DTR**2000**

GB **Digital Terrestrial Receiver**

FIN **Digitaalinen Terrestriaalivastaanotin**

S **Digital Terrestrial mottagare**

Let's make things better.

PHILIPS

WELCOME TO DIGITAL TELEVISION

Congratulations on choosing the Philips DTR 2000 digital terrestrial receiver.
The DTR 2000 will allow you:
- To access to a wider variety of digital terrestrial television and radio channels, including Pay-TV(*).
- To benefit from digital video and audio quality.
- To easily access television channels via your aerial.

(*) To watch Pay-TV channels, you need to take out a subscription.

QUICK INSTALLATION

QUICK START UP

You already have an aerial.

Your aerial is correctly pointed at the terrestrial transmitter corresponding to your area.

Your digital receiver connection is according to the diagram depicted in chapter 5.1 or 5.2.

Your digital receiver is ON and the "WELCOME" screen is displayed for a short time. Then the "First Installation" screen is displayed. The selection is on "Language".
- Select the desired language using the ◄ or ► button.
- Press the ▼ button to move to "Country".
- Select the desired country and press "OK".

The next screen allows you to select the TV format.
- Press the ◄ or ► button to select the appropriate TV format and press "OK".

The receiver starts scanning for channels and reports scanning progress and number of channels found. When scanning is completed:
- Either scanning was performed successfully and the number of channels found is displayed. You can start watching TV.
- Or scanning failed and the "Channel installation failed" screen is displayed. If so proceed to chapter 6.2.

Note: If the first installation has already been performed successfully but you want to set another country, use the Reinstallation feature, available from the Setup menu.
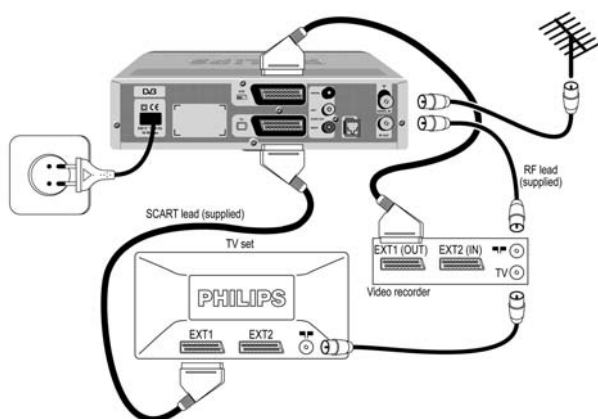
SCANNING FAILURE

Scanning failed. Before starting a new scanning, check:
- the aerial cable,
- the aerial cable connection to your digital receiver. Refer
  to the connection diagrams in chapter 5.1 or 5.2.
- channel(s) availability in the region corresponding to your
  area.

To exit the "Channel installation" failure screen:
- Press "OK". The "Signal quality testing" screen is displayed,
  with bargraphs indicating the signal strength and quality.
- Select a channel number using the remote control
  numerical keys and press "OK".

If the signal is good enough (indicated by green bar meters),
press OK to launch a new scanning. When scanning ends
successfully, the channels found are displayed and the digital
receiver tunes the first channel in the list. If so proceed to
chapter 7.

*Note: If you could still not install the channels after checking the
quality of the signal delivered by your aerial, either your aerial is
not pointing properly at the digital TV transmitter, or your aerial
installation needs to be upgraded, or you are not in the coverage
area to correctly receive digital television.*
For a proper diagnosis, call your electrical retailer.

TABLE OF CONTENTS

1 Safety instructions

All the safety and operating Instructions should be read and understood before using the receiver.

For best results, position your receiver away from radiators or other heat sources. Leave a space of at least 3 cm around the receiver for ventilation making sure that the ventilation holes are not obstructed.
This receiver is intended for use in a domestic environment only and should never be operated or stored in excessively hot, humid or damp conditions.
Make sure no objects or fluids enter the housing through the ventilation slots. Should this happen, disconnect your receiver from the mains and consult your retailer.
To clean the receiver, use a damp chamois leather. Never use an abrasive cloth, sponge or cleaner.
When connecting or disconnecting cables to the receiver always ensure the receiver is disconnected from the mains.
Please wait before connecting your receiver - read on.

Do not disassemble the equipment. There are no user serviceable parts.

Mains connection
Before connecting the receiver to the mains, check that the mains supply voltage corresponds to the voltage printed on the rear of the receiver. If the mains voltage is different, consult your dealer.

Please wait before connecting your receiver - read on.

2 Unpacking / Installing the receiver in your existing set-up

2.1 Unpacking

Start by unpacking your receiver. You will find the following cables and accessories:
- The digital terrestrial receiver
- The remote control and batteries (2 x LR6 AA 1,5 V)
- One SCART lead
- One RF coaxial lead
- A mains cord
- A user manual
- A Guarantee card
- A stand for using the receiver in the upright position.

Note: As advised in chapter 5, use the SCART lead provided. It has been selected to get the best picture quality and performance out of your digital receiver.

Plastic bags can be dangerous. To avoid suffocation keep the bag away from babies and children.

The symbol ♺ on the packaging means that material is recyclable.

If the receiver will not be used for a long time, unplug the mains cord from the wall socket.

2.2 Installing the receiver in your existing set-up

Your receiver can be integrated in different ways within your existing Audio-Video set up. The receiver can be used in the horizontal or vertical position. If you decide to use your receiver in the upright position, follow the instructions below:
- Unpack the stand, place it on a horizontal surface with click fit side on the left and lug side on the right.
- Position the receiver as shown below (rear panel on the left side / coaxial connectors on the bottom side).
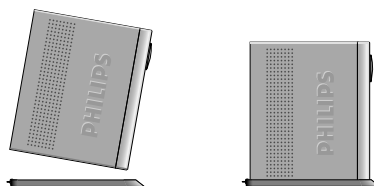
- Insert the stand lug in the slot located on the front of the receiver, close to the Philips badge.
- Rock the receiver to insert the stand lug fully in the slot until it is locked by the click fit.

From now on, your receiver can be used in the upright position.

Note: To remove the stand, unlock the click fit at the rear side of the stand, rocking and pulling back the receiver to extract it from the stand lug.

3 Product description

3.1 Front view
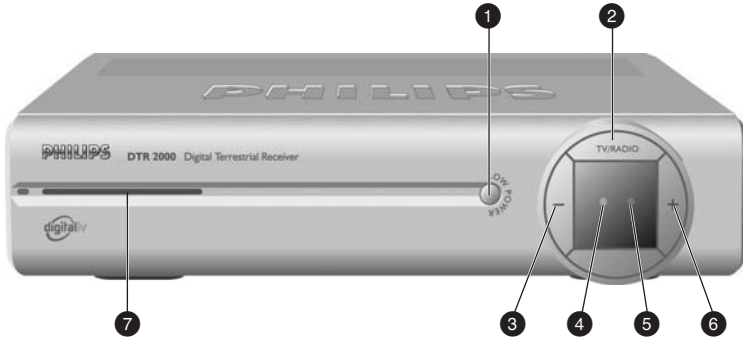
1 **LOW POWER button:** .... Switch receiver ON or to "low power" mode.
   Reset the receiver after a 5 second key press.

2 **TV/RADIO button** .... Toggle between TV and Radio mode.

3 **"-" button** .... Channel down.

4 **Multicolour LED indicator** ...... Display receiver status (see status indicator table).

5 **Red LED indicator** .... Display receiver status (see status indicator table).
   Blink at remote control command reception.

6 **"+" button** .... Channel up.

7 **Smart Card slot** .... Insert the smart card with the chip facing up.

Status indicator table

LED Mode	Right-hand LED (Green/Orange)	Left-hand LED (Red)
Receiver off mains		
Low power mode		Red
Standby mode	Orange	
TV/Radio mode	Green	
Timer mode from running mode	Green	Red
Timer mode from standby mode	Orange	Red

Note: If you have put your receiver in "standby" or "low power" mode and the red, right-hand LED is blinking, it indicates that a free over-the-air upgrade of your receiver is taking place. Do not interrupt this operation. Wait until the LED stops blinking and the left-hand LED is either orange or red (signalling either "standby" or "low power" mode). You can then continue as normal.

3.2   Rear view
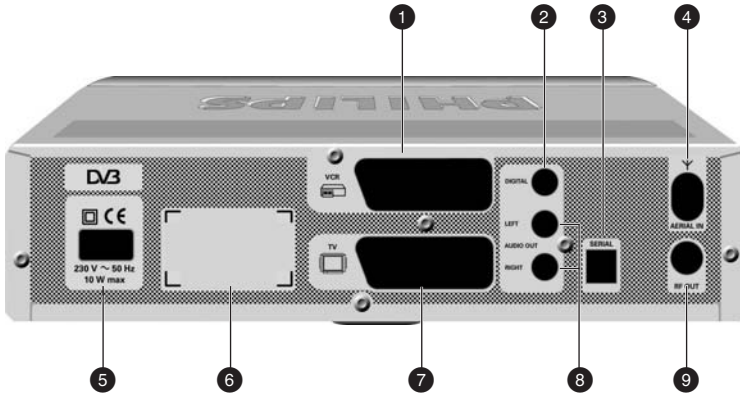
1 VCR (*) .... SCART (1) socket to connect your video recorder
                                       or DVD player/recorder
2 Digital audio output (*) .... Coaxial Digital audio output to connect your HIFI /
                                       Audio receiver system
3 Serial (*) .... RJ 9 socket for serial data transfer during servicing
4 AERIAL IN (*) .... Input to connect your UHF aerial
5 230V~50Hz 10W max (**) ... Socket to connect the Mains cord
6 .... Label showing the type and serial number of the receiver
7 TV (*) .... SCART (1) socket to connect to your TV set or a video
                                       projector (2)
8 L/R Audio out (*) .... Left/Right audio outputs to connect your HIFI /
                                       Audio receiver system
9 RF out (*) .... RF output to be connected to the aerial input of your video
                                       recorder or TV set. Refer to chapter 5 for recommended
                                       connection diagrams.

(1) SCART is also called Euroconnector or Peritel.
(2) To connect a video projector to the TV SCART socket, refer to chapter 5.4.

* Safety Extra Low Voltage (SELV)
** Hazardous Voltage (HV)

4   Preparing your remote control

4.1   Inserting batteries

- Remove the back cover.
- Insert the two batteries (type LR6/AA - 1.5 V) supplied.
- Place them in the remote control battery compartment as shown in the diagram.
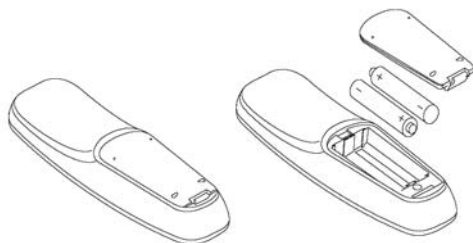
- Replace the cover.

Your remote is now ready to control your digital terrestrial receiver.

The Philips batteries supplied with your receiver's remote do not contain heavy metals such as Mercury or Lead Cadmium. Nevertheless, in many countries, exhausted batteries may not be disposed of with your household waste.

Please enquire about the local regulations regarding the disposal of used batteries.

Do not dispose of the batteries with your household waste.

4.2   Using the remote control

Mute 🔇
- Audio mute

RED, GREEN, YELLOW, BLUE
- Active in Favourites list only

FAV
- Toggle between favourite lists
SUBTITLE 💬
- Temporarily starts/stops or change Audio Subtitling
I-II
- Temporary update of audio language and selection of audio mode

MENU
- Open/Close menu (in digital TV mode)
CURSOR keys
- The ▲ and ▼ cursor keys are used to move within the menus and lists
- The ◄ and ► cursor keys are used to select a value in a menu item
OK
- Select / call up channel lists / zap
VOLUME ⊿ +/ -
- Volume up / down.

TV / STB
- Toggle between Digital and Analogue TV/VCR/DVD.

Standby ⏻
- Standby / ON

Λ (blue) resp. V (white)
- Scrolls one Page Up or one Page Down in guide or favourite lists

GUIDE
- Open Now & Next Guide
INFO
- Open info banner
- Show extended programme information
- Close banner
TIMER
- Set a recording timer when watching Digital TV or from the GUIDE feature.

The **"TIMER, 0"** sequence keystroke deletes the current running timer

BACK
- Selects the previously watched digital TV channel
- In menu mode
  Either exit the menu
  Or bring selection one level back
  Or bring selection back one level and cancel the changes you have made.

P+ / P-
- Selection of next / previous channel

TV / RADIO
- Toggle TV / Radio mode

0-9
- Channel selection in digital TV mode

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5 Connecting your digital receiver

There are several ways you can connect and integrate your digital receiver into your existing audio / video equipment setup.

Warning!
Before starting:
- Unplug all equipment (TV set as well as VCR and/or DVD if required) from the mains. Do not connect your digital receiver to mains supply now.
- Check your current wiring because you might keep existing connections of your current Audio/Video setup.
- Choose the relevant connecting method for incorporating your digital receiver into your existing Audio/Video setup. Please see chapters 5.1 and 5.2.

Note: If your TV set is fitted with several SCART sockets, to get the best picture quality, select the one that is RGB-capable to connect the supplied SCART lead coming from your digital receiver TV SCART socket. If necessary, refer to your TV set User manual.

5.1 Connecting to a TV using one SCART socket

Integrate your receiver in your existing installation as shown below.
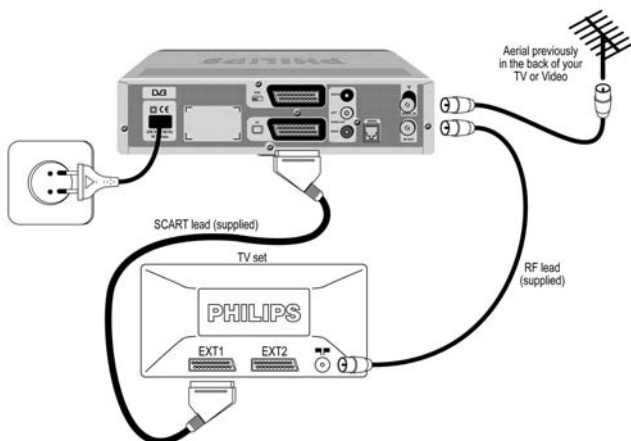
- Plug your aerial lead plug into the "AERIAL IN" socket of your digital receiver.
- Connect the "RF OUT" socket of your digital receiver to the "Aerial input" socket of your TV by means of the RF coaxial lead supplied with your digital receiver.
- Connect the "TV" SCART socket of your digital receiver to the RGB-capable "EXT1" SCART socket of your TV set by means of the SCART lead supplied with your digital receiver.

- Plug all your equipment, excluding your digital receiver, into the mains.
- Switch on your TV and select a channel.
- Plug your digital receiver into the mains. Your digital receiver will display the "WELCOME" screen (the left-hand LED will be illuminated green).
- Go to Quick installation to proceed with the channel scan of your digital receiver.

 If the "WELCOME" screen is not displayed, press the TV/STB button two times to get the screen displayed.

Note: With this connection set up you can:
- Watch digital terrestrial TV through your digital receiver.
- Continue watching analogue TV as normal.

5.2   Connecting to a TV and VCR both fitted with SCART sockets

Incorporate your receiver in your existing installation as shown below.
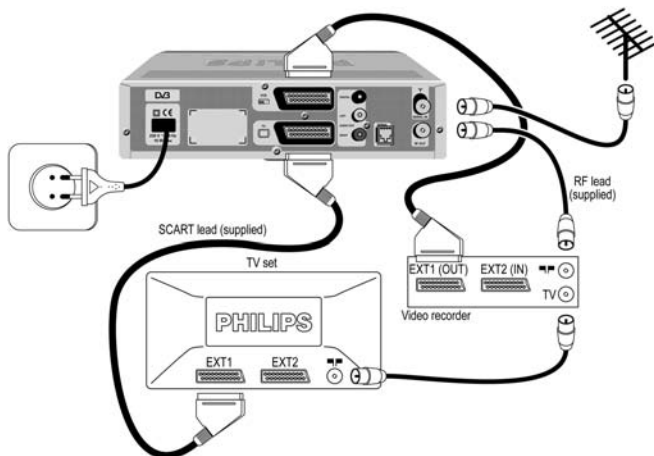
- Plug your aerial lead plug into the "AERIAL IN" socket of your digital receiver.
- Connect the "RF OUT" socket of your digital receiver to the "Aerial input" socket of your VCR using the RF coaxial lead supplied with your digital receiver.
- Connect the "RF OUT" socket of your VCR to the "Aerial input" socket of your TV using a RF coaxial lead.
- Connect the "TV" SCART socket of your digital receiver to the "EXT1" SCART socket of your TV using the SCART lead supplied with your digital receiver.
- Connect the "VCR" SCART socket of your digital receiver to the RGB-capable "EXT1" SCART socket of your VCR using a SCART lead.
- Plug all your equipment, excluding your digital receiver, into the mains.
- Switch on your TV and select a channel.

- Plug your digital receiver into the mains. Turn it on using any remote control number button. Your digital receiver will display the "WELCOME" screen (the left-hand LED will be illuminated green).
- Go to Quick installation to proceed with the channel scan.

Note:
1- This connection also applies if your VCR has two SCART sockets.
2- If you have a S-Video VCR, refer to chapter 7.2.2 for further settings and consult the User manual of your VCR.
3- With this connection set up, you can:
  - *Watch digital TV while you record analogue TV.*   - *Watch Play Back from your VCR.*
  - *Watch analogue TV while you record digital TV.*   - *Continue to record analogue TV.*
  - *Record the digital TV channel you are watching.*

5.3 Connecting to your HiFi / Audio receiver equipment (Analogue / Digital)

Depending on your HiFi / Audio receiver equipment, you might have several options to connect your digital receiver.

Analogue connection
Connect the L/R audio output sockets to the relevant L/R audio input sockets of your audio equipment using a double CINCH cable (not supplied). Consult the user manual of your HiFi/Audio receiver equipment to choose the proper analogue audio inputs.

Note: With this connection set up you can control the audio volume up/down and mute using your digital receiver or Hi-fi remote control.

Digital connection
Connect the audio "DIGITAL" output socket to the relevant digital audio input socket of your audio equipment using a single CINCH cable (not supplied). Consult the user manual of your HiFi/Audio receiver equipment to choose the proper digital audio input.

Note: With this connection set up you can only control the audio volume up/down and mute with your HiFi/Audio receiver remote control, refer to the relevant User manual.

5.4 Connecting of a Video projector to your receiver to watch Digital TV programmes on a video projector

Connect the "TV" SCART socket of your digital receiver, to your video projector.
Video projectors are often fed with S-Video format video signals. If this is the case with your projector, follow the instructions below for connection and installation:
- Connect a SCART to the S-Video adapter between the TV SCART of your digital receiver and the S-VIDEO input of your video projector.
- Installation: refer to chapter 7.2.2 to change the "TV/VCR output" setting of your digital receiver to S-VIDEO/PAL-CVBS.

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6 Day to day operation

6.1 Switch your receiver ON/OFF (low power, standby)

The rigth-hand led is lit in red
Your receiver is in "Low power" mode.
- Press the "LOW POWER" button on the front of your receiver to restore the previous mode, i.e. either standby or running mode. This will take a few seconds.

Note: Your remote does not control the receiver when it is in "Low power" mode.

The left-hand led is lit in orange
Your receiver is in standby mode.
To switch to running mode:
- Either press the following remote buttons: "P+", "P-", "BACK", "TV/RADIO", or any number button.
- Or press the "TV/RADIO" button on the front panel.
To put your receiver in "Low power" mode (<1W consumption):
- Press the "LOW POWER" button on the front of your receiver.

The left-hand led is lit in green
You are in running mode.
To put your receiver in standby:
- Press the remote standby button.
To put your receiver in "Low power" mode (<1W consumption):
- Press the front panel "LOW POWER" button.

6.2 Select TV or Radio service in running mode

To switch your receiver from TV to RADIO and RADIO to TV:
- Press the remote control or the front panel "TV/RADIO" button.

Note: The front panel and remote control "TV/Radio" buttons have the same function.

6.3 Change channels

6.3.1 Using number buttons

While watching digital TV or listening to digital radio:
- Dial a number using the remote number buttons to select the corresponding channel.
- Press the "OK" button to confirm or just wait for the selection to take effect.

6.3.2 Using "P+"/"P-" buttons

While watching digital TV or listening to digital radio:
- Press "P+" to select the next channel in the current channel list.
- Press "P-" to select the previous channel in the current channel list.

Note: The "-" and "+" buttons on the front panel have the same function as the "P-" and "P+" buttons on the remote control.

6.3.3 Using the "BACK" button (last channel recall)

While watching digital TV or listening to digital radio:
- Press the "BACK" button to select the previous TV/radio channel.

6.3.4 Using channel lists
(Service selector)

This feature is used to select channels from a list.
To access the current channel list while watching digital TV
or listening to digital radio:
- Press the "OK" button to display the current channel list
  (either the list of available channels or favourite list
  previously selected).
- Press the ▲ or ▼ button to select a channel. Scroll from
  one page to another using the white or blue remote
  control button. You can preview the selected channel in
  the right-hand side of the screen.
- Press "OK" again to view/listen to the selected channel in
  full screen.
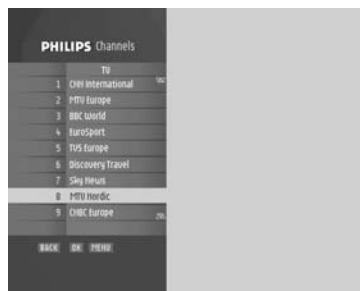
*Note: If the list includes several pages, keep pressing the ▲ or ▼
button to access the previous or next pages.*

To access any channels list, including favourites lists:
- Press the "OK" button once to display the current channel
  list.
- Successively press "FAV" to display the other lists. Then
  proceed as indicated above to select a channel.

Note: Empty favourite lists cannot be opened.

6.4 Banner

A banner is used to display information about the current
channel and programme.
Each time you select a new channel, a banner appears at the
bottom of the screen displaying:
- the channel name and number in the current channel list,
- the current programme and next programme names,
- icons indicating the channel properties, e.g. channel lock
  status (locked or temporarily unlocked),
- a bargraph indicating:
    o the start time of the current programme,
    o the start time of the next programme,
    o the current progress.

icon	description
I-II	alternate audio language/format
FAV	current favourite list
🔒	maturity rating locked
①	scrambled channel
🔒	locked channel
[...]	subtitles presence
🗏	teletext presence

Abstract
No event information is available

TU   9   TU 5 Europe
X   X   No event information is available
INFO OK
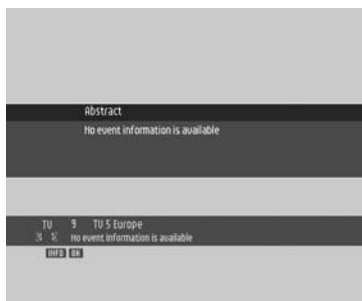
To display the banner:
- Press the "INFO" button.
For more info while the banner is on:
- Press the "INFO" button a second time to get more info about the current programme.
To close the banner:
- Press the "OK" button.

Note: Press the" INFO" button once to access the banner and twice to get more information about the current and next programmes. Press the "INFO" button a third time to return to digital TV.

6.5   Volume control - Vol+ / Vol- / Mute

While watching digital TV or listening to digital radio:
- Press "Vol-" to decrease the volume.
- Press "Vol+" to increase the volume.
- Press "MUTE" to mute the sound.
- Press "MUTE" again to de-mute.

Note: Change of volume is signalled on-screen using a bargraph, while audio mute is signalled with an icon in the top right corner of the screen.

6.6   Temporarily change the Subtitles selection
- Press the subtitles button to access the "Subtitles Language" screen.
- Either enable the subtitles by selecting one of the available languages using the ◄ or ► button.
- Or switch subtitles off by selecting "no subtitle".
- Press OK to confirm and exit the screen.

Note: By default, subtitles are disabled.

6.7   Temporarily change the Audio language selection
- Press the I/II button to access the "Audio Languages" screen.
- Select from the audio languages available using the
  ◄ or ► button.

- Press ▼ to move to Audio mode and select from the audio modes available using the ◄ or ► button.
- Press OK to confirm and exit the screen.

6.8 Guide (Event selector)

While watching digital TV or listening to digital radio:
- Press the "GUIDE" button to open the event selector. Current view is current channel list called.
- Press the ► button to view the next program list.
- Press the ▼ or ▲ to select a programme.
- Press the "OK" button to watch / listen to the selected channel.

6.9 Recording timers

Recording timers are used to perform VCR or DVD recordings.

Set a timer while watching digital TV or listening to digital radio
- Press the "TIMER" button to set a recording timer on the current programme on the current channel. A confirmation message is displayed.
- Press "OK" to confirm recording or "BACK" to cancel.

Set a timer from the guide
- Press the "TIMER" button to set a recording timer on the selected programme.
- Enter your PIN code and press OK to confirm. The "Timers" screen is displayed.
- Press "OK" to access the "Add Timer". You can then set the recording parameters.

Delete a running timer while watching digital TV or listening to digital radio
A timer is running and you are watching the programme you are recording. Recording is signalled by two front LEDs, the right-hand one lit in red and the left-hand one lit in green. To delete the running timer:
- Press the key sequence "TIMER, 0". The red light then switches off and you can change channels.

Delete a running timer while the receiver is in standby

A timer is running and your receiver is in standby. Recording is signalled by two front LEDs, the right-hand one is red and the left hand one is orange.
- Switch the receiver to running mode.
- Press the key sequence "TIMER, 0" to delete the running timer. The red light then switches off and you can change channels.

6.10   Using the TV/STB button

This button is used to switch between watching digital channels through your digital receiver and standard analogue channels.
While watching digital TV:
- Press the TV/STB button to switch to analogue TV/VCR/DVD.
- Press again to revert to digital TV.
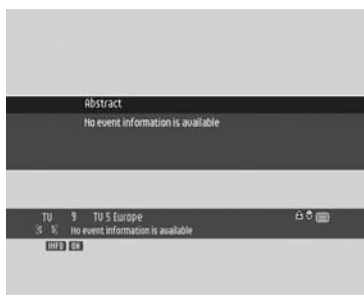
6.11   Watching locked channels

If you select a locked channel, you are prompted to enter your PIN code:
- Enter your 4-digit PIN code (default 0000) and press "OK" to unlock the selected channel and watch it.

6.12   How do I reset my receiver

- Press the "LOW POWER" button on the receiver front panel for at least 5 seconds. Your Preferences settings will not be lost.
- Release the button and wait for a stable front display indication (i.e. the left LED is either orange for standby mode or green for TV mode). You can then continue with normal operation.

7 Changing the settings of your receiver

You can change the receiver settings to adapt the receiver to your aerial conditions, Audio/Video setup or other preferences.

7.1 Menus and settings

Basics about menu navigation
While watching digital TV or listening to the radio:
- Press the "MENU" button to display the "Main menu" screen.
- Press the ▲ or ▼ button to scroll up or down and select the desired menu item.
- Press "OK" to display the corresponding sub-items.
- Press the ▲ or ▼ button to move to the desired sub-item.

Note: Press the "MENU" button to go back to the main menu or "BACK" button to go back one step.

Change settings
Once you highlighted the appropriate sub-item:
- Press "OK" to display the corresponding screen.
  You can then access the values and make changes using the ◄ or ► button to select an option and numerical buttons to enter numerical values.

Cancel/Store changes
- Either press the "BACK" button to exit the screen without storing changes.
- Or press the "OK" button to validate changes and exit the screen.
In both cases, the selection moves one level up in the menu.

Note: To open a locked menu item (indicated by a lock icon), you will need to enter your PIN code.

7.2 "Setup" menu

This menu is used to configure your receiver.

Note: If the parental control is enabled (see chapter 7.7.2), you need to enter your PIN code to access this menu.

7.2.1   Channels installation

This feature is used to select the type of installation from the following options:

7.2.1.1 Update

This option is used to automatically scan for new channels and add these to the channels already installed.
To launch an update:
- Select "Update" using the ◄ or ► button.
- Press the "OK" button to launch the update.
The "Update in progress" screen is displayed, indicating the scanning progress and number of channels found. Press "BACK" to cancel the operation.

7.2.1.2 Custom update

This option is used to manually scan for new channels and add these to the channels already installed.
To perform a custom update:
- Select "Custom Update" using the ◄ or ► button.
- Move to "Channel Number" using the ▼ button.
- Select a channel number using the remote control number buttons.
- Press the "OK" button to tune to the channel number.
- Press "OK" again to launch installation.
The "Manual update in progress" screen is displayed, indicating the scanning progress and number of channels found.

7.2.1.3 Full reinstallation

This option is used to fully reinstall all available channels.
To perform full reinstallation:
- Select "Full reinstallation" using the ◄ or ► button.
- Press the "OK" button to launch the reinstallation.
The "Full reinstallation progress" screen is displayed, indicating the scanning progress and number of channels found.

7.2.1.4 Installation success/failure

Depending on the installation results, a screen is displayed:
- Either indicating the number of channels found.
- Or indicating that installation failed.
In both cases, press the OK button to go back to the main menu.

7.2.2 TV/VCR configuration

This feature is used to configure your STB outputs.
Use the ▲ or ▼ button to move from one item to another.
Select a value for each using the ◄ or ► button, then press
"OK" to confirm or "BACK" to cancel.

Note: These settings have been preset for your country.

7.2.2.1 TV Format

This feature is used to select the viewing format that best
suits your TV.

   o 16/9
   o 4:3 Letterbox
   o 4:3 Pan&Scan

7.2.2.2 TV output signal

This feature is used to match your TV and VCR output
signals.

   o RGB
   o PAL
   o SECAM
   o S-VIDEO

7.2.2.3 TV audio signal

Depending on the capability of your TV, select one of the
following options:

   o Stereo
   o Mono

7.2.2.4 VCR output signal

*Note: This value is automatically set by the system according to
the "TV output signal" option you selected.*

   o PAL
   o SECAM
   o S-VHS

7.2.2.5 VCR recording control

This feature is used to select the control method that best suits your VCR:

   o NO
   o PREPARE RECORD
   o RECORD LINK

For more details, see chapter 10.

Note: This setting is also applicable for Philips DVD recorders or other brand equipment that support one the two control systems.

7.2.3 Time Setting

This screen is used to set the local time offset with respect to actual local time obtained from the network.
- Scroll up or down to select the appropriate offset value (from -12 to +12).
- Press "OK" to store the selected value and go back to the previous screen or BACK" to cancel and go back to the previous screen.

7.2.4 Remote Control Setting

If you have other equipment in your home and the remote control of the Philips receiver causes interferences, you can change the setting of the remote control using this feature.

To change the remote control setting:
- Press number buttons 1 and 3 simultaneously for 3 seconds.
- Release the two buttons simultaneously.
- Enter the new setting:
   o Either press number button 4 (corresponding to the new setting);
   o Or press number button 3 to come back to the default setting.

Notes: You have 120 seconds to perform changes. At the end of this time period, the "Remote control change" screen is displayed, indicating whether you changed the remote control setting or not. At first power up of the remote control (or battery change while pressing a button) the default setting (value 3) is restored.

7.2.5 Reinstallation

This feature is used to reset the receiver, i.e. erase all services and user preferences.
- Either press the "OK" button to erase all data and go to the "WELCOME" screen.
- Or press the BACK button to go back to the previous screen.

7.3 Favourites lists

This menu is used to create, modify and delete favourites lists.

7.3.1 Create a Favourites list

This feature is used to define criteria for a new favourites list. The list default name is displayed at the top of the screen.
- Move to "Channels" using the ▼ button.
- Select the service type, i.e. either "TV channels" or "Radio channels".
- Move to "Free2air/scrambled" using the ▼ button.
- Select the encoding type, i.e. "Free2air" for free channels only, "scrambled" for scrambled channels only or "All" to select all available channels.
- Press "OK" to create the list with the selected criteria. The "favourites lists" screen is displayed.
- Press "BACK" or "MENU" to go back to the main menu.

7.3.2 Modify a Favourites list

This screen is used to modify a favourite list.

The current list name is displayed above the list. Use the "FAV" button to access other lists. In the case of a new list, all the channels matching the criteria selected at the creation are listed. To select a modification option, press the button of the corresponding colour.

7.3.2.1 Add/Skip a channel (green button)
- Select a channel from the list.
- Press the green button to add the selected channel to the current list or skip it.
The channels belonging to the current list are signalled with markers.
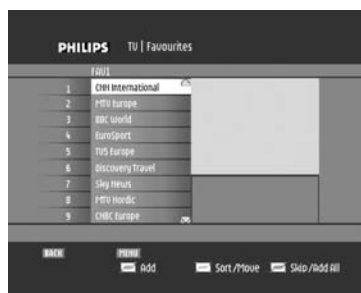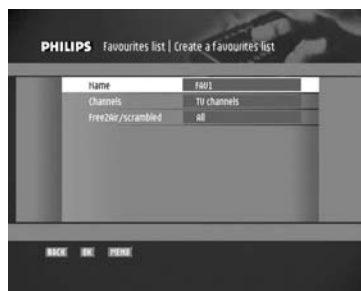
7.3.2.2 Lock/unlock a channel (red button)

- Select a channel belonging to the current list.
- Press the red button to lock or unlock the selected channel.

Locked channels are signalled with a lock icon.

Note: The channel is not only locked or unlocked in the current list, but also in any list it belongs to.

7.3.2.3 Sort/move a channel (yellow button)

This option is used to sort the channels of the current list in alphabetical order or manually.

To sort the channels of the current list in alphabetical order:

- Press the red button; the channels are sorted automatically.

To move the channels of the current list manually:

- Press the green button.
- Highlight the channel to be moved and press "OK".
- Select the new channel position and press "OK".
  The channel moves to this position in the list.

7.3.2.4 Skip/Add all channel (blue button)

To skip/add all available services to the current list:

- Press the blue button.

To skip all the available services from the current list:

- Press the red button.

To add all the available services to the current list:

- Press the green button.

The channels belonging to the current list are signalled with a white marker.

7.3.2.5 Saving confirmation popup

If you made any modification using the above screens, a confirmation popup is displayed, prompting for confirmation that you want to save the modification(s).
To save the modification(s):

- Select Yes using the ◄ or ► button.
- Press the "OK" button.

To go back to the "Modify a programme list" screen:

- Press the "BACK" button.

7.3.3 Delete a Favourites list

To delete a favourite list:
- Select the favourites list you want to delete the ▲ or ▼ button.
- Press "OK". A popup screen is displayed, prompting for confirmation that you want to delete the list.
- Press the "OK" button. A confirmation message is displayed.

From the confirmation message screen, you can go back to the "Favourites list" screen by pressing the "OK" button or "Delete a favourites list" by pressing the "BACK" button.
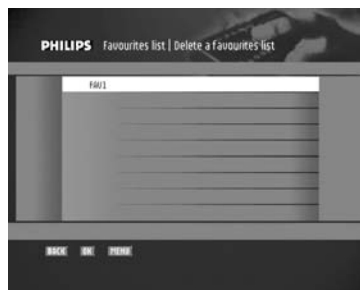
7.4 Timers

Timers are used to perform VCR or DVD recordings, or turn the receiver to standby mode (sleep timer).

Note: If the parental control is enabled, you need to enter your PIN code to access this menu.

7.4.1 Add timer

This feature is used to set new timers. By default the current day, time and channel are preset.
- Modify these values as necessary, using the ◄ or ► button to select the month, repeat mode and channel, and numerical buttons to enter numerical values:
  - o Day
  - o Month
  - o Repeat
  - o Start time
  - o Stop time
  - o Channel
- Press "OK" to store the values and move to the "Service selector" screen.

Note: If some of the selected values are incorrect, or in case of a timer conflict, an error message is displayed. Modify the appropriate value(s) and press "OK" again.

To modify existing timers, use the "Modify timer" feature.

7.4.2 Modify timer

When selecting the "Modify timer" item, the first screen displayed is the "Timer list" screen:
- Select the existing timer you want to modify.
- Press the "OK" button to confirm your choice. The "Modify timer" screen is displayed. This screen is identical to the "Add timer" screen described above.
- Modify the appropriate value(s).
- Press the "OK" button to store the values and move to the "Service selector" screen.

Note: If some of the selected values are incorrect, or in case of a timer conflict, an error message is displayed. Modify the appropriate value(s) and press "OK" again.

7.4.3 Delete timer

This menu is used to delete existing timers.
When selecting the "Delete timer" item, the first screen displayed is the "Timer list" screen:
- Select the existing event you want to delete.
- Press the OK button to confirm deletion.

7.4.4 Sleep Timer

This screen is used to set sleep timers. Sleep timers are used to automatically turn off the receiver after a set time.
To set a sleep timer:
- Select the sleep timer duration using the ◄ or ► button.
- Press the OK button to validate the selected value and go back to the "Timers" screen.

7.5 New channels

This feature is used to view the list of new channels installed following an update.

7.6   Subscription Settings

The information that can de accessed through this menu depend on the operator supplying the smart card.

7.7   User preferences

This menu is used to customize your receiver.

Note: Access to this menu can be protected by PIN code.

7.7.1   Languages

This screen is used to select a language for the menu items, the default audio language, and the subtitles language:
- Select a language for each item.
- Press the OK button to store the languages selected and go back to the previous screen.

7.7.2   Parental Control

Note: Once the Parental Control has been enabled, you need to enter your PIN code to access this menu.

This menu is used to manage locking options.
- Select values for the following options:
  o Parental Control (to enable parental control or not). Enable parental control to access the subsequent locking options
  o Receiver lock (to be prompted to enter the PIN code at turn-on)
  o Setup menu lock (to lock access to the "Setup menu" screen)
  o Service lock (to enable locking of the channels set as "locked" in the favourites lists)
  o Maturity level (to specify an age limit and prevent access to all programmes which are not in the age limits as defined by local authorities).
- Press the "OK" button to validate all parameters and go back to the previous screen.

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7.7.3   Pin code change

This screen is used to modify the 4-digit code you are prompted to enter to access locked channels or menus. When selecting the "PIN code change" item, the first screen displayed is the "PIN code" screen.

Note: This screen is displayed each time you try to access a locked menu or channel.

To change your PIN code:
- Enter your PIN code as prompted.
- Press the OK button. You are then prompted to enter your new PIN code.
- Enter a new 4-digit code.
- Press the OK button. A new field is displayed to confirm the new PIN code.
- Enter the new PIN code in the lower field.
- Press OK to validate your new PIN code and go back to the previous screen.

Note: If you have forgotten your PIN code, you can reset it to the default PIN code ("0000") using the following key sequence: blue/yellow/red/green/white/yellow. Keep this code secret to prevent others from using it. This feature is available only when the "PIN code access" screen is displayed.

7.8   System Information

This screen is used to view information about the receiver, including the receiver reference, software version and hardware type.
It is also used to set the receiver software update mode. To select the update mode:
- Select the software update option from the followings:
    o Ask (to be prompted to download or not software updates)
    o Always (to automatically download software updates)
    o Never (not to download any software updates).
- Press the OK button to confirm.

Note: Software updates will upgrade your receiver and ensure smooth operation. We advise you to accept the downloads offered. If you choose to be prompted to download ("Ask" option), an alarm will be displayed when new software is detected.

8   Menu tree

Main menu

Favourites lists	→	Create a favourite list	→	Name
		Modify a favourite list		Channels
		Delete a favourite list		Free2Air/scrambled

Sort
Skip/Add
Lock Service
Skip/Add all

Choose List

🔒 Timers	→	Add timer		Day
		Modify timer from list	→ Timer list	Month
		Delete timer from list		Repeat
		Sleep timer	→ Sleep timer	Start time
				Stop time
				Channel

| New channels | → | New channels installed |

| Subscription settings | → | CONAX Access Control |

Menu language
Audio language
Subtitles language

Display time

🔒 User preferences	→	Languages		Parental Control
		Banner time-out		Receiver lock
		Parental control		Setup menu lock
		PIN code change		Channel lock
				Maturity level

| PIN code | → | New PIN code |

🔒 Setup	→	Channels installation	→	Installation mode
		TV/VCR Configuration		TV Format
		Time Settings		TV output signal
		Remote control setting		TV audio signal
		Reinstallation		VCR output signal
				VCR recording control

Actual Date
Time
Local Time offset

System information	→	Product Reference
		Software image ID
		Hardware ID
		Software upgrade option

Remote control

Re-installation confirmation

9 More about recording (VCR or DVD control)

9.1 Connection for Easy recording

This connection allows automatic recording without requiring you to programme your VCR or DVD recorder. Prior to choosing this connection method:
- Consult the user manual of your VCR or DVD recorder to check if and how this feature is supported. Most Philips VCR and DVD recorders support one of the two Easy-recording options.
- Check that your TV and VCR or DVD both have two SCART sockets.
- Incorporate your receiver in your existing installation as shown below:
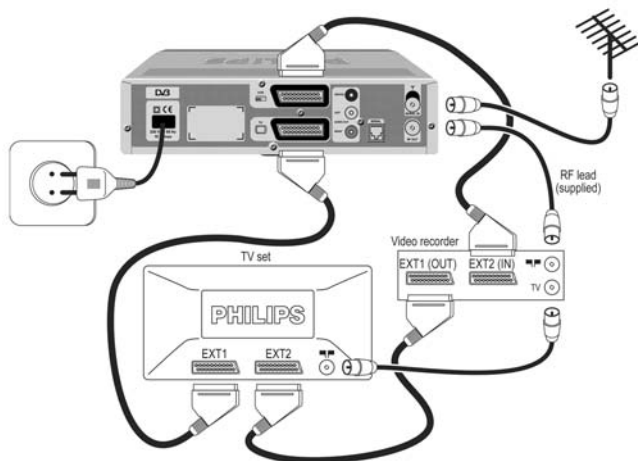
- Plug your aerial lead plug into the "AERIAL IN" socket of your digital receiver.
- Connect the "RF OUT" socket of your digital receiver to the "Aerial input" socket of your VCR or DVD using the RF coaxial lead supplied with your digital receiver.
- Connect the "RF OUT" socket of your VCR or DVD to the "Aerial input" socket of your TV using a RF coaxial lead.
- Connect the "TV" SCART socket of your digital receiver to the "EXT1" SCART socket of your TV using the SCART lead supplied with your digital receiver.
- Connect the "VCR" SCART socket of your digital receiver to the "EXT2" SCART socket of your VCR (called "IN") using a SCART lead.
- Connect the "EXT1" SCART socket of your VCR (called "OUT") to the "EXT2" SCART socket of your TV using a SCART lead.
- Plug all your equipment, excluding your digital receiver, into the mains.
- Switch on your TV and select a channel.
- Plug your receiver into the mains. The "WELCOME" screen is displayed (the left-hand LED will be illuminated green).
- Read the Quick installation chapter to proceed with the channel scan of your digital receiver if not already done.

With this connection set up:
- You can watch digital TV while you record analogue TV.
- You can watch analogue TV while you record digital TV.
- You can record the digital TV channel you are watching.

Note: Some VCR or DVD recorders need to be in standby to use the Easy recording or Record link features. Refer to your VCR or DVD User manual.

9.2 Digital receiver and VCR or DVD settings

Refer to chapter 9.1 for information on how to enable the "Easy Recording" function of your digital receiver.
- Depending on your VCR or DVD brand and type, you have to set the "VCR recording control" option to "Prepare Record" or "Record Link". Refer to the VCR or DVD User manual or try the two options to find out which is most suitable.
- Set your VCR or DVD to the mode allowing control by your digital receiver.

9.3 Recording with the VCR control feature

- Your digital receiver, TV and VCR or DVD are connected and set according to 10.1.
- You have programmed a timer with your digital receiver.
- At timer start, your VCR or DVD starts recording and at timer end, it stops recording under the control of your digital receiver. You no longer need VCR or DVD programming to record digital TV channels.

10 Trouble shooting guide

Experiencing difficulty operating your digital receiver? Check the following points first!

Problem	Possible cause	Action
No picture, no sound and no front panel indication.	Receiver is not plugged into the mains. None of the front LED's are on.	Check mains connection and press the "LOW POWER" button on the front of the receiver.
No picture, no sound but the front panel shows orange left-hand LED on.	The receiver is in standby.	Press either P+ or P- button or any number button to bring the receiver out of standby.
No wake up at remote control key press and the red right-hand LED is on.	Your receiver is in Low Power Mode.	Press the "Low Power" button on front panel then press any remote control number button to wake up your receiver.
	You changed the remote control code while exceeding the 120 seconds window. The receiver did not receive the new code.	Refer to chapter 7.2.4.
No picture, no sound but the front panel shows the green left-hand LED on.	You are viewing standard analogue television.	Press the TV/STB button on your remote.
	The SCART connection to the TV is incorrect or is loose.	Check SCART-TV connection, making sure cables are firmly pushed into the sockets.
	Your TV has not selected the correct AV/EXT channel.	Try manually selecting the AV/EXT channel on your TV.
The remote does not operate.	A timer is running, the receiver is locked. The front LEDs are either green/red or orange/red	Press successively the "TIMER" and the "0" buttons to cancel the timer and unlock the receiver.
	The remote control batteries have been inserted incorrectly or are dead.	Check the condition of the batteries and replace if necessary.
	You are not aiming your remote control at the receiver.	Make sure you aim the remote at the receiver and not at the TV
You cannot find all the channels you think should be available.	The signal to your aerial may be weak.	Try retuning your receiver, following the relevant steps in chapter Quick installation. If you are still missing channels, your aerial may need adjusting.

Problem	Possible cause	Action
	Your aerial may need adjusting or your local transmitter may not be working.	Call your local dealer.
You sometimes see a squared pattern on the screen, your picture is "freezing" or a picture showing a TV with a noisy pattern.	There could be a transmission problem.	This is normally only a temporary situation and should correct itself.
	Your aerial may have been moved, for example by severe weather.	Check signal quality and if necessary re-align your aerial.
	Your aerial connection has become loose or disconnected.	Check all aerial connections and make sure they are all firmly pushed into sockets.
You cannot select all of your channels and the P+/- or arrow up/down buttons do not always work.	Some channels have been selected as favourites and the favourites mode is on.	Use the "FAV" button to select another Favourite list. Use the All TV Channel list to see all possible TV channels.
Even if you use the number buttons, you cannot access a particular channel.	The parental lock has been activated on this channel and an OSD message ask for your parental code.	Enter your parental code to access the channel or remove it as a locked channel. See chapter 7.7.2 for more details.
You have forgotten your parental code.		See chapter 7.7.3
You set a timer but did not record what you wanted.	The video was set incorrectly.	Make sure that your video is set for the same time as your digital receiver. Alternatively use one of the Easy Recording options to control automatically your VCR or DVD (see chapter 9.1)
The order of the channels has changed.	They have been re-arranged as described in chapter 7.3.2.3.	Refer to this chapter to change the order again.
The on-screen displays are not as sharp as expected.	If you have connected using SCART and you have an RGB-compatible TV, one of the receiver settings could be wrong. You have connected the receiver TV SCART to a SCART socket of your TV set which is not RGB-capable	Refer to chapter 7.2.2 and alter the "TV / VCR output" setting to RGB/CVBS. Check if the TV SCART socket of the TV is RGB-capable, if not refer to the user manual of your TV to change the SCART connection to your TV.
The picture on some channels seems to have been stretched or squashed.	The broadcast is probably in wide screen and the receiver settings may not be correct.	Check the receiver "TV format" option setting, following the information in chapter 7.2.2. If you have a wide screen TV, you may also need to check the settings on your TV.

11 Technical specifications

This product is in conformity with the requirements of the 95/47/EC and 2002/21/EC European directives.

Video decoding

- Pay-TV ready
  (Conax embedded)
- MPEG-2 DVB compliant up to MP@ML
- Video bit rate: up to 15 Mbit/sec
- Video format: 4:3
  (letter box if source is in 16:9) and 16:9
- Resolution: up to 720x576 pixels

Audio decoding

MPEG layer I / II

Ease of Installation

- Automatic program installation via
  scanning
- Automatic program list update
- Program editing for personalised
  installation (delete, add, move)

Ease of Use

- Direct access TV & Radio modes
- 4 Fav. list for TV programs
- 4 Fav. list for Radio programs
- Automatic recording via Timer
  programming and Easy recording for
  VCR and DVD+/- RW
- Now & Next ESG
- Electronic Program Guide per channel
  when broadcasted

Operation/Features

- Direct access TV & Radio modes
- Free-to-air reception and Pay TV ready
- Subtitles
- Parental lock with PIN code
- Full remote-controlled
- Menu-controlled installation and
  operation using On Screen Display
- 8 event VCR timers
- Automatic VCR play back: Audio L/R +
  CVBS or RGB / Fast blanking
- Full range RF loopthrough
- Software upgrade via over the air
  download
- Low power mode
- Sleep timer
- Alternate audio tracks

Application system resources

Processor clock speed	166 MHz
SDRAM-CPU/Video-Graphics	8 MB
Flash memory	4 MB

Terrestrial antenna interface

- RF input :   IEC 169-2
                            female connector
- RF output (bypass):   IEC 169-2 male
                                connector

Reception-Demodulation

- Demodulation type:
                            COFDM 2K/ 8K
- Network: MFN /SFN
- Input frequency range :
                            VHF III & UHF IV /V
- Loopthrough frequency range:
                            47 - 862 MHz

De-scrambling

Type:	DVB
Implementation:	embedded
Smart card (not supplied): 1 for CA	
CA system:	Conax
Note: subscription is required to watch	
	Pay TV

Connections

TV SCART
Output: CVBS PAL or SECAM, RGB ,
         Slow blanking ,
         Fast blanking
         S-Video (for LCD projector)
         Controlled audio L/R

VCR SCART
Input: CVBS PAL or SECAM, Slow
         blanking, Audio L/R, RGB / Fast
         blanking
Output: CVBS PAL or SECAM, Slow
         blanking during timer if "Prepare
         Record" mode is activated
         SVHS
         Audio L/R

Audio CINCH
Analogue audio output:
                            L/R/Digital audio
Digital audio output:
                            PCM+DOLBY 5.1
Serial interface: RJ 9
Smart card reader: Type: ISO 7816

Accessories

- Remote control Type RC19336002
- SCART cable
- User manual
- Worldwide Guarantee booklet
- Batteries: 2 x 1.5V type AA/R06
- RF cable
- Mains cord

Miscellaneous

- Temperature range (°C)
  o Operating   +5 to 45
  o Storage   -10 to +70
- Mains: 230 V ~ +/-10%
                                    50 Hz
- Power consumption: 10 W max
- Standby consumption: 6 W max
- Low power mode: 1 W max
- Weight: 1.450 kg
  Including packaging   2.500 kg
- Dimensions:
  o Product   260x220x60 mm
  o Packaging   365x305x140 mm

The product complies with the following European council Directives:

CE
- 73/23/EEC
- 93/68/EEC
- 89/336/EEC

Due to continued product improvements, this information is subject to change without notice.

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