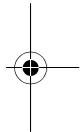
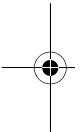


DTR 230
DTR 232



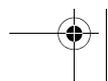
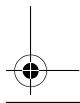
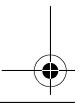
www.philips.com/support

For support call 0800 331 60 15

EN Digital Terrestrial Receiver 3



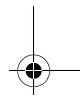
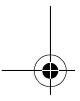
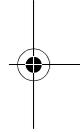
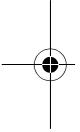
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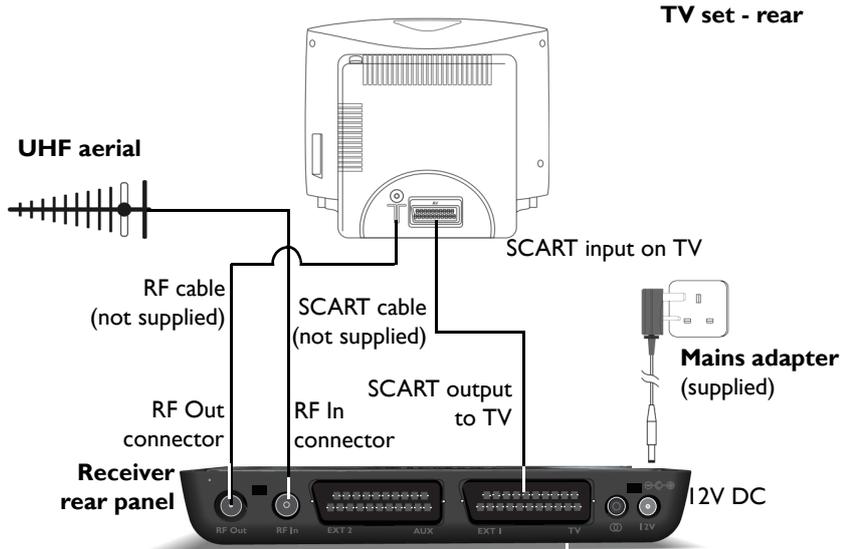
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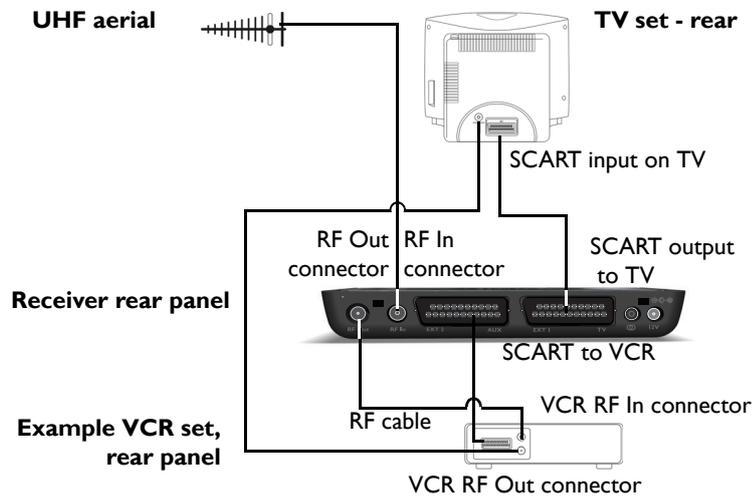


I Quick Start Guide

I.1 Connecting to a television



I.2 Connecting to a television and recorder





2 Introduction

Thank you for purchasing this product which has been designed and manufactured to give you many years of trouble-free service.

2.1 About this user manual

This user guide contains all the information you need to know about how to setup and watch available 'Freeview' channels using your digital terrestrial receiver.

2.2 Safety and precautions

Safety is important

To ensure your safety and the safety of others, please ensure you read the Safety Instructions before you operate this product.

Note

Keep this information in a safe place for future reference.

Safety warnings

Before you connect and start the receiver, please observe the following points:

- The device is designed for domestic use.
- Only the functions described in these Operating Instructions may be carried out with this device.
- If possible, keep the Operating Instructions ready at hand near the appliance.
- If you hand the device on to other persons, please also include these Operating Instructions.

Danger caused by electricity

In the interior of the device there are hazardous voltages. Never open the housing or insert objects through the ventilation openings.

- Only connect the device to a 230 V power outlet installed according to regulations, being accordingly fused.
- The power outlet has to be easily accessible so that you are able to disconnect the power plug immediately if necessary.
- Observe that the connector cables are not clamped or squeezed.
- Do not start the device if the device or the connector cables show visible damage, or if the device has fallen down.
- If an apparent damage occurs (e. g. smoke or similar) during operation, immediately disconnect the pluggable power supply from the power outlet. In doing so, always take hold of the plug, never of the cable.
- Power outlets and extension cables may not be over-loaded, otherwise there is fire hazard! When purchasing the product, enquire for the maximum permissible current consumption.



- In order to completely disconnect the device from the power supply, the pluggable power supply has to be disconnected from the power outlet.
- Have repairs or settings on your receiver carried out by qualified skilled personnel only. Unauthorised opening and repair attempts will result in loss of warranty. The manufacturer accepts no liability for accidents of the user if the device is opened. Incorrect wiring of the connections can result in failures or malfunctions on the device.
- Do not effect modifications on this device.
- Use provided cables and pluggable power supplies only.
- During thunderstorms, devices connected to the mains supply may be damaged. Therefore, in case of a thunder-storm always disconnect the pluggable power supply from the power outlet.
- If you are absent for a longer period of time or in case of approaching thunderstorm, disconnect the receiver from the power supply unit and from the antenna. This also applies to devices connected to the receiver. Do not touch any part of the digital terrestrial receiver, power adaptor or antenna cord during thunderstorms.

Danger of electric shock by humidity

- The device may not be exposed to dripping or splashing water. Prevent liquids from entering into the device. In case of need, immediately disconnect the power plug.
- The device may not be used in damp locations (e. g. bathroom) or rooms with heavy dust accumulation.
- Objects filled with water, e.g. vases, may not be placed on the device.

Danger of injuries by other causes

- Observe that nobody can trip over the connector cables.

Danger for children

- Never leave children unattended with this device. Children underestimate the danger associated with electric appliances.

Notes regarding the installation site

- Install device on horizontal surface only.
Do not expose this device to extreme temperatures. Therefore:
- Avoid direct solar radiation and radiator heat;
- Do not obstruct the air ventilation by covering the ventilation openings with objects, like for example magazines, table cloths, curtains, etc.;
- Leave a minimum clearance of approx. 10cm above and to the sides. The heat may not accumulate in the device! Otherwise the heat can damage the device, and there is fire hazard!
- The device may not be installed close to inflammable material (e. g. curtains, flammable liquids, etc.).

Batteries

- Batteries are to be kept away from children.
- After swallowing a button cell or battery, the person concerned has to consult a doctor immediately.
- Do not try to reactivate used batteries by heat, charging, or by other means.
- Batteries may not be thrown into the fire, disassembled, or short-circuited.
- Replace the batteries at least one a year to prevent them from leaking.
- Always replace both batteries and use batteries of the same type only (e. g. alkaline cells or zinc/ carbon).
- If you are absent for a longer time, remove the batteries from the RC unit.

Miscellaneous notes

- Do not place open fire sources, like for example burning candles, on the device.
- The antenna that is used has to be grounded.
- Only switch the device on after the connections with the antenna and the SCART cable have been established.
- The bottom side of the device features the device feet. Because the furniture or floor surfaces consist of various materials and are treated with various care products, it cannot be completely ruled out that some of these materials contain components affecting and moistening the feet of the device. If required, place a non-slip mat underneath the feet.
- Opening the device results in loss of warranty.



This symbol indicates that the adapter is a Class II appliance and does not require a ground connection.



This symbol indicates that the adapter is for indoor use only.



This symbol indicates that the adapter conforms to CE regulations.

Environment

This set-top box is designed to reduce its impact on the environment and complies with European Directive 2009/125/EC. This is part of Pace's ongoing commitment to lead the way in environmental responsibility.

It has a standby mode that needs very little power: Refer to Power settings chapter 4.20 to choose the most appropriate mode.

See the table below and please note that:

- "By using the standby mode you will save energy (and therefore money) and reduce carbon dioxide emissions that damage the environment.
- "You use the standby button on your remote control to switch between On and Standby modes.
- "There will be an additional delay (few seconds) when you switch on your set-top box from the standby mode.
- "If you will not be using your set-top box for several days, you can cut its energy consumption to zero by unplugging the AC/DC adaptor from the mains.

ModeFront panel shows: Typical power

Mode	Front panel shows:	Typical power consumption (W)	Typical annual energy use (kWh)
AC/DC adaptor Unplugged	Nothing lit up	0	13*
Standby	LED is switched on Green	<0.7	
On	Nothing lit up	<4.7	

* Based on set-top box being on for 4.5 hours daily and being in Standby for 19.5 hours.

2.3 Environmental Markings



Your product has been designed and manufactured with high-quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product or his packaging, it means the product is covered by European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.



The "Material recyclability symbol" affixed on package cardboard and user manual means these parts are recyclable. So do not dispose of them with your normal household waste.



The "Material recyclability symbol" affixed on plastic packaging parts means these parts are recyclable. So do not dispose of them with your normal household waste.



The symbol on the box indicates that the company commercializing this product contributes financially to the selective disposal of packaging.



3 Getting Started

Remove your Digital Terrestrial Receiver carefully from the box, and remove the packaging from each part.

In the box

You will find the following items:

- Digital Terrestrial Receiver
- Remote control (AAA batteries)
- Power supply 230 V AC/50 Hz to 12 V DC
- User Manual (this publication)

If any of these items are damaged or missing, please contact us at 0800 331 60 15.

Please make sure that you have the model number of your receiver, before contacting us. The label showing the type and serial number is underneath your receiver.

Note

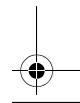
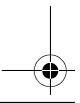
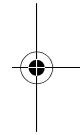
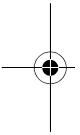
For optimum placement and use of product, ensure that the rear or the product is placed at least 10 cm from the edge of the table or shelf.

Batteries are removable from the remote using common household tools (like a screwdriver...)



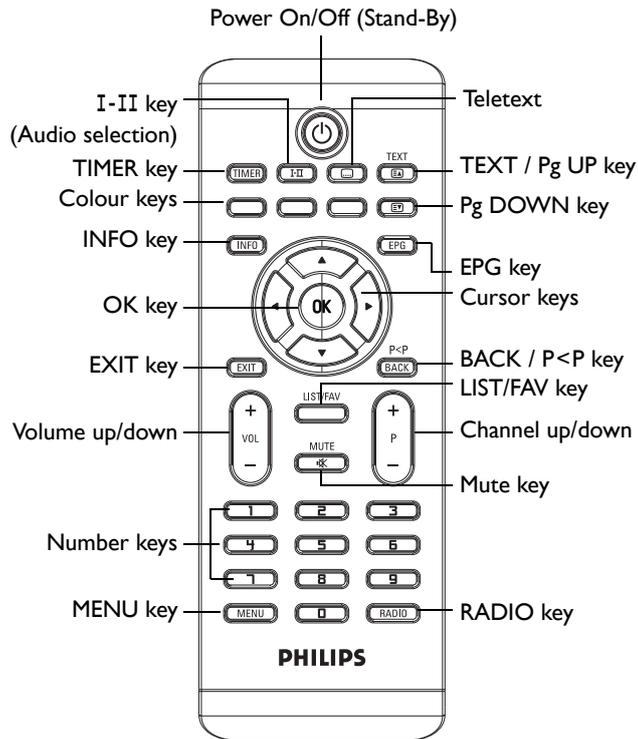
The batteries supplied do not contain hazardous substances such as Mercury, Cadmium or Lead.

However, they must not be disposed of with your household waste but to a local separate collection system.



3.1 Identification of parts

Remote Control



3.2 The remote control

Using the remote control

To use the remote control, point it towards the front of the receiver.

The remote control will not operate if its path is blocked.

⚠ Attention

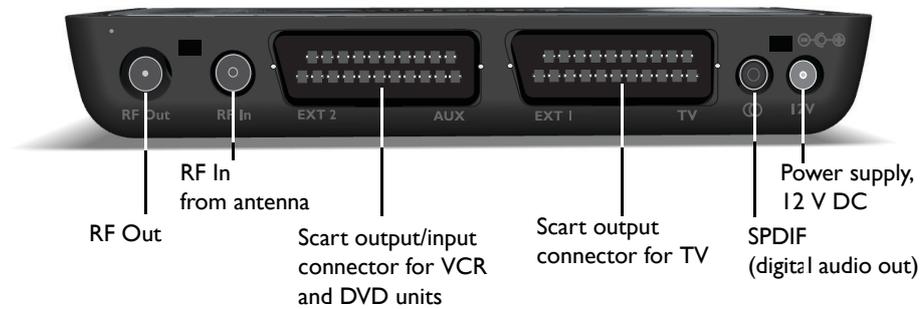
Sunlight or very bright light will decrease the sensitivity of the remote control.

3.3 Digital Terrestrial Receiver

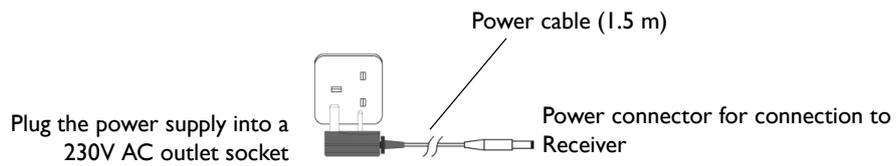
Front view



Rear view



3.4 Power supply



A mains power adaptor has been supplied for powering this equipment. It has an integral cable terminated in a power connector to plug directly into the 12V connector on the back of the Digital Terrestrial Receiver.

Plug the cable into the 12V DC connector on the rear panel of the Digital Terrestrial Receiver. Insert the adaptor body into a suitable mains outlet socket.

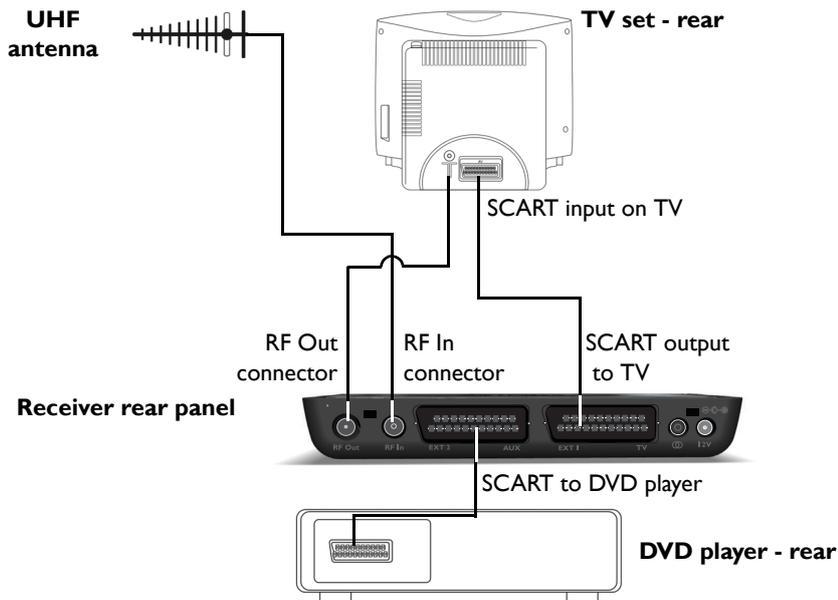
Note that the only recommended way to disconnect the Digital Terrestrial Receiver from the mains supply is to remove the adaptor from the mains socket. If the mains socket is fitted with a switch, this could be used instead.



3.5 Connecting your Digital Terrestrial Receiver to other equipment

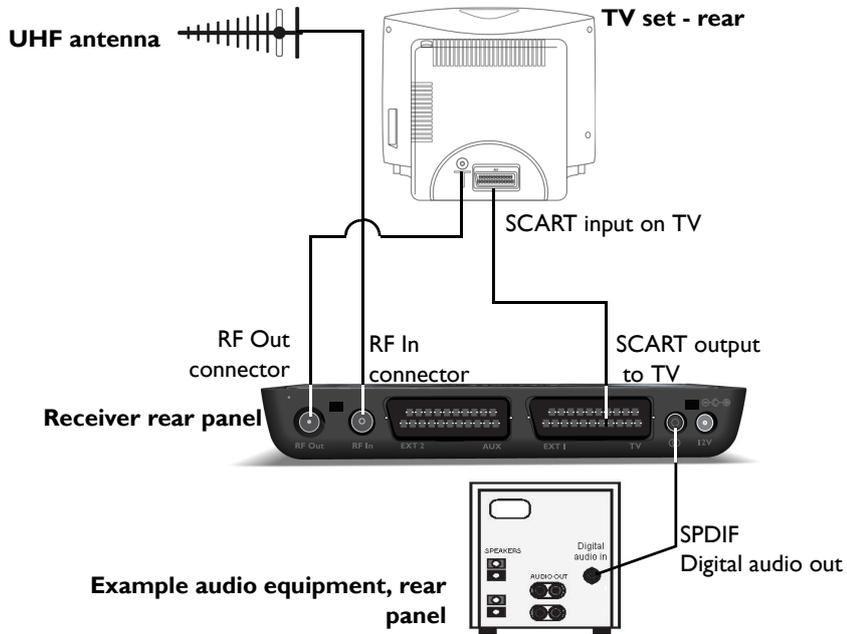
The following diagrams are of typical configurations only, and may differ slightly to your existing external equipment. If you are unsure on how to connect to your receiver, always consult your manufacturer's user guide supplied with your equipment.

Connecting to a television and DVD player



If you decide to connect a DVD player or recorder to the VCR Scart of your digital receiver, we advise to set the DVD output format to CVBS or PAL. Refer to the user manual of your DVD player or recorder. You can use a S/Pdif connector to connect your Receiver to a digital sound input device, such as a receiver.

Connecting to a TV and audio equipment



4 Operation

4.1 Switch-on/switch-off

Switch the receiver on by pressing the **ON/OFF** key (standby key) on the remote control and wait until you see the welcome image on your screen.

The LED is off if the receiver is switched on.

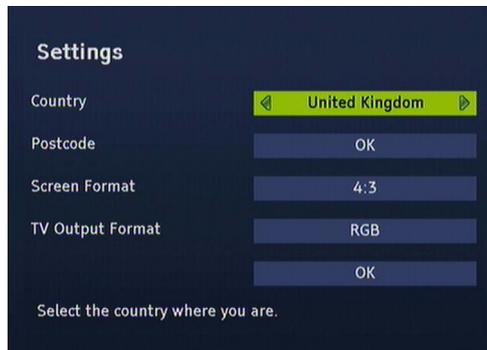
When you switch on your receiver for the first time, the LED is blinking while the software is loading. Follow the steps explained in the section Initial installation on this page.

When the receiver is in stand-by mode the LED is green.

During a software update process the LED is blinking.

4.2 Initial installation

After the first switch-on, the following window is displayed on your screen.



Note

Also observe the information messages displayed on the screen. These will help you to set the correct values. Also with regard to further operation, information messages are displayed.

1 Now successively set the desired values. In doing so, observe the following:

- By using the **arrow keys** ◀ or ▶, you change the displayed values,
- By using the **arrow keys** ▲ or ▼, you switch between the individual setting possibilities.

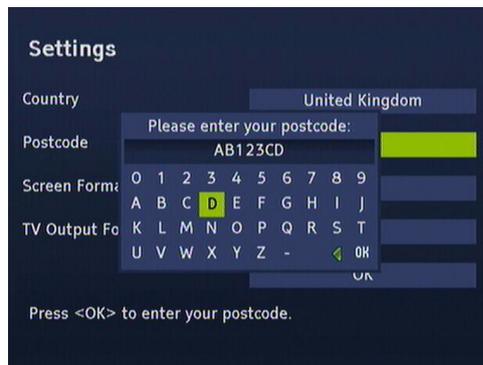
2 Then highlight the **OK** field by using the **arrow key** ▲ or ▼, and press the **OK key**.

Entering the postcode

3 Select the item **Postcode** and press the **OK key**.

4 Use the **arrow keys** to select a figure or letter. Press the **OK key**.

5 Repeat the previous steps until having completely entered your postcode.



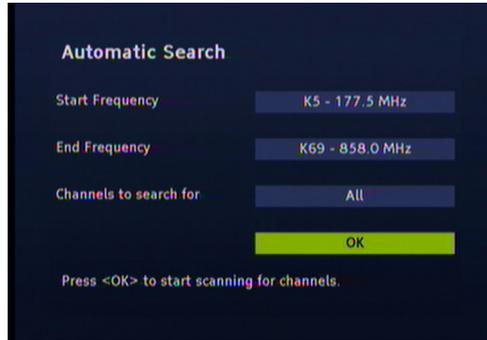
6 Again press the **OK key**.

Note

The menu item **General** allows for entering and later changing of the postcode.

Automatic search

The next window is displayed:



Note

The displayed values for the start and stop frequency can normally be maintained.

- 7 Make use of the **arrow keys** ◀ or ▶ to modify the start and end frequency values, if desired.
- 8 By means of the **arrow keys** ◀ or ▶ you determine the channels to be searched for: **All channels**, or channels that are **Free-to-air only**.
- 9 Then highlight the **OK** field by using the **arrow key** ▲ or ▼ next to **Start scan mode**, and press the **OK key**.

The scan mode is started. The screen dialog thereby provides information on the progress of the channel search.



Note

By pressing the **EXIT key** you can stop the scan mode at any time.

During receiver set-up and channel scanning, the signal strength will indicate your antenna reception. If you reach at least 50% Signal Strength, then your antenna and receiver are properly connected. If it remains under the 10% gauge, then you need to first check the cable connection. If the "Quality" gauge reaches at least 50%, then you can be sure that you are indeed receiving digital broadcast signals.

If your reception is not optimal (few channels or "blocky" image), your antenna installation should be checked by a professional as it may need to be redirected or fixed.

Terrestrial service coverage

Digital terrestrial broadcasting is progressing throughout Europe. Please note that the reception of digital signals may need to be verified as it can be adversely affected by physical elements, such as mountainous areas, high buildings, etc. When analogue broadcasting in your region is switched off, there should be a quality improvement for all digital broadcasting. As analogue switch off occurs, the number of digital channels available in each region may also be affected. Please check what is available in your area on the relevant website:

- www.digitaluk.co.uk (UK)
- www.tnt-gratuite.fr (France)
- www.tdt.es (España)
- www.ueberallfernsehen.de (Deutschland)
- www.dtgvi.com (Italia)
- www.digi-tv.dk (Denmark)
- www.digitv.fi (Finland)
- www.teracom.se (Sweden)
- www.digitalinfo.cz (Czech Republic)

Retuning

Please first your installation (both the receiver and, if necessary, the antenna set-up*). It must be clear that during digital switchover, there are a lot of modifications on the broadcasting/transmitters that may even need a few days or even weeks before stabilizing. This is unfortunately an unavoidable consequence of the digital switchover technology change. Please refer to the relevant local information website for information on upgrade to the broadcast network.

4.3 Ready for watching TV

As soon as the search is completed, an according message is displayed. Acknowledge this and the following message by **OK**, in order to proceed to the TV replay.

Note

In order to carry out a new initial installation, you have to reset the device to its default settings, see page 21.

4.4 Change of channel

You can change the channel in different ways:

- By pressing the **channel key** **+** or **-**.
- By pressing the **arrow keys** **▲** or **▼**.
- By pressing the **BACK / P<P** key, you switch between the two last selected channels.
- By selecting the channel directly via the channel list, see page 17.
- By entering the channel number in the channel list. For this purpose, enter the number via the **numerical keys**. If, for instance, the channel number is 0014, quickly press the numerical keys **1** and **4** successively. The zeros do not have to be entered.

4.5 Volume control



- Use the **volume keys** **+** and **-** for increasing or decreasing the volume, or
- use the **arrow keys** **◀** or **▶** for this purpose.

Mute function

By pressing the **MUTE** key, the sound reproduction is stopped. The sound is audible again if you ...

- ... press the **MUTE** key again, or
- ... press one of the volume control keys.

4.6 Calling up information banner

Every time you change the channel, the information banner is displayed.



- Press the **INFO** key to call up the information banner without changing the channel.

The information banner displays the selected channel memory number and the channel name. In addition, the time is displayed on the left edge of the information banner.

The display bar on the right next to the time graphically indicates the program time that has already elapsed. The lower menu line displays the current and the next program including its broadcasting time. After several seconds, the information banner is automatically hidden again.

Note

You can define the display time of the information banner for yourself, or completely prevent the automatic display, see "Menu settings" on page 24.

While the information banner is displayed on the lower screen edge, you can call up the extended

information banner by pressing the **INFO** key again. The extended information banner supplies further details with regard to the current program.



Observe:

- If the text is more extensive, it is distributed to several pages. By repeatedly pressing the **OK** key, you browse the pages (**arrow keys** ▲ and ▼ are also possible).
- If you press the **INFO** or **arrow key** ►, information on the next program is displayed. By pressing the **arrow key** ◀, you return to the information on the current program.

Note

The extended information banner is not automatically closed.

- 2 Press the **EXIT** key in order to close the information banner.

4.7 Using options

Some channels occasionally provide several sound tracks and/or subtitles tracks.

If a channel provides one or more of these options, the respective key name is displayed in the right corner when calling up the channel, whereby also several names can be displayed, e. g.

I-II and **I-III**.



This means that, for instance, a sound, subtitles, or text selection is provided.



How to use the options:

- 1 Call up the desired channel.
 - 2 Press the **I-II** key for sound selection.
- If a teletext is offered, you can call it up by using the **TEXT** key or **Red** key.

4.8 Text/MHEG

With the **TEXT** key you may access additional Text and Multimedia contents. MHEG (Multimedia and Hypermedia Expert Group) is a standard that offers you information about various contents like life style, shopping or sports events and results.

- 1 Press the **TEXT** key or **RED** key to bring up the text menu for the current channel.
- 2 Use the arrow keys ▲ or ▼ to navigate through the menu.
- 3 Use the **OK** key to select an item. Additionally the four colour keys (Red, Green, Yellow and Blue) help you to navigate through the content of a page. Their use varies for different stations. Function is commonly explained at the bottom of the display.
- 4 Press the **Text** key again to leave the MHEG, or press the **EXIT** key.

I-II

Press the **I-II** key for quick access to language selection.

TIMER

Press the **TIMER** key for quick access to the Timers menu.

LIST/FAV

Press the **LIST** key for quick access to Favourite Lists menu.

4.9 Using channel list

- 1 Press the **LIST/FAV** key or **OK** button to call up the channel list.

This list contains all TV channels the device has found and stored during automatic channel scan.

**Note**

After having pressed the **LIST/FAV** key again, the favourites list is displayed. This individual channel list only contains the channels you have "favoured". For further information on this, see Chapter 4.10. Favourites are indicated by an asterisk in the channel list.

- 2 Use the **arrow keys** to select the desired channel from the list.
 - By using the **arrow keys** \blacktriangle or \blacktriangledown , you highlight the next or the previous channel in the list.

- By using the **arrow keys** \blacktriangleleft or \blacktriangleright , you skip eight positions in the channel list forwards or backwards.
- 3 Use the **TEXT /Page up** and the **Page down** keys to display the proceeding or the next page.
 - 4 Press the **OK** key after you have selected the desired channel.

The program of the selected channel is displayed in the background; the channel list remains open for another several seconds.

During this time, you can select another channel by using the **arrow keys**, or press the **OK** key in order to close the channel list immediately.

Note

If the device is switched to radio mode, you can also carry out the previously described actions in the same manner for the stored radio channels. You can switch from **TV list** to **RADIO list** using the **RADIO** key.

4.10 Creating and editing channel list

Possibly the channel list may appear too complex to you or contain channels that you are not interested in watching.

Via the main menu, you can edit and create your own favourite list.

- 1 Press the **MENU** key.
- 2 Select the menu item **Sort channels** by using the **arrow keys** \blacktriangle or \blacktriangledown and press the **OK** key.



- After you have carried out the desired settings, press the **EXIT key** in order to close the window.

Defining channels as your favourites

The favourites list contains all channels you have defined as favourites. By means of this list, you can create a personalised channel list.

- Select the channel you want to indicate as a favourite by using the **arrow keys** **▲** or **▼**.
- Press the **OK key** to add the channel to the favourite list.
- Repeat this process with all channels that you want to indicate as favourites.

Note

The previously described functions are also provided to you with regard to the radio channel list.

Press the **RADIO key** to call up the overview for the radio channels. You can return to the TV channel list by pressing the **RADIO key** again.

Shifting channels in the favourite list

You can individually set the sequence of the channels within the channel list.

- Press **MENU key**.
- Highlight Search Channels, press **OK key**.
- Highlight the Favorite list.
- Highlight the channel you want to shift by using the **arrow keys** **▲** or **▼**.
- Press the **OK key** to confirm the channel to be shifted.
- Shift the highlighted channel to the desired position by using the **arrow keys** **▲** or **▼**.
- Press the **OK key** to store the channel at the desired position.

Deleting channels in the favourite list

- Highlight the channel you want to delete by using the **arrow keys** **▲** or **▼**.
- Press the **red colour key**.
- To delete all the channels in the favourite list, press the **yellow colour key**

4.1 Extended installation

In the main menu you can choose between **Automatic search** and **Manual search**.



After the initial installation, see page 13, it may be required to search for channels again, or to add specific channels that are additionally broadcast.

Channel search settings

- Highlight the item **Channel search settings** and press **OK**.
- Specify whether the channel list is to be automatically updated (**Automatic**) or not (**Off**).

Automatic search

This scan mode is recommended due to its feature of automatically finding all receivable channels.

- Highlight **Automatic search** and press the **OK key**.

Note

If above parameter is set to Automatic, your digital terrestrial receiver will automatically search for new channels every time that the box enters in Standby mode.

- Press the **OK key** to start the automatic scan mode

Following, the scan mode is started. After the search is completed, the following is displayed:



- 3 By using the **arrow key** ◀ or ▶ choose whether
 - the channels found are to be added to the old list (standard setting),
 - the old channel list is to be overwritten,
 - the new found channels are to be discarded.
- 4 Press the **OK key**.

Manual search

This type of scan mode allows you to install a group of channels for which you know the frequency.

- 1 Highlight **Manual search** and press the **OK key**.



- 2 Successively select the adjustable values by using the **arrow key** ▲ or ▼ .
 - The desired **Frequency** is set by the **arrow key** ◀ or ▶ .
 - The **Frequency in MHz** is entered via the **numerical keys** of the remote control.
- 3 Choose whether **All channels** or channels that are **Free-to-air only** are to be searched for.
- 4 Then highlight **OK** and press the **OK key** to start the expert scan mode.

Following, the scan mode is started.

- If some channels were found, you receive the same request as with regard to the automatic scan mode, see previous paragraph.
- If no channels were found, a message is displayed. Press the **OK key**.

4.12 EPG

The electronic program guide (EPG) offers you an overview of all programs to be broadcast in the next week on the current channel.

Observe:

- Not all channels offer an extensive EPG.
- Many broadcasting services broadcast the current day program but do not offer detailed descriptions.
- There are broadcasting services that do not offer any EPG information.
- Due to the progressive technical development, more and more broadcasting services will extend this offer in the future.

- 1 Select the desired channel.
- 2 Press the **EPG key** to call up the electronic program guide.



The following functions are offered to you by the EPG:

- If you require more information on a program, highlight it by using the **arrow key** 5 or 6, and press the **INFO key**.
- Change to the program of another day by using the green key (next day) or the red key (yesterday).

- Via the **arrow key** ◀ and ▶, you can select programs earlier or later in the day.
- By pressing the channel **+** or **-** key, you can view the EPG for another channel.
- If you want to adopt a program into the timer list, highlight it and press the **TIMER key**. Acknowledge the following request by pressing the **OK key**.

Note

Detailed information on the subject "timer" can be found in the next paragraph.

- 3 Close the EPG by pressing the **EXIT key**.

Weekly EPG

- 1 Select the desired channel.
- 2 Press the **EPG key** to call up the electronic programm guide.
- 3 Press the **EPG key** again.

The following functions are offered to you by the EPG:

- If you require more information on a program, highlight it by using the **arrow keys** ▲ or ▼, and press the **INFO key**.
- Change to the program of another day by using the arrow keys ◀ (day before) or ▶ (next day).
- 4 In order to switch between programs in the morning, in the afternoon or in the evening, press the colour keys as indicated in the EPG.
- 5 If you want to adopt a program into the timer list, highlight it and press the **TIMER key**. Acknowledge the following request by pressing the **OK key**.

Note

Detailed information on the subject "Timer" can be found in the next paragraph.

- 6 Close the EPG by pressing the **EXIT key**.

4.13 Timer

The Timer settings allows you:

- to set your digital terrestrial receiver to record a program using a video recorder or a DVD recorder.
- to set up a program reminder.

If your digital terrestrial receiver is operating, it will switch automatically on the selected program.

Note

Remember to program your video-tape recorder to the respective time.

Adding program to timer list from the EPG

The timer function is included into the timer list via the EPG, see previous paragraph.

- 1 Open the EPG and highlight the desired program.
- 2 Press the **TIMER key**.



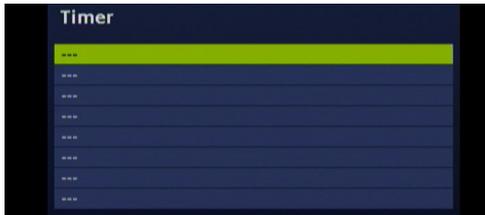
- 3 Press the **OK key**.

The window is closed and the selected program is stored in the timer list.

Creating or Modifying a timer

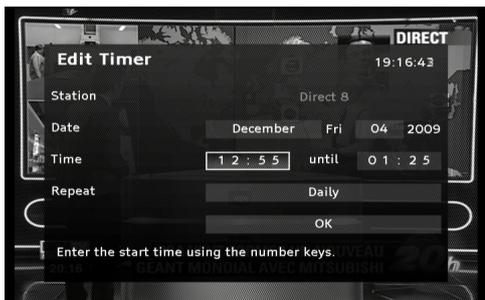
- Press **TIMER key** to display the list of timers.
- To create a new Timer, highlight ... and press the **OK key**.

- To modify an existing Timer, highlight the relevant Timer in the list and press the **OK** key.



- The **Station** field displays the channel name and is highlighted. To change the channel press **OK**. A list of channels appears.
- Select a channel in the list and press **OK**.

Edit Timer



- Alter the displayed settings by using the **arrow** and **numerical keys**. In doing so, you can:
 - Change the date (month and day)
 - The time (starting time and duration)
 - The cycle (interesting for series and regularly recurring programs)
- Then highlight **OK**, and press the **OK** key.

Deleting timer(s)

- Select the desired timer.
- Press the respective **colour key**:
red: the selected timer is deleted
yellow: all timers are deleted.
- Press the **OK** key to acknowledge the request.

Switching off current timer functions

Note

During a timer program, only few keys can be activated: **I-II**, the **volume keys +** and **-**, as well as the **MUTE** key.

To switch off the timer function:

- Press **On / Off**.
A program message is displayed.
- Press the **OK** key.

4.14 Miscellaneous functions

Restoring Factory Settings

You can reset the device to default settings. In doing so, the individually composed favourites list is deleted.

- Press the **MENU** key to open the main menu.
- Highlight the item **Box settings** by using the **arrow keys** **▲** or **▼** and press the **OK** key.
- Highlight the item **Restore factory settings** and press the **OK** key.



- Set **Yes** by using the **arrow key** **▶**, and press the **OK** key.

The device carries out a reboot. It switches off, and shortly afterwards switches on again.

- Carry out an initial installation, see page 13.

Displaying channel and system information / adjusting the antenna

This function solely serves to supply information on one channel. However, you can use it for adjusting your antenna and for improving the television reception.

- 1 Press the **MENU** key to open the main menu.
- 2 Highlight the item **Technical information** by using the **arrow keys** **▲** or **▼**, and press the **OK** key.
- 3 Select the item **Channel information** and press the **OK** key.

BBC ONE - Channel Information			
Frequency	K44 - 658.0 MHz		
Parameters	8K G-1/32 QAM-64 CR-3/4		
Network	300F	Rowridge	
Provider	BBC		
Service ID	4163	Audio PID	601
Teletext PID	0	Video PID	600
Signal Strength			95%
Signal Quality			100%

- 4 Adjust your antenna so that the two specifications **Signal strength** and **Signal quality** display a preferably high value.

Note

Depending on your antenna, you can possibly also carry out settings on your antenna.

- 5 Press the **EXIT** key once highlight System Information by using the **arrow keys** **▲** or **▼** and press the **OK** key.
Here you find technical information on your device. This information normally is only relevant with regard to support.
- 6 Press the **EXIT** key 3 times to return to the TV program.

Displaying the time

- 1 Press the **TEXT** key to receive a time display on the screen during program replay.
- 2 Press the **TEXT** key to hide the time again.

Update Software

Note

For this purpose, the device has to be set to standby operation.

Every night between 1 am and 5 am, the device checks whether a software update is available. If this is the case, you'll receive an according message when switching the receiver on the next time, and you can start the software update.

You can also start the search process manually.

- 1 Open the main menu and select the option **System information** from the field **Technical information**.
- 2 Highlight the item **Software update** by using the **arrow keys**.
- 3 Press the **OK** key to start the software update.

4.15 Radio

Note

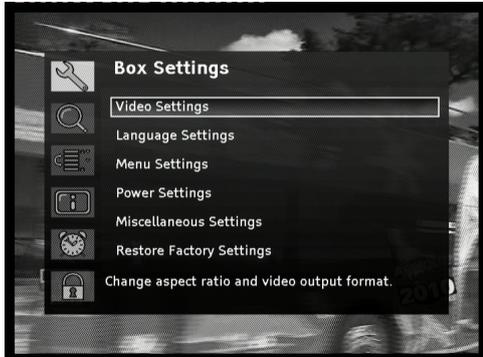
A digital radio program currently is not broadcast in all countries via antenna.

- 1 If a digital radio program is broadcast in your country, press the **RADIO** key to receive it.
- 2 In order to view the TV program again, press the **RADIO** key again.

4.16 Settings

- 1 Press the **MENU** key to open the main menu. The menu item **Box settings** is highlighted by default.
- 2 Press **OK**.

You'll receive the following screen:



3 By using the **arrow key** \uparrow or \downarrow , highlight the desired option and press the **OK key** in order to call it up.

Note

In either case, observe the information texts displayed on the screen. These will help you to select the correct settings.

Selecting and altering the settings is effected as usual by means of the **arrow keys** $\leftarrow / \rightarrow / \uparrow / \downarrow$; a window that is inserted can be closed by pressing the **EXIT key**.

4.17 Video settings

The video displayed on the TV depends on: screen format, decoder setting (picture format) and broadcast content format setting.

- **Screen format:** You can select screen format according with the TV you have: 4:3 or 16:9 Widescreen TV.
- **Picture Scaling:** Specify what is to happen in case the format of the transmitted picture does not correspond to that of your screen. The selected function's effect becomes visible immediately in the background.

Screen format 16:9 Widescreen TV

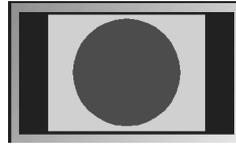
When having connected a 16:9 (Widescreen) screen, you are free to select one of the following options regarding 4:3-formatted pictures.

Automatic



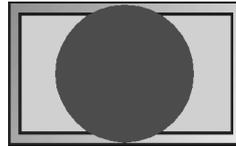
Presents the images in the 4:3 format in a screen-filling manner. However, the image is vertically compressed to avoid cutting of the top and bottom picture border.

Pillar box



Reduces a 4:3 mode picture for 16:9 format TVs to scale, and for this purpose inserts a black bar left and right on the screen.

Zoom

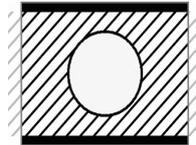


Presents images in 4:3 format in a screen-filling manner. Therefore, the top and bottom picture border are cut off.

Screen format 4:3

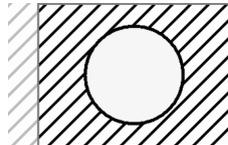
When having connected a (Standard) screen, you are free to select one of the following options regarding 16:9 (Widescreen) pictures.

Letter box 16:9

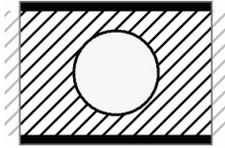


Reduces films in 16:9 mode for 4:3 format TVs to scale, and for this purpose inserts a black bar above and below on the screen.

Pan & Scan / CCO



Presents films in the 16:9 format in a screen-filling manner. With regard to 4:3 TVs, the left and right picture border is cut off.

Letter box 14:9

This setting represents a compromise between the other two settings. Small black bars are inserted and only a bit of the left and right picture border is cut off.

TV Output Format

For the "TV Output Format", the formats **RGB**, **video (CVBS)** and **S-Video (Y/C)** are provided. Here **RGB** presents the correct selection in most cases.

VCR Output Format
 **Note**

This item can only be selected, if you did **not** selected RGB with regard to the "TV Output Format".

Here you can choose between **Video (CVBS)** and **S-Video (Y/C)**.

AFD Automatic

The broadcast picture format may deviate from the picture format to be displayed. AFD recognizes and corrects the presentation if you select the option **ON**.

Restore Default settings

By means of this function you reset the configuration for the picture settings to previous set default values. These settings in most cases allow for an acceptable image & language reproduction.

4.18 Language settings**Menu language**

Here you set the language of the OSD (on-screen display).

Audio language

Select a reproduction language for the programs.

Audio language #2

Select an optional reproduction language for the programs.

Audio Description Automatic

Select **Off** or **On** to enable or disable audio description provided by the broadcaster.

 **Note**

If the desired program is not broadcast in the language set under "audio language", the "Audio language #2" is used.

Subtitle language

Select a language for the subtitles.

Subtitle language #2

Select an optional subtitle language for the subtitles, see also "Audio language #2".

Subtitles Automatic

Set this option to **On** if you want to automatically show broadcast subtitles in the selected subtitle language (default: **Off**).

4.19 Menu settings**Info Banner Duration**

Here you define for how long the information banner is to be shown with regard to a change of channel (see page 15). If you want to completely eliminate the information banner in case of a change of channel, select **None**.

Info Banner Automatic

At the start of a new program, the information banner is automatically shown as a default. If you do not want this, select **Off**.

Note

This option is only available if the value set under "display duration information banner" is at least 4 seconds.

Menu Transparency

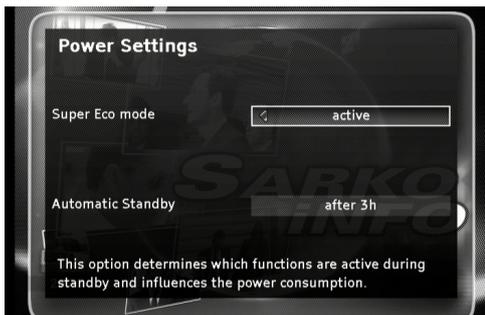
Here you set the transparency of the OSD. If you have difficulties to read the OSD with transparent setting, select **Not any**.

Remote Control Audio Feedback

Select a type of audio feedback for remote control key presses.

The options are: Off (no sound), Low, High and Key Dependent.

4.20 Power Settings



Super Eco Mode

This feature helps you to save energy. Use ◀ or ▶ keys to active / inactive Super Eco Mode.

Note: Important Information

The antenna signal is disabled (RF out) : you will not be able to watch TV.

Automatic standby

Select the time after which the box switches to Standby to save energy.

4.21 Miscellaneous Settings

Setting a time zone

Select whether the local time offset with regard to Greenwich mean time is to be set automatically, or if you want to specify it yourself.

Time zone

Select the entry **GMT +01:00** for Germany and Central Europe (time difference with regard to the Greenwich mean time).

Summer time

Set the menu item **Summer time** to **Off** if it is not summer time at the moment. You can also select the setting **Automatic**. In case of this setting, the receiver obtains the information regarding summer time from the currently selected channel.

Post code

If applicable, you can enter your post code here, e.g. following a move. This way, channel list updates can be optimized.

Channel List Update

Select Automatic or Off .

Audio output format

For the audio output, the formats **Mono** and **Stereo** are provided to you.

Dolby Digital Automatic

This options allows you to Enable/Disable the automatic detection of Dolby Digital audio channels. A message warns you to connect a Dolby Digital Home entertainment to your Digital Terrestrial Receiver if you select On.

Sorting

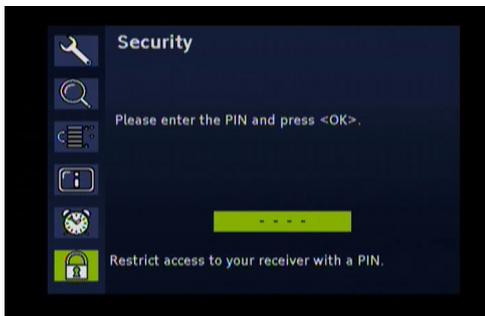
Modify the appearance and behaviour of the channel lists. The options are: A to Z, Z to A, Provider, Service ID and None.

4.22 Calling up default settings

This function has already been described elsewhere, see page 21.

4.23 Security

- 1 Press the **MENU** key.
- 2 Highlight the item **Security** by using the **arrow keys** and press the **OK** key.
- 3 Enter the PIN code and acknowledge by **OK**.



Note

The PIN code is set to 0000 by the factory. Also observe the displayed information. These will help you to select the correct settings.

Observe:

- Selecting and altering the settings is carried out as usual by means of the **arrow keys**.
- A displayed window can be closed by pressing the **EXIT** key.

Receiver lock

Set this option to **On** if you want to protect your complete device against unauthorized access.

When the receiver is switched on the next time, the PIN request is effected (the PIN code is set to 0000 by the factory).

Menu lock

Set this option to **On** if you want to protect your menu against unauthorized access.

When the menu is called up the next time, the PIN request is effected (the PIN code is set to 0000 by the factory).

Channel lock

Here you can protect specific channels from unauthorized access (e. g. by minors). These channels are protected with a PIN and are unlocked by a PIN request.

Changing device PIN

Here you can specify your personal PIN code.

- 1 Press the **OK** key.
- 2 For this purpose, enter the current PIN code and acknowledge by pressing the **OK** key.
- 3 Following, enter your new PIN code and press the **OK** key.
- 4 For acknowledging your new PIN code, enter it again and press the **OK** key.



5 Upkeeping

5.1 Cleaning

Use a soft, moist (but not wet) cloth for cleaning. You must not use scouring cloths or sponges or spraying bottles.

5.2 Maintenance

The Receiver does not contain any parts designed for maintenance or replacement. Do not try to open the housing. Only qualified and specialized personnel is allowed to execute any necessary maintenance work.

5.3 Disposal

High-quality materials were used to manufacture the device which may be recycled.

Please inform yourself about collecting sites for recycling electronic products nearby.

The device must not be disposed of together with the household waste. Proper disposal prevents negative effects for the environment and your personal health.

Trademarks and partner logos

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6 Troubleshooting

If you experience an operating problem with your Digital Terrestrial Receiver, please refer to the trouble-shooting table below and then the notes that follow.

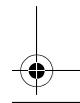
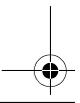
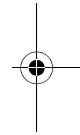
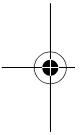
Symptom	Possible cause	Remedy
No picture and no sound	No channel list or wrong channel list	Do an automatic station scan
	Short circuit in aerial lead	Turn off receiver; remove short circuit and then turn on again
	Defective or missing cable connection	Check all cables
	Poorly adjusted aerial	Adjust aerial
	Loose connectors or cable too long	Check connectors and shorten cable
No picture or picture is blocky in appearance	Aerial too small	Use a bigger aerial
	SCART connector not fully plugged in	Check SCART connector
Sound but no picture	Aerial poorly adjusted or defective	Check aerial
	Program is being broadcast with altered parameters	Do an automatic search (see Advanced Installation)
	SCART connector not fully plugged in	Check SCART connector
Cannot receive station that you could receive before	Program is no longer broadcast	None
	Interference with „DECT“ phones or wireless equipment	Move phone/wireless equipment away from the receiver to a location where interference ceases
	Program is being broadcast with altered parameters	Do an automatic station scan.
Remote control is not working	Obstacle in between remote control and receiver	Remove obstacle
	Transport stream defect	Unplug receiver and then plug in again
	Flat battery	Replace battery



Symptom	Possible cause	Remedy
Certain stations cannot be received from time to time	These services are not transmitted 24 hours a day and can sometimes be unavailable. This is not a fault.	
Poor image quality or no colours	Wrong TV SCART out signal	Try changing from RGB to CVBS or vice versa (see Configuration)
	Inappropriate video type selected	Set video output according to TV set video requirements (see Configuration)
You have forgotten or lost your PIN code	Reset from the Parental Control Screen. To access the Parental Control Screen, use the following 4-digit code: 1978. Keep this code secret to prevent others from using it.	

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If none of the above suggestions seem to work, try switching your Receiver off and then on again. If this does not work, contact either your supplier or a qualified repair technician. Never attempt to repair your receiver yourself.



7 Technical Data

Reception- Demodulation

- Standard: DVB-T
 - Input frequency range (target): UHF IV / V
 - RF Loop-through bandwidth: 47 - 862 MHz
 - Channel bandwidth (BW) (target): 8 MHz
 - Network: MFN / SFN
 - Demodulation type: COFDM FFT 2K/8K
 - Constellation: QPSK, 16 QAM, 64 QAM
 - Code rate (CR): $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{7}{8}$
 - Guard interval (GI): $\frac{1}{32}$, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$
 - Input level range: -78 (*) to -25 dBm
- (*) BW 8MHz, FFT 8K, 64 QAM, CR $\frac{3}{4}$, GI $\frac{1}{4}$, no echo, no noise

Video decoding

Standard definition

- MPEG2 MP@ML
- Video bit rate \leq 15 Mbit/s
- Resolution: 576i max (720x576 pixels interlaced)
- Picture format: 4:3 and 16:9

Audio Decoding

- MPEG1 layer I, II

Convenience

- Automatic installation
- Up to 1000 channels
- Signal quality indicator
- Automatic channel update
- TV and Radio modes
- 4 x favorite TV channel lists
- 4 x favorite Radio channel lists
- Program list editing: Add, Move, Delete
- Parental control - Child lock

- 7 days Electronic Program Guide (EIT-S)
- Now & Next ESG (EIT p/f)
- Event timer / reminder: 8
- Event programming via EPG or ESG
- DVB subtitling
- Digital TXT / MHEG
- Digital audio bit stream output
- ECO power management
- Software update:
 - Update via OTA download
 - Local update (servicing only)

Application system resources

- Processor: PNX 8300
- SDRAM for AVG + System: 16 MB
- Flas - Data/Code: 2MB

Reception- Demodulation

- Band Reception: Band IV
Channel 21-68
- Active RF Loop-through:
Reception bandwidth (MHz): 470 - 854 MHz
- Switch to passive loop-through in OFF mode
- Channel bandwidth (BW) (target): 8 MHz
- Network: MFN / SFN

Rear connections

RF in: type IEC 169-2 female

RF out: type IEC 169-2 male

EXTI SCART

Outputs:

- CVBS* or RGB/FB, adjustable level L/R audio
- and Slow blanking

EXT 2 SCART

- Outputs:
 - CVBS* , L/R audio
- Inputs:
- CVBS* or RGB/FB, L/R audio, Slow blanking

Digital audio output: Cinch

* Video standard: PAL

Front panel: Display / Buttons

- 1x LED

Accessories

- Remote control
- Batteries: 2 x 1.5V type AAA/R03
- User manual
- AC /DC Power adaptor incl. mains cord

Miscellaneous

Temperature range (°C)

- Operating +5 to 45
- Storage -25 to +70

Mains: AC 230 V +/- 10% 50 Hz

Power consumption: < 5W

Standby: < 1 W

Weight: 0.4 Kg

Including packaging :1Kg

Dimensions:

- Product (mm): 200 x 35 x 95
- Packaging (mm): 260 x 55 x 175

Temperature

- Temperature-Range: +5°C +40°C

This product complies with the requirements of the 95/47/EC and 2002/21/EC directives.

The product complies with the following European council Directives: 2006/95/EC and 2004/108/EC.



