 and DiSEqC 1.2 control
Controls	<ul style="list-style-type: none"> • Remote control, front controls
Supply voltage	<ul style="list-style-type: none"> • 230V AC, 50 Hz, approx. 20W (without LNB) • Standby mode approx. 2 – 3W
Batteries for remote control	<ul style="list-style-type: none"> • 2x1.5V (AAA size, LR03)
Ambient temperature	+5°C to +40°C
Dimensions	• W x H x D: 325 x 55 x 140 mm
Weight	• approx. 1,000 g

We reserve the right to errors and technical changes.

**Christian Schwaiger GmbH
Würzburger Straße 17
D-90579 Langenzenn/Germany
Hotline +49 (0)9101-702 299
www.schwaiger.de**