DTR4610/28
DTR2610/28

MANUELE D'UTILIZZO
USER MANUAL

(nero per il DTR2610)

PHILIPS

Meaning of symbols

⚠️	Important information: Must be read and understood.
♲	The "Material recyclability symbol" affixed on the package cardboard and user manual means these parts are recyclable. So do not dispose of them with your normal household waste.
♲ 02	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 "Green Dot" affixed on cardboard means PHILIPS pays a financial duty to the "Avoidance and Recovery of Packaging Waste" organization.

Safety and environmental instructions

⚠️ *Your receiver has been manufactured to meet the appropriate safety standards, but the instructions below should be followed to operate it safely.*
These instructions must be kept for future reference.

- 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 the dealer.
- The receiver does not contain any user-serviceable parts. All maintenance work must be carried out by qualified personnel.
- If you disconnect the receiver from the mains, make sure to unplug it from the wall socket and not just from the AC socket at the back of the unit. Children could seriously injure themselves, as the free end of the cable is still alive.
- Unplug the receiver during lightning storms.
- To prevent fire or shock hazard, do not expose this equipment to rain or moisture.
- The receiver should be placed on a firm surface, and the ventilation openings must not be covered with items such as newspapers, table clothes, curtains, etc.
- Do not install the receiver near any heat sources such as radiators, stoves or any other apparatus that produces heat. Protect it from direct sunlight.
- When installing the receiver, ensure there is a gap of approximately 2.5 cm around the receiver to enable air to circulate freely and prevent overheating.
- Leave accessible the mains connector at the back of the unit in case emergency shutdown is required.
- Do not place any combustible objects on the receiver (candles, etc.).
- No objects filled with liquids, such as vases, should be placed on the unit. The receiver should not be exposed to dripping or splashing. Should this happen, disconnect your receiver from the mains and consult your dealer.
- Make sure that children do not place any foreign objects in any of the openings.
- For cleaning, use a soft, damp (not wet) cloth. Never use any abrasive cloth or aerosol cleaners.

Contents

English

1 Unpacking

As you unpack your receiver, please make sure the following accessories are included:

| Remote control with batteries | Mains cord | SCART cable | Phone cord (adapter not supplied) (DTR4610 only) | RF cable (DTR4610 only) |

The package also includes the following documents:
- User Manual
- Philips World-Wide Guarantee

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

2 Installation guide

Please refer to the safety section before connecting your receiver.

TV set

EXT1   EXT2

Video recorder

TV
EXT1 (out)   EXT2 (in)

Terrestrial receiver

PHONE LINE

DVB

230 V ~ 50 Hz 15 W max

VCR

TV

DIGITAL

LEFT

AUDIO OUT

RIGHT

SERIAL

AERIAL IN

RF OUT
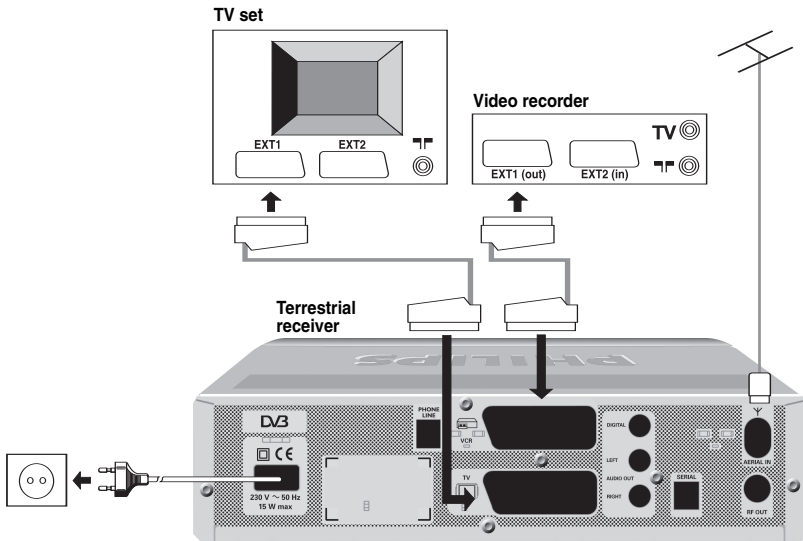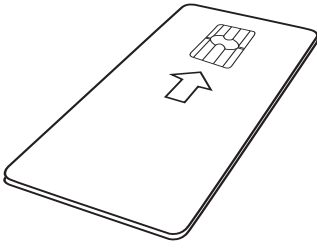
The smart card golden or silver contacts must be facing up at card insertion.

When this crossed-out wheeled bin symbol is attached to a product or its packaging, it means the product is covered by the European Directive 2002/96/EC.
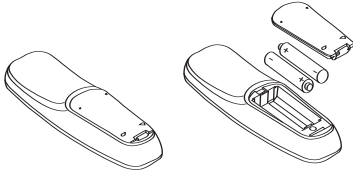
Please inform yourself about the local separate collection system for electronic products.

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 consequence for the environment and human health.

1 Disconnect your TV set and recorder from the mains.

2 Integrate your receiver in your existing installation as shown on the above diagram.

3 Insert the two batteries supplied in your remote control.

4 Reconnect your TV set and recorder to the mains. Do not connect your receiver to the mains yet!

5 Switch on your TV set and select a channel.

6 Plug the receiver's power supply cord to the mains. The receiver front panel green LED gets on.

7 Now you should see the **Welcome** screen on your TV screen. After a few seconds, the **Welcome** screen disappears.

8 Then, a screen appears, that allows you to select the language. Highlight the desired language by pressing ▲ or ▼ , and then press **OK**.

You are prompted to confirm your choice by pressing **OK** again.

4 **INSTALLATION GUIDE**

9 Next, highlight the country where you operate the receiver by pressing ▲ or ▼, and then press **OK**.

You are prompted to confirm your choice by pressing **OK** again.

10 The next screen is used to select both the TV screen format corresponding to your TV set and update mode. Highlight the appropriate format by pressing ◄ or ►, then move to the update mode selection using ▲ or ▼, and highlight Yes to allow for automatic software update. Alternatively, highlight No if you prefer to be notified when software update is available. Press **OK** to initiate the channel search.

11 Once it has been completed, the receiver tunes to the first found TV channel.

Now you are ready to enjoy viewing digital terrestrial TV. Refer to chapter 5 and 6 to learn more about using your receiver.

3 Product description

3.1 Front view
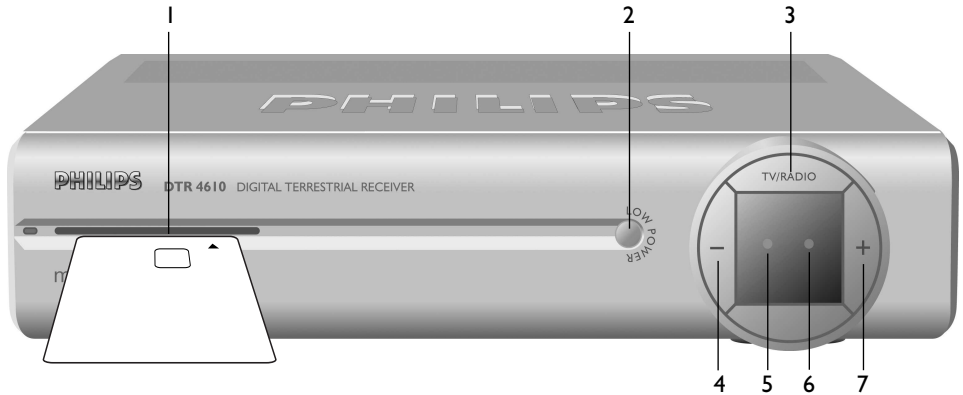
1   **Smartcard slot**
2   **LOW POWER button:**   Switch the receiver on or to "low power".
3   **TV/RADIO button:**   Toggle between digital TV and digital radio.
4   **"-" button:**   Channel down.
5   **Bicolour LED:**   Display receiver status (see status indicator table).
6   **Red LED**   Display receiver status (see status indicator table).
        Blink at remote control command reception.
7   **"+" button:**   Channel up.

STATUS INDICATOR TABLE

Mode Indicator	Bicolour LED	Red LED
Low power		red
Standby	orange	
TV/Radio mode	green	
Download in progress		Blinking red
Timer active when receiver on	green	red
Timer active when receiver in standby	orange	red

Note: if the red LED is blinking while your receiver is in "Standby", it indicates that an update of your receiver software is taking place. <u>Do not interrupt this operation</u>. Wait for the green LED to light up, indicating successful update, and then continue as normal.

⚠ *Your receiver, as any electronic equipment, consumes power. In order to reduce power consumption, please switch your receiver to either Standby or "Low Power" whenever you are not using it. For maximum energy saving we recommend you switch off the receiver by unplugging it from the mains if you are not using it **for a long time**.*

3.2 Rear view
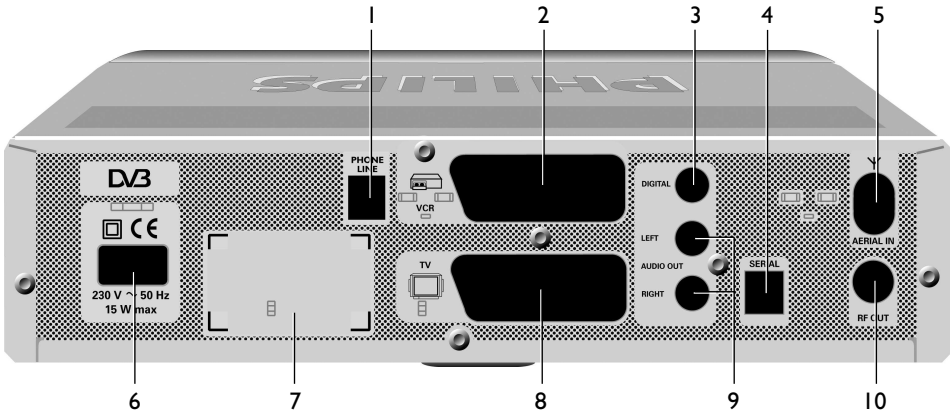
1 Telephone Line* **(3)**		To connect the supplied telephone cord to be connected to your telephone line using the appropriate adapter (adapter not supplied).
2 VCR SCART* **(1)**		To connect a SCART lead to be connected to the SCART socket input (EXT1) of your VCR or DVD Recorder.
3 Digital Audio*		To connect to one of the digital audio input of your HiFi /audio receiver system.
4 Serial*		Data interface used during servicing.
5 Aerial In*		To connect the plug of your aerial cable.
6 230V~50Hz 15W max**		To connect the supplied mains cord to be connected to the power socket.
7 Label		Type and serial number of your receiver.
8 TV SCART* **(1)(2)**		To connect the supplied SCART lead to be connected to the SCART socket input of your TV set.
9 L/R Audio Output*		To connect to the Left/Right audio Cinch inputs of your HIFI/audio receiver system.
10 RF Out*		To connect the supplied RF coaxial cable to be connected to the aerial input socket of your TV or VCR.

* *Safety Extra Low Voltage*
** *Hazardous Voltage*
*** *Telecommunication Network Voltage 3*

(1) SCART is also called Euroconnector or Peritel.
(2) The supplied SCART lead is suited for RGB format, which allows the best picture quality. Consult the user manual of your TV set to select its RGB capable SCART socket input.
(3) This equipment has been approved pursuant to Commission Decision 99/303/EC for pan-European connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided for in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, you should contact your equipment supplier in the first instance.

4 Remote Control

0-9 number keys
- In viewing mode: select channels.
- In menu: directly select a menu item or set a setting.
- In standby: wake up the receiver.

INFO
Switch between channel banner, extended info page one and then subsequent pages, and normal viewing.

EXIT
Return to normal viewing. If EXIT is pressed and held for at least 2 seconds, the current application is closed and normal viewing is resumed. The "Autostart" status is then switched off temporarily until the receiver tunes to this channel.

⊿ +/-
Increase/Decrease the volume level.

MUTE ⫫
Mute the sound on your TV or receiver.

RED, GREEN, YELLOW, BLUE
Contextual keys used in MHP applications.

TV/STB
Toggle between watching terrestrial digital TV via your receiver and standard analogue TV via your TV set.

I-II
Open the Options menu to momentarily change the soundtrack, subtitles, teletext, or display format setting.

MENU
Open/Close the Menu.

REC
Open the Setting a Timer screen.
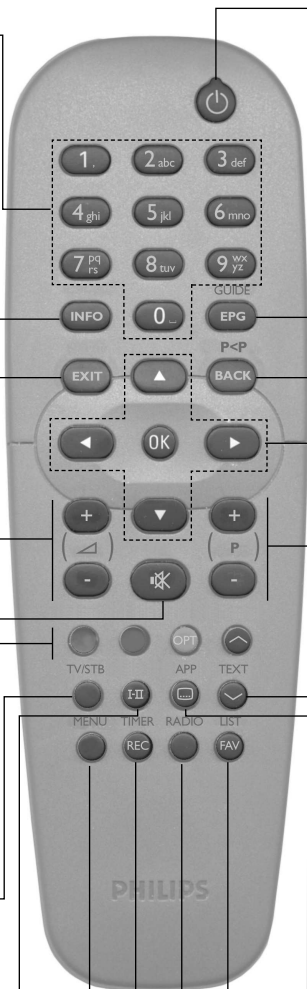
Standby ⏻
Switch your receiver into the standby mode.

EPG
Open/Close the Programme Guide.

BACK
- In viewing mode: return to the previously tuned channel.
- In menu mode: return to the previous screen.

▲ ▼
- Switch the Channel Banner in the browsing mode.
- Scroll up/down in a menu or channel list.
◄ ►
In Channel Banner: switch between the current and next programme.

OK
Confirm your choice.

P+/P-
- In viewing mode: tune the next/previous channel within the current channel list.
- In channel lists: tune the next/previous channel.
- In standby: wake up the receiver.

TEXT
Contextual key used in MHP applications.

▭/APP
Launch MHP applications in manual mode.

FAV
Open/Close the current channel list.

RADIO
- In viewing mode: toggle between TV and Radio.
- In standby: wake up the receiver.

5 Day to Day operation

5.1 Turn on your receiver or switch to low power

Your receiver is in "low power", as indicated by the left-hand LED lit in red. The only way to turn it on is to press the **LOW POWER** button on the front panel.
While watching digital TV or listening to digital radio, press the **LOW POWER** button on the front panel to switch your receiver to "low power".

5.2 Wake up your receiver or switch to standby

While watching digital TV or listening to digital radio, press the standby key of the remote control to switch your receiver to standby.
While your receiver is in standby, to wake it up:
- Either press the **P+**, **P-**, **RADIO** or any number key of the remote control.
- Or press the **-/+** or **TV/RADIO** button on the front panel.

5.3 Change channel

When you are watching digital TV or listening to digital radio, there are different ways of changing channel.

5.3.1 Using number keys

Enter the desired channel number using number keys.

5.3.2 Using P+ and P-

Press **P+** to select the next channel in the current list, or **P-** to select the previous channel in the current list.

TV Channel List

5.3.3 Using the channel list(s)
- Press the **FAV** key to open the current channel list.
- Scroll to the desired channel, and then press **OK** to select it.
- Alternatively, press **FAV**, and then use the ◄ or ► to enable another channel list to choose from.

5.3.4 Using BACK (last channel recall)

Press the **BACK** key to return to the previously selected channel.

5.4 Selecting digital TV or digital Radio

To switch between digital TV and digital Radio, press the RADIO key.

5.5 Channel Banner

Channel Number
Current Time & Date
Start Time
Icons
End Time
Progress Bar
Channel Name
Channel Number
Program Name

Channel Banner Icons

(i)	This icon informs that some program information is available for the program displayed in **Channel Banner**.
🔒	This icon informs that the current channel is locked.
🕪	This icon informs that a viewing reminder has been set for a particular program.
📼	This icon informs that a recording reminder has been set for a particular program.
I-II	This icon informs that a program with more than one soundtrack is broadcast.
APP	This icon informs you that pressing APP opens the application menu.
▶◁	This icon informs you that the program is broadcast with AC3/Dolby Digital sound.
👥	This icon informs you that the particular program is parentally locked.
mhp	This symbol informs that you may launch external applications by pressing **OK**.
☰	This icon informs that teletext is broadcast on the currently tuned channel.
⊟	This icon informs that you may select subtitles for the current program.
👂	This icon informs that you may select subtitles intended for deaf or hard-of-hearing viewers for the current program.
▣	This icon informs you that the current channel is scrambled.

10 **DAY-TO-DAY OPERATION**
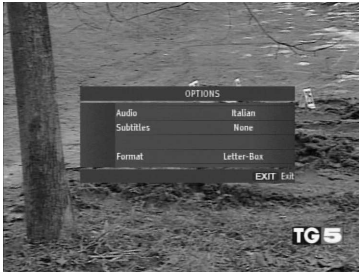
Option Menu

Interactive Applications Icon
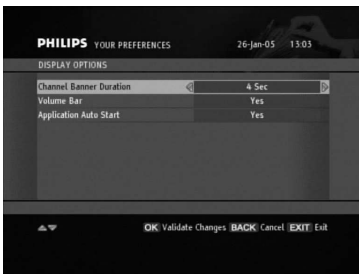
Display Option Screen

5.6 Changing the current programme options

Press the I-II key to access the **Options** menu.

This menu is used to change the **Audio** language and **Subtitles** language for the current programme.

From the **Options** menu, you may also change the **Format** of the display. This setting applies to all programmes and channels, as if set from the menu.

5.7 How to Run MHP Interactive Applications

Your receiver supports downloading and running **MHP** interactive applications. Some applications are run automatically on tuning to a respective channel. Other applications need to be launched manually.

If you tune to a channel on which interactive applications are broadcast, you will see the ⸤ mhp ⸥ icon on the **Channel Banner**. This icon is displayed alternately with the ⸤ APP ⸥ icon if applications are run automatically or with the ⸤ OK ⸥ icon otherwise.

In case of manual applications pressing **APP** brings up the **Applications** window allowing you to selected the application you want to run. Once you have selected the application, press **OK**. However, if you are not interested in running interactive applications, press **EXIT** to remove the **Applications** window from the screen.
Once the application is running follow the instruction given by the application played on screen.
To quit the interactive application, press and hold the **EXIT** key for at least 2 seconds. You can also quit the application by following the on-screen descriptions brought to you by the application itself or tuning to a different channel by pressing **P+**/ **P-**.

Please note that if you do not want any interactive applications to be run automatically, set the **Application AutoSTART** option in the **Display Options** screen to **NO**.

6   Main Menu

Main Menu

1-Timer Manager

2-Your Preferences — **Display Options** | **Language Options**

3-Parental Control — **Security Settings** | **Change PIN Code**

4-Channel Manager

5-Data Channels

6-Installation — **Location** | **Settings** | **Channel Installation** | **Signal Meter** | **receiver Status** | **Factory Reset**

Settings:
- **TV Settings**
- **System Settings**
- **Modem Settings**
- **Modem Connection**
- **Update Settings**

Channel Installation:
- **Installation of New Channels**
- **Re-install all Channels**

receiver Status:
- **System Information**
- **Manual receiver Update**

7-Help — **Parental Control** | **Use of Timers** | **MHP Applications** | **Receiver Update**

8-Pay Per View

6.1 Menu navigation

Your receiver offers a menu system that allows you to set the way many of the features of your receiver operate.

MENU

To access the **Main Menu**, press the **MENU** key.

▲ ▼ , OK and **number keys**

The **Main Menu** consists of 8 submenus. To evoke one of the submenus, highlight its name using the ▲ or ▼ keys, and then press **OK**. You may also press the number key to directly access the respective menu item.

◄ ► and **number keys**

To set settings in any screen, use either the ◄ or ► key to select from predefined values, or number keys to enter figures, dates, times, etc.

OK, BACK and **EXIT**

To quit a menu and save changes, press **OK**.
Alternatively, press **BACK** to go back one level in the menu system without saving changes. To exit the menu system without saving changes, press **MENU** or **EXIT**.

6.2 Channel manager

Channel Manager is used to manage the "User" channel list.

The Delete Channels feature is used to remove channels from the "User" channel list.
The Lock Channels feature is used to protect access to certain channels of the "User " list using your 4-digit PIN code.
The Order Channels feature is used to move channels within the "User" channel list.
The Add Channels feature is used to add channels from the "System" channel list to the "User" channel list.
The Restore Channel List feature is used to reset the "User" channel list to the "System" channel list.
- Select the **Mode**: **TV** or **Radio**.
- Select the **Modify** feature you want to use: Delete/Lock/Order/Add channels and Restore Channel List.
- Press **OK** to proceed. If you have chosen to restore your channel list, you are then prompted to confirm.

Locking a Channel

Managing channels
- Scroll to the channel you want to delete/lock/move/add, and then press **OK**.
- To delete or lock the selected channel, press **OK**. An icon appears at the end of the line. If you have chosen to delete this channel, you then are prompted to confirm.
- To move the selected channel, move to the desired position, and then press **OK**.
- To add the selected channel to the "User" list, press **OK**.

MAIN MENU 13

Timer Manager

Setting a Timer

Modifying a Timer

6.3 Timer manager

Timer Manager lists all the existing timers. From this screen, you can set, modify, and delete timers.

> ⚠️ *To be able to record a digital programme using a VCR or DVD recorder, you must set a timer on your receiver and also enable recording on the recorder.*

Setting a timer
- Scroll to an empty line of the list and press **OK** to add a timer.
- Set the timer settings:
  • **Timer type:** Recording or Viewing
  • **Mode:** TV or Radio
  • **Channel Number** and **Name**
  • **Date, Start time,** and **End time**
  • **Periodicity:** Once, Daily, or Weekly.
- Press **OK** to confirm.

Modifying a timer
- Highlight the timer to be modified from the timer list, and then press **OK**.
- Select **Modify Timer** and press **OK**.
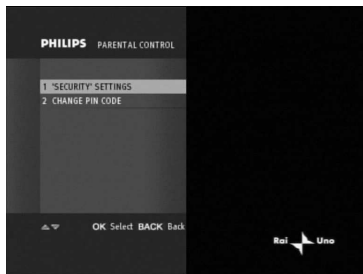- Edit the timer settings, and then press **OK**.

Deleting Timers/Reminders
- Highlight the timer to be deleted from the timer list, and then press **OK**.
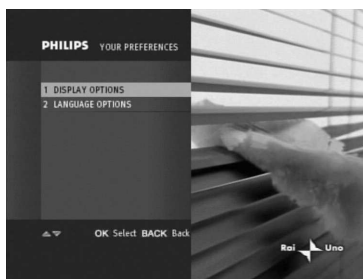- Select **Modify Timer** and press **OK** to confirm deletion.

> ⚠️ *Please note that when you set a recording, it is protected from being interrupted. To cancel a running recording, press the following key sequence: **TIMER** then **0**.*

For parents Submenu

6.4   Parental Control

Parental Control is used to set PIN code protection on some menus, locked channels, and programmes not suitable for certain audiences.

6.4.1   'Security' Settings

This item is used to enable the protection features mentioned above and specify a parental level to protect access to programmes according to their maturity level.

- Set the settings:
  - **Receiver Lock:** select **Yes** to enable protection features
  - **Parental Level**: **PIN code** protection is automatically enabled for programmes which maturity level is higher than the parental level you set.

Parental Level

6.4.2   Change your PIN code

This item is used to change your personal 4-digit code, called **PIN code**.

Initially, your **PIN code** is assigned the value 1234.

To change your **PIN code**:
- Enter the current value.
- Then enter the new value of your choice.
- Enter the new value again to confirm.

6.5   Data channels

Please note that only **MHP** applications can be run.

6.6   Your preferences

Your Preferences is used to set on-screen display and language options of your choice.

6.6.1   Display options

This item is used to set on-screen display settings, including the channel banner settings.
- Set the **Channel Banner Duration** of your choice.
- Set **Volume bar** to **Yes** to include the volume indicator in the on-screen display.
- Set **Application Auto Start** to **Yes** to automatically launch the available **MHP** applications (recommended setting).

Your Preferences Submenu

English

MAIN MENU 15
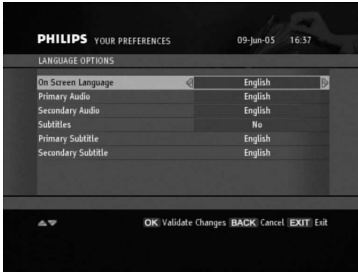
Language Options Screen

Installation Submenu

Settings Submenu

TV Settings Screen

6.6.2   Language options

This item is used to define the on-screen display language, audio languages, and subtitle languages of your choice.

6.7   Installation

Installation is used to configure your system, search for channels, and manage your receiver status.

When the decoder is locked, access to the Installation menu is protected by PIN code.

6.7.1   Location

This item is used to set the **Country** and **Time Zone** so that the time displayed matches your actual local time. Changing the country will initiate a channel search and you will lose your current channel list.

6.7.2   Settings

Settings is used to match your receiver settings to your TV and recorder.

TV Settings:

refer to the table below to set **TV Screen Format** and **Display Format**.

TV Screen Format / Displayformat	TV screen format = 4:3 broadcast format = 16:9	TV screen format = 16:9 broadcast format = 4:3
Letter-box	**full picture with black bars** at the top and bottom	**full picture with black bars** on the left and right
Pan-Scan	**picture cut-off** on the left and right	**picture cut-off** at the top and bottom
Full screen	**full picture** squeezed to fit	**full picture** squeezed to fit

System Settings Screen

System settings:
- Video standard:
  PAL or SECAM, pre-configured according to the selected country.
- TV SCART Output, VCR SCART Output:
  to get the best picture quality, set this option to RGB.
- Easy Recording/Type of VCR/DVD-R control: refer to chapter Easy Recording.
- Default Volume Level:
  volume level at wake-up from standby.

Modem Settings:
modem configuration is generally handled by the MHP applications.

Modem Connection:
follow the instructions displayed on-screen to check your modem connection.

Update Settings:
set **Automatic Update** to **Yes** to automatically initiate the update procedure when available. Otherwise you will be prompted to initiate the procedure.

Note that your decoder must be in running mode in order to check for updates.

Channel Searching

6.7.3 Channel Search

Channel Search is used to either install new channels or re-install all channels:
- Either select **Installation of New Channels** to update your channel list by adding newly available channels.
- Or select **Re-install all channels:** your channel list will be replaced by a new one.
- Press **OK** to launch the channel search. You may interrupt this procedure by pressing **BACK**.

MAIN MENU 17

Signal Meter

Receiver Status Submenu

Factory Reset

6.7.4　Signal meter

Signal Meter is used to display the strength and quality of the signal broadcast at the specified frequency in order to check your antenna connection and setup.

6.7.5　Receiver Status

System Information provides information about the system, loader, and smart card.

Besides, the **Manual Receiver Update** item is used to check whether new software is available for your receiver. If available, press **OK** to initiate the update. Do not interrupt this operation once started.

6.7.6　Factory Reset

Select the desired option in the **Restore Factory Settings** window and press **OK**. Restoring the factory settings of the receiver allows you to restart the first-time installation process. As a result, your channel list is replaced by a new one

6.8　Help

This submenu is used to provide information on how to use your receiver and set the various settings.

6.9　Pay Per View

Pay per view is used to provide information on your smart card, including information your access rights for Mediaset and LA7 **Pay Per View** channels.

7   Easy Recording

The **Easy Recording** feature allows you to perform recordings without the necessity to program your video recorder (VCR or DVD recorder). When you set a recording reminder or timer from the **Channel Banner** or **Timer Manager**, the VCR starts/ends recording at the correct time. Please note, however, that you may only use the **Easy Recording** feature provided that your recorder supports it.

- First of all, consult User Manual of your recorder equipment to check if it supports Easy Recording. Please note that most Philips VCR/DVD recorders support one of the two Easy Recording options: either **Prepare Record (to be checked first)** or **Record Link**.
- Also, both your TV and VCR shall be equipped with two SCART sockets.

  If your equipment satisfies above two conditions, connect your receivers as shown in the Connection diagram below.

  Then, select the **System Settings** item from the **Settings** submenu, enable the **Easy Recording** feature by setting its option to YES, and assign to the **Recording Type** an appropriate value: either **Prepare Record** or **Record Link**. You might have to test both settings to find out the one applicable for your recorder.
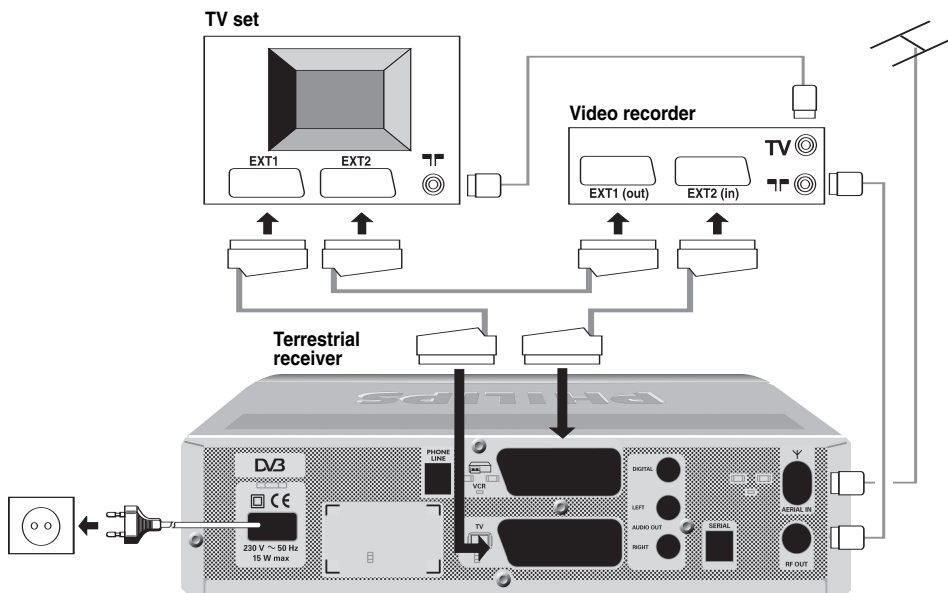
Assuming the settings of your receiver and recorder (refer to your VCR or DVD recorder user manual) are done, to perform a recording you shall:
- Program a timer with your receiver (refer to section 6.3)
- Put your recorder in the appropriate status to be controlled by your receiver (refer to the VCR or DVD recorder user manual).

At timer occurrence your recorder shall start and stop recording automatically.

*Note: While the recording is in progress, your receiver is protected from inadvertent action to disrupt the recording. To cancel the running recording, press **EXIT**. This brings up a small window prompting you for confirmation. To cancel the recording, press **OK**.*

8 Troubleshooting guide

Check the guide below for a possible cause of the problem you are experiencing.

The most common problems that arise are related to cable connections. Make sure that your receiver is properly connected.

Symptom	Remedy
Nothing lights up on your receiver front panel.	Check that the mains power cord is correctly connected. Disconnect this cord, and then reconnect it to ensure it is in place. Check that power is available at the wall socket.
Your remote control fails to operate your receiver.	Make sure your receiver is in operating mode. Make sure that you are pointing your remote control at the receiver front panel. Check the batteries in your remote control. The front panel LEDs are lit respectively in red and green: a recording is running and your receiver is locked on the channel you are recording. Press successively TIMER then 0 to recover full control of your receiver.
There is no sound/picture but the front panel orange LED is on.	Your receiver is in standby. Press **P+/P-** on your remote control to wake up your receiver. Alternatively, press the +/- button on the receiver front panel.
There is no sound/picture. However, front panel display is correct.	You are watching ordinary TV via your TV set. Press the **TV/STB** remote control button to watch digital TV via your receiver. Make sure that the SCART connections are correct. Connections are correct but the TV set is NOT switched to external AV source. Press the **TV/STB** remote control button twice; if the problem is not fixed refer to the user manual of your TV set.
Main Menu can be displayed but you cannot select channels.	Your receiver has not been properly configured. Perform the **Channel Search** procedure (from Installation submenu). Optionally return to factory setting.
Main Menu and **Channel Banner** can be displayed, but there is no reception (black screen).	Your aerial is not receiving the signal. Check the installation, and the aerial positioning and connection. Also, check signal quality. Signal is too weak. Check the installation, and the aerial positioning and connection. This effect may also be due to severe weather conditions.
The picture is not sharp and text is difficult to read.	The TV SCART output video format is not set to RGB. Change the TV SCART setting to RGB from the System Settings item of the Installation submenu. The TV SCART lead is not connected to the RGB?capable SCART socket of your TV set (refer to TV set user manual for proper connection). The SCART lead for TV connection is not RGB?capable (not fully wired). Use the SCART cable supplied with your receiver for the connection to the TV set.
Intermittent reception ("mosaic" effect or "frozen" image).	You may have defective cable links. Check all connections and cables. Poor signal due to the incorrect positioning of the aerial. Reorient the aerial and fasten it securely.
You have forgotten your PIN code.	You have the possibility to reset your PIN code to its default value (1234). While watching digital TV or listening to digital radio, press MENU, then press the red colour key, and then type in the Master PIN Code (00799700) in quick succession.Please keep this code secret to prevent your children from using it.

9 Technical Specifications

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

Video Decoding

- MPEG-2 DVB compliant up to MP@ ML (SD)
- Video bit rate: up to 15 Mbit /sec
- Video format: 4:3 (letter box or Pan & scan 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
- Program editing for personalised installation (delete, add, move)

Ease of use

- Automatic program list update
- Direct access TV & Radio modes
- Full remote controlled
- Automatic recording via:
  - Timer programming by tagging in banner
  - Easy recording for Philips VCR and DVD+RW.
    - Prepare Record
    - Record Link
- Now & Next program in banner
- EPG list per channel based on EIT schedule

Operation/Features

- Receiver compatible with services based on MHP
- 1000 presets
- Free to air reception
- DVB Subtitles
- Parental lock with PIN code
- Channel lock with PIN code
- Menu controlled installation and operation using On Screen Display
- 8 event VCR timer / Reminder
- Automatic VCR play back: Audio L/R + CVBS or RGB / Fast blanking
- Full range RF loop-through
- Software update via over the air download
- PCM Digital audio out

Application System Resources

Processor clock speed	180 MHz
SDRAM - CPU/Video-Graphics	40 MB
Flash memory	8 MB
EEPROM	16 kB
Graphics resolution	16 bits

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
- Loop-through frequency range (MHz): 47 - 862 MHz

De-scrambling

Type:	DVB
Implementation:	Embedded
Smart card reader:	1 for CA
CA system for pay-TV:	Nagra & Irdeto for Italy

Connections

TV SCART:
Output: CVBS or RGB / Fast blanking volume controlled audio L/R, slow blanking outputs

VCR SCART
- Input: CVBS or RGB / Fast blanking, slow blanking , audio L/R
- Output: CVBS , audio L/R, slow blanking during timer if "Prepare Record" mode is activated

Audio CINCH
- Analog audio output: L / R
- Digital audio output: PCM

Serial interface:
- Type RJ 9

Modem

- Type V90
- interface RJ 11

Smart card reader
- Type: ISO 7816

Accessories

- Remote control: RC 19137008/01
- 1 Scart cable
- User manual
- Worldwide Guarantee booklet
- Batteries: 2 x 1.5V type AA/R06
- RF cable (DTR4610 only)
- Telephone cord (DTR4610 only)
- Mains cord

Miscellaneous

Temperature range (°C)
- Operating +5°C to 45°C
- Storage -10°C to +70°C

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

Consumption
- Power: < 10W
- Standby: < 6 W
- Low power < 1 W

Weight
- Product 2 kg
- Including packaging 2.5 kg

Dimensions:
- Product 260 x 225 x 60 mm
- Packaging 365 x 275 x 90 mm

Multi-language

Menu
- English, Italian, French, German.

User manual
- English, Italian.

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

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