

DCR 9000

DE Benutzerhandbuch 2

Bei Problemen, die nicht auf die Premiere Programme oder die Premiere Smartcard, sondern auf den Receiver zurückzuführen sind, wenden Sie sich an das Philips Call Centre unter 0180/500 75 31* (Deutschland) oder 0820 400 039* (Österreich).

*Täglich von 8 bis 23 Uhr erreichbar - 0,12 Euros/Min

EN User manual 50

For problems that are not related to Premiere programmes or the Premiere smart card, but rather due to your receiver, call the Philips call center on 0180/500 75 31* for Germany or 0820 400 039* for Austria.

*open 7 days from 08.00 to 23.00 - 0.12 Euros/min



PHILIPS

Foreword

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Dear Valued Customer,

Thank you for choosing our HDTV receiver. This User Manual will help you get the best out of the extensive and fascinating functions of your new receiver.

With your new HDTV receiver [receiver type], the whole world of television is open to you for top-quality viewing! You are now ready for the future of television! HDTV is a new way to watch television - a crystal clear, high-definition picture with sharp colours. Premiere offers you Hollywood blockbusters, major sports events and documentaries of the highest quality. Television now becomes an incredible viewing experience.

Your new digital receiver [receiver type] is of course designed to receive and use Premiere services. It is for those who expect more from television. A Premiere subscription means exclusive programs, a wide selection, comprehensive service and cutting edge technology.

With Premiere you will experience innovations in TV before anyone else. Premiere is the first, and up to now the only, German TV channel with programmes 24-hours a day in high definition.

Premier HD channels offer top Premiere programs in unheard-of quality.

- Enjoy the best current films with picture and sound quality just like in the movie theatre - and in the original wide-screen format.
- See the world as it really is with the Premiere HD special offer.
- Experience the best in sports in top quality and see the best football, basketball and ice hockey players and other sports stars.

Premiere offers you more TV enjoyment, more variety and more comfort.

- PREMIERE FILM offers great entertainment to suit all tastes with a selection of 100 films a day with no commercial interruption. DISNEY CHANNEL provides great family entertainment.
- PREMIERE SPORT & PREMIERE FUSSBALL LIVE offer best in sports. You will never miss another goal.
- PREMIERE THEMA includes a wide variety of theme channels for all your moods and interests with documentaries, interactive advice programmes, children's programmes, music channels and adult channels, as well as the best programmes for fans of sci-fi, thrillers, action and classic movies.
- On PREMIERE DIREKT, you can easily book the best current films, exclusive sports events, special events and adult television for whatever time you want and enjoy them at home.

When installing Premiere, please observe the installation instructions that come with the Premiere smart card. If you haven't got a Premiere smart card yet, you can find further information on current Premiere offers on:

0180/ 551 00 00* - www.premiere.de
for Germany




01/ 49166 200 - www.premiere.at
for Austria

or at specific dealers.

We wish you great viewing with your Philips [receiver type]!

Your Philips Team.

*0.12 euros/min on the Deutsche Telekom Ltd. fixed network

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Unpacking

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When unpacking your receiver, please make sure the following accessories are included:



- 1 -

Universal remote control with batteries



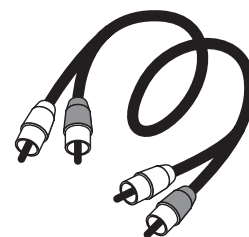
2 - HDMI cable



3 - RF coaxial cable



4 - Mains cord



5 - Audio cable

The package also includes the following documents:

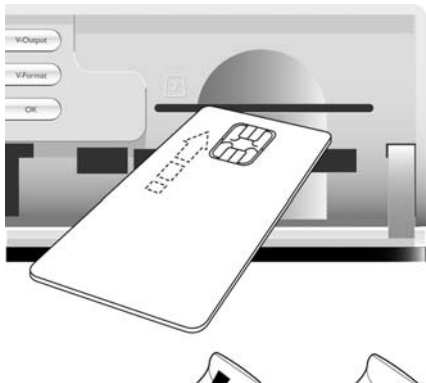
- User manual for receiver
- Quick start guide
- Philips World-Wide Guarantee



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

1 Quick installation

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Please read the safety and environmental instructions before connecting your receiver.

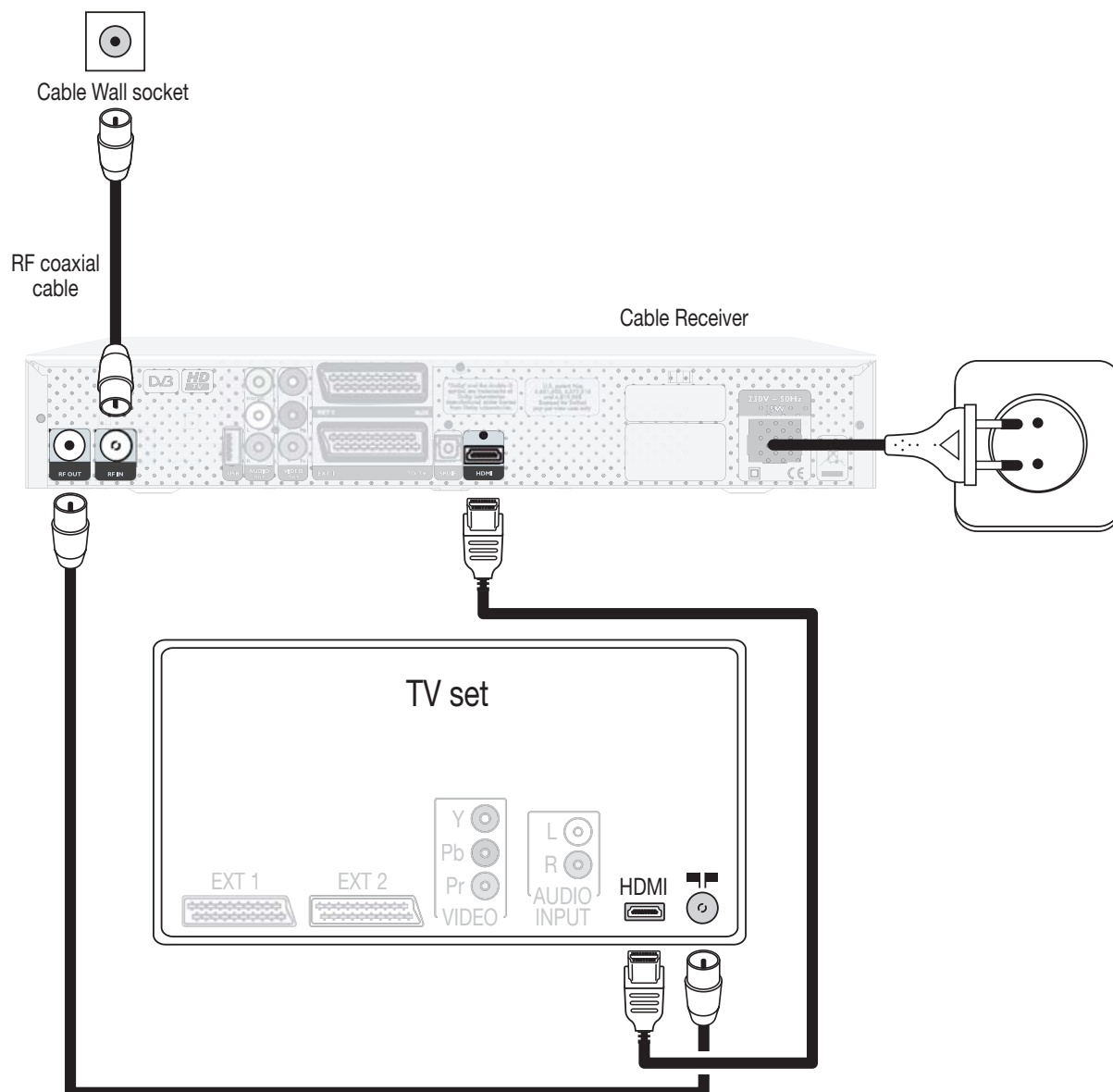
Your TV set is fitted with an HDMI socket. If not, proceed to chapter 8.

- Disconnect your TV set from the mains.
- Connect your receiver as shown below. Do not connect your receiver to the mains now.

When connected as described below, volume control is performed via your TV set.

- Insert your smart card in your receiver with the contacts facing up.

Smart card insertion is required for Pay-TV subscribers only.



- Insert the two batteries supplied in your remote control.



Batteries are removable from the remote using common household tools. 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 battery collection system.

- Switch on your TV set and select the appropriate **HDMI** input (refer to your TV set user manual).
- Now plug the receiver's power supply cord into the mains. The receiver display indicates **BOOTING**, then **WELCOME**.
- Press **V-Output** once. The receiver display should indicate **HDMI DETECTED**.

If **TV INPUT** is displayed instead, proceed to chapter 8.

- Check that the welcome screen displays on the TV screen.

If no picture is displayed or the picture quality is poor, refer to section Troubleshooting.

- Press **P+** then **P-**. Wait for a few seconds for the **First installation** screen to appear.
- Select your favourite language.
- Check for adequate signal strength and quality.
- Press **OK** to start searching for channels. During the search, a bargraph indicates the channel search progress. This may take some time. It is to ensure the receiver will not miss out on channels.

Once the scan has been successfully completed, a completion message is displayed.

- Press **OK**.

A new screen appears, with a message indicating that a search for new, upgraded software is in progress:

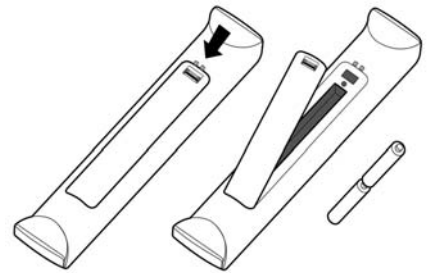
- Either wait for software detection, and then proceed as indicated on screen. It is recommended to accept software so as to keep your receiver up-to-date.
- Or press **EXIT** to stop searching for new software.

At the end of first installation, your receiver tunes to the first channel in the main TV list.

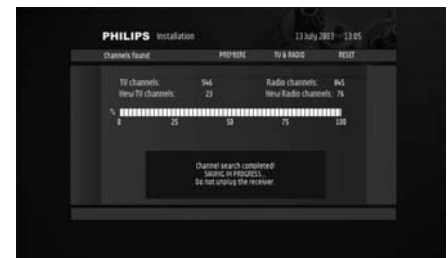
For detailed information on first installation, see chapter 8.

For detailed information on other connections, refer to the on-screen help, either by pressing the yellow colour key or via the menu by selecting the Help item. Alternatively, see chapter 7.

Your remote control is set to perform volume control through a Philips TV set. If you have a TV set other than Philips, refer to paragraph 15.3 to adapt the brand setting of your remote control to your TV set.








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2 Meaning of symbols

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	Important information: Must be read and understood.
	<p>Your product has been designed and manufactured with high quality materials and components, which can be recycled and reused.</p> <p>When this crossed-out wheeled bin symbol is attached to a product or its packaging, it means the product is covered by European Directive 2002/96/EC.</p> <p>Please inform yourself about the local separate collection process for electronic products.</p> <p>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.</p>
	<p>The “Material recyclability symbol” affixed on package cardboard and user manual means these parts are recyclable.</p> <p>So do not dispose of them with your normal household waste.</p>
	<p>The “Material recyclability symbol” affixed on plastic packaging parts means these parts are recyclable.</p> <p>So do not dispose of them with your normal household waste.</p>
	<p>The “Green Dot” affixed on cardboard means PHILIPS pays a financial duty to the “Avoidance and Recovery of Packaging Waste” organization.</p>

3 Safety instructions

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Your receiver has been manufactured to meet the appropriate safety standards, but the instructions below must 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 your dealer.
- The receiver does not contain any user-serviceable parts. Do not attempt to open it. All maintenance work must be carried out by qualified services centres.
- 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 live.
- It is recommended to unplug the receiver from the mains during lightning storms.
- If the power cord is damaged, it must be replaced. Always refer to qualified services centres.
- To prevent fire or shock hazard, do not expose the receiver 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 heat sources such as radiators, stoves or other apparatus that produce heat. Protect it from direct sunlight.
- When installing the receiver, ensure there is a gap of approximately 2 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 shall 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 and aerosol cleaners.




Your receiver, as any electronic equipment, consumes power. In order to reduce power consumption, please switch your receiver to "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, e.g. during holidays.

4 Product description

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4.1 Front panel









- | | | |
|---|--|--|
| 1 |  button with indicator..... | Standby (short key press)
"Low Power" (2-second key press) - indicator lit in red
Reset (5-second key press) |
| 2 | P-..... | Channel down
Wake up the receiver from stand-by or "low power". |
| 3 | P+..... | Channel up
Wake up the receiver from stand-by or "low power". |
| 4 | TV/RADIO..... | Toggle between digital TV and digital radio.
Wake up the receiver from stand-by or "low power". |
| 5 | HDTV..... | Indicate reception of HD programmes when lit in blue. |
| 6 | Display..... | Front panel display. See paragraph 4.2. |

Open the door located on the right-hand side of the receiver front panel to access the following:


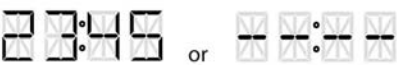




- | | | |
|----|-------------------------------|---|
| 7 | V-Output..... | Switch between output formats (HDMI, YPbPr, or EXT1). |
| 8 | V-Format..... | Select picture resolution (Auto, 1080i, 720p, or 576p). |
| 9 | OK..... | Confirm selection. |
| 10 | Smart card slot (slot 1)..... | See chapter 5. |

4.2 Front panel display

4.2.1 Pictograms

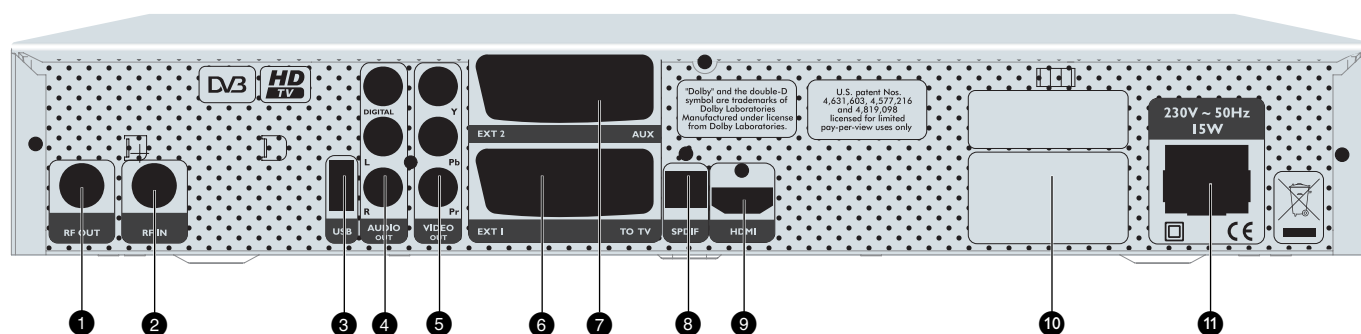
	Represents progression of channel scan or volume change.
	Lit when a recording is running.
	Lit during storage of data at the end of a channel scan.
	Lit when a smart card is required.
	Blinks when receiving a remote control command.
	Lit when at least one recording or reminder has been programmed.

4.2.2 Description of segment display messages

	Receiver initializing. Please wait.
	Receiver in stand-by
	Receiver tuned on a digital TV channel, e.g. Disney Channel.
	Receiver tuned on a digital Radio channel
	Recording in progress. To cancel a recording which is in progress press TIMER then 0 .
	The device connected to the EXT2 SCART of your receiver is playing back a recording. Stop playback to return to digital channels.

4.3 Rear panel

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- | | | |
|----|-----------------------|--|
| 1 | RF OUT (*) | RF output used to connect your receiver to a VCR/TV set to watch analogue channels only, or to connect another receiver |
| 2 | RF IN (*) | RF input used to connect the RF coaxial cable from the wall socket |
| 3 | USB (*) | For future use |
| 4 | L/R AUDIO OUT (*) | Left/Right analogue audio outputs to connect your receiver to your TV left/right analogue inputs |
| | DIGITAL AUDIO OUT (*) | Digital audio output to connect your receiver to the digital coaxial input of your digital audio equipment |
| 5 | YPbPr VIDEO OUT (*) | Outputs to connect your receiver to the YPbPr or component inputs of your TV set or video projector ⁽²⁾ |
| 6 | EXT1/TO TV (*) | SCART ⁽¹⁾ output used to connect your TV set or video projector ⁽²⁾ |
| 7 | EXT2/AUX (*) | SCART ⁽¹⁾ output to connect your video recorder or DVD player |
| 8 | SPDIF (*) | Digital audio output to connect your receiver to the digital optical input of your digital audio equipment using an optical cable (not supplied) |
| 9 | HDMI (*) | HDMI socket used to connect your TV set HDMI input |
| 10 | | Label showing the type and serial number of the receiver |
| 11 | 230V~50Hz 15W max(**) | Socket to connect the mains cord |

* Safety Extra Low Voltage

** Hazardous Voltage

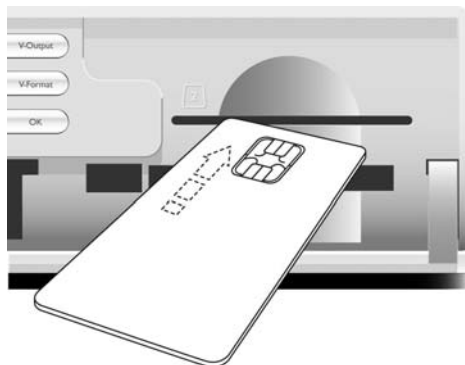
⁽¹⁾ SCART is also called Euroconnector or Péritel.

⁽²⁾ If you consider using a video projector, refer to its user manual for the best video format to feed it. If necessary, refer to paragraph 13.5.2 to properly set the EXT1/EXT2 SCART Output.

5 Inserting your Smartcard

You will be delivered a smart card when taking up a subscription.

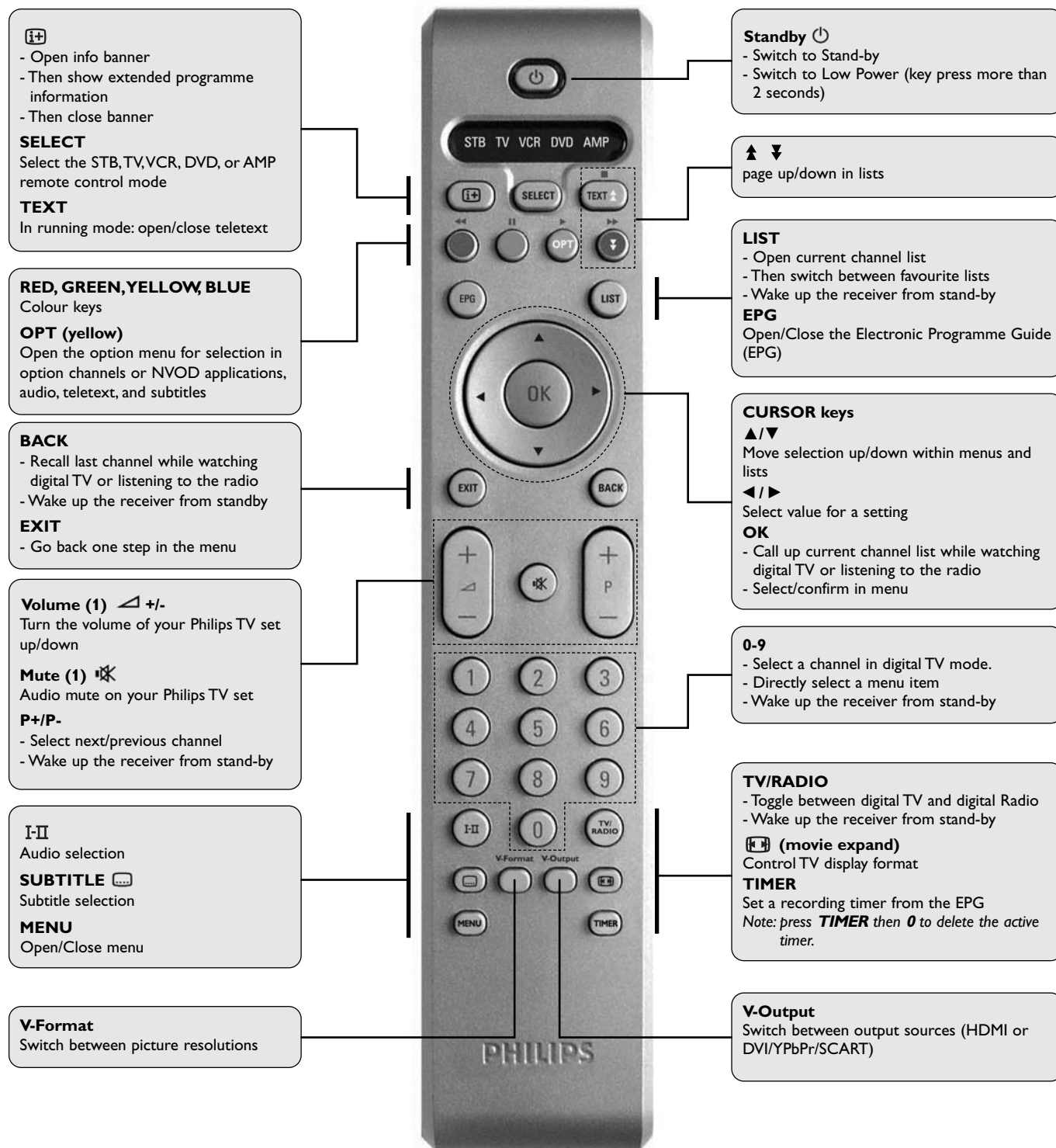
Insert your smart card in the direction indicated by the arrow with the golden chip facing up, and push it as far as it will go into the upper slot.



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6 Using your remote control when the STB mode is selected

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(1) If you have a TV set other than Philips, refer to paragraph 15.3 to change the brand setting of your remote control.

Infrared interference on external devices

To avoid bad remote control reception, place your external devices out of sight of the ambient lights of your TV set.

7 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 recorder) from the mains. Do not connect your digital receiver to the mains supply now.
- Refer to the relevant connection diagram to incorporate your digital receiver into your existing audio/video setup.

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7.1 Connections

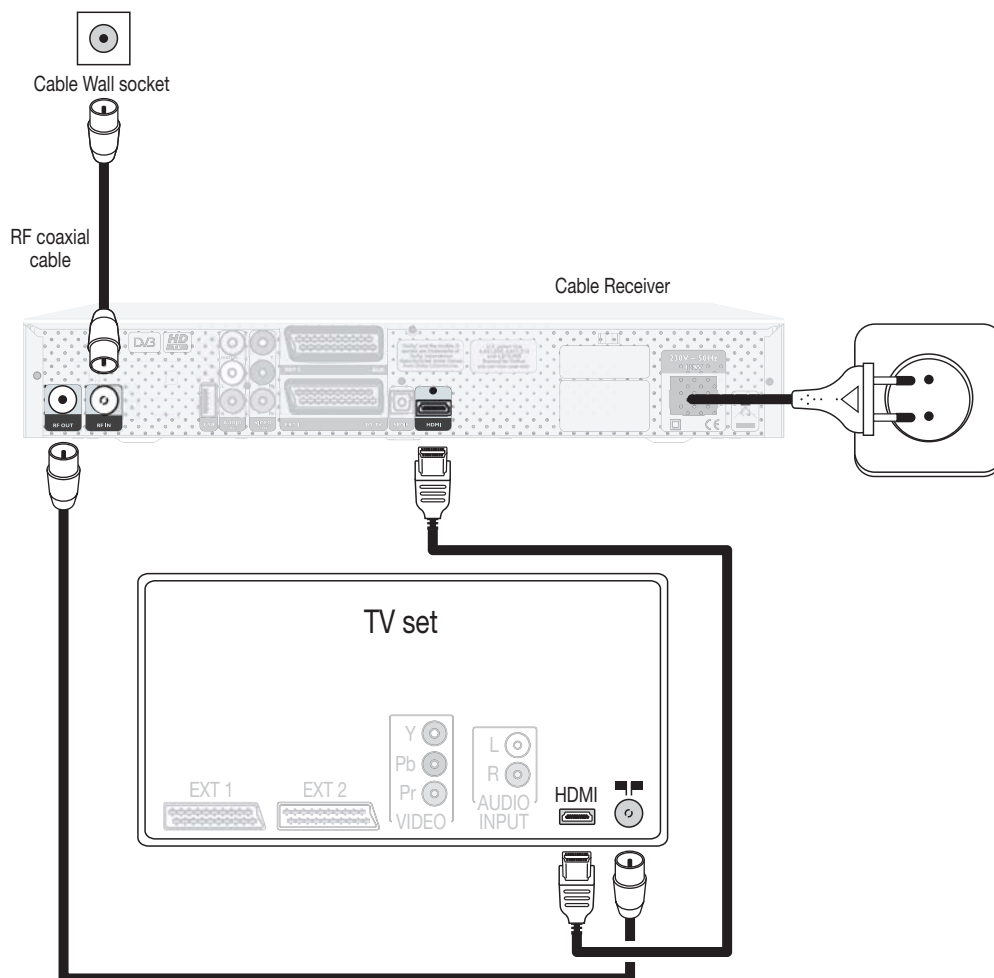
7.1.1 Your TV set is HDTV capable (HD-Ready label)

You want to connect your receiver so as to receive HDTV in HD quality.

7.1.1.1 Digital connection to TV via HDMI (lead supplied) - recommended

You have an HD-Ready TV set which is fitted with an HDMI input.

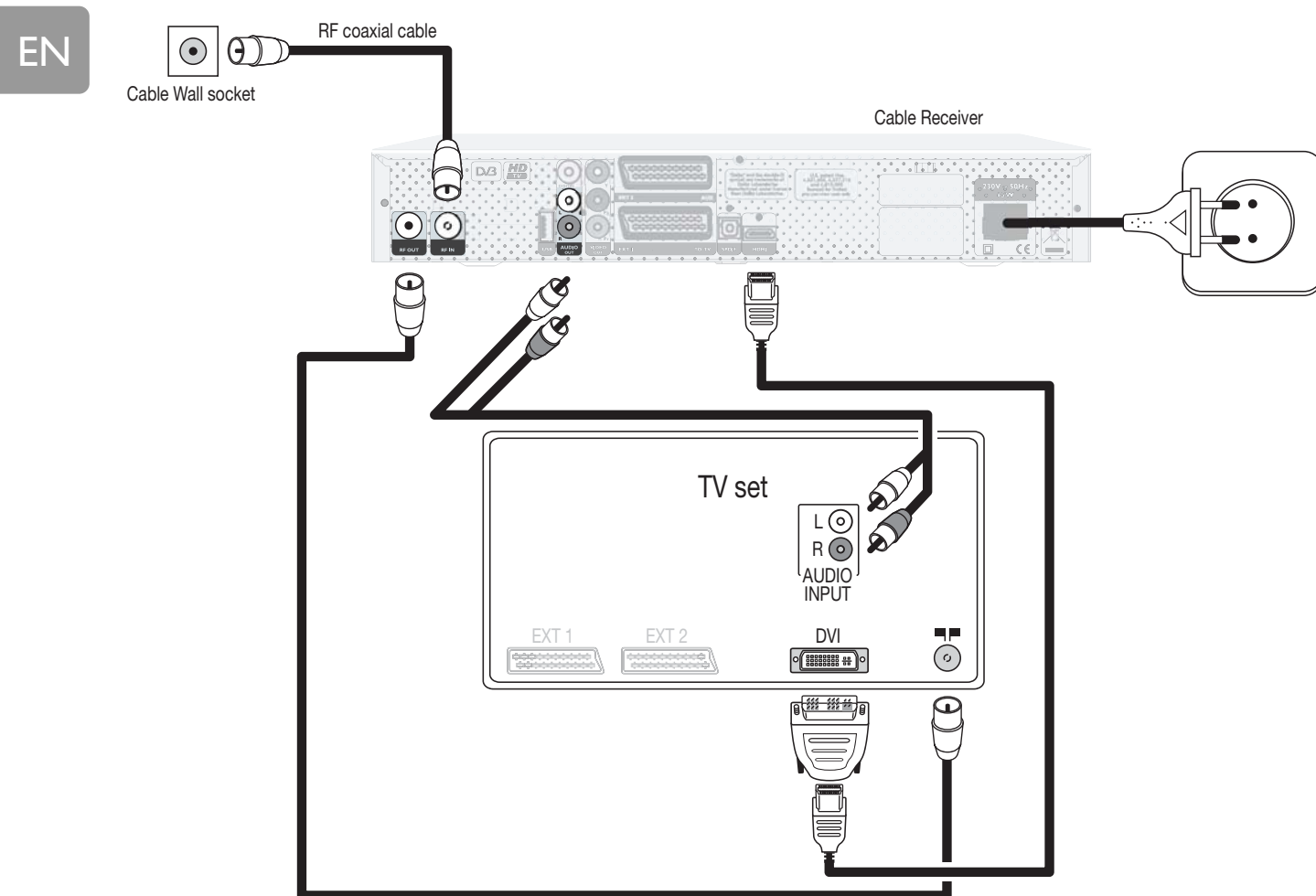
Incorporate your receiver in your existing installation as described below.



7.1.1.2 Digital connection to TV via DVI - recommended if your TV set is not fitted with an HDMI input

You have an HD-Ready TV set which is fitted with a DVI input only.

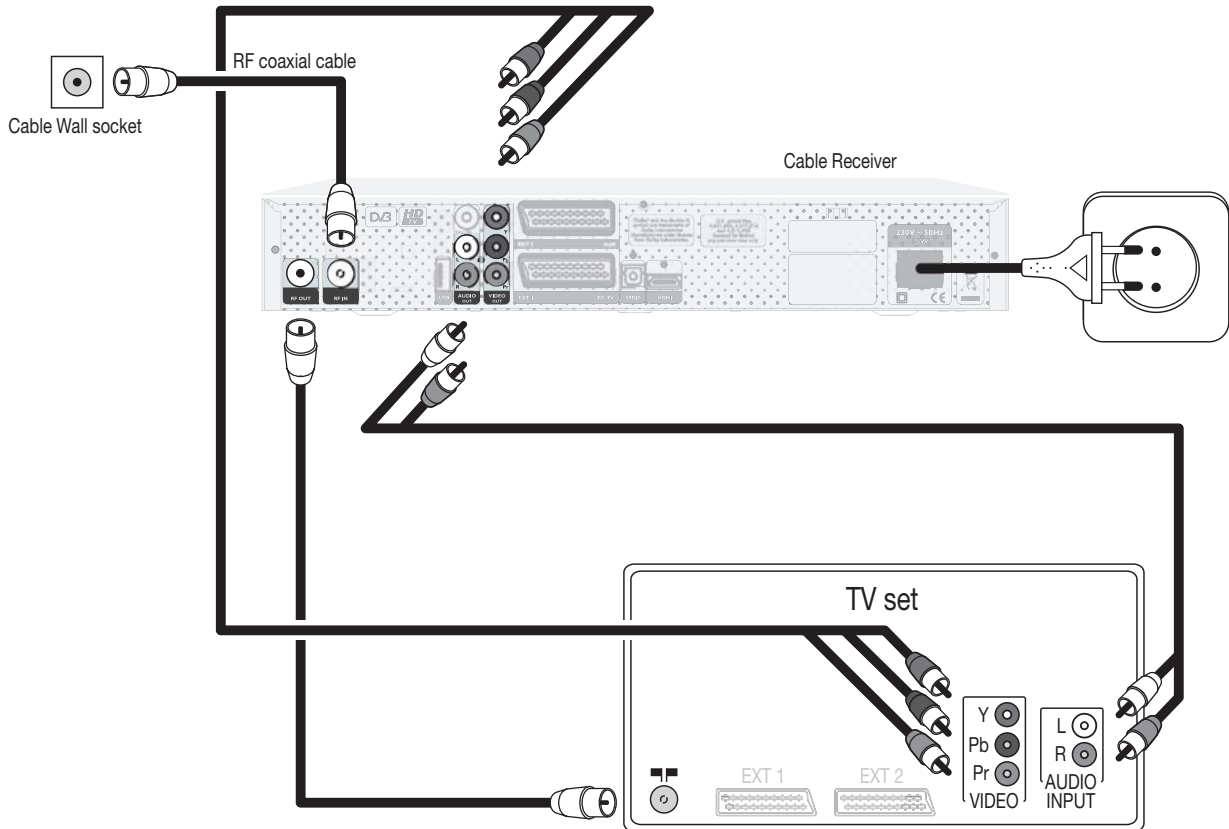
Incorporate your receiver in your existing installation as described below.



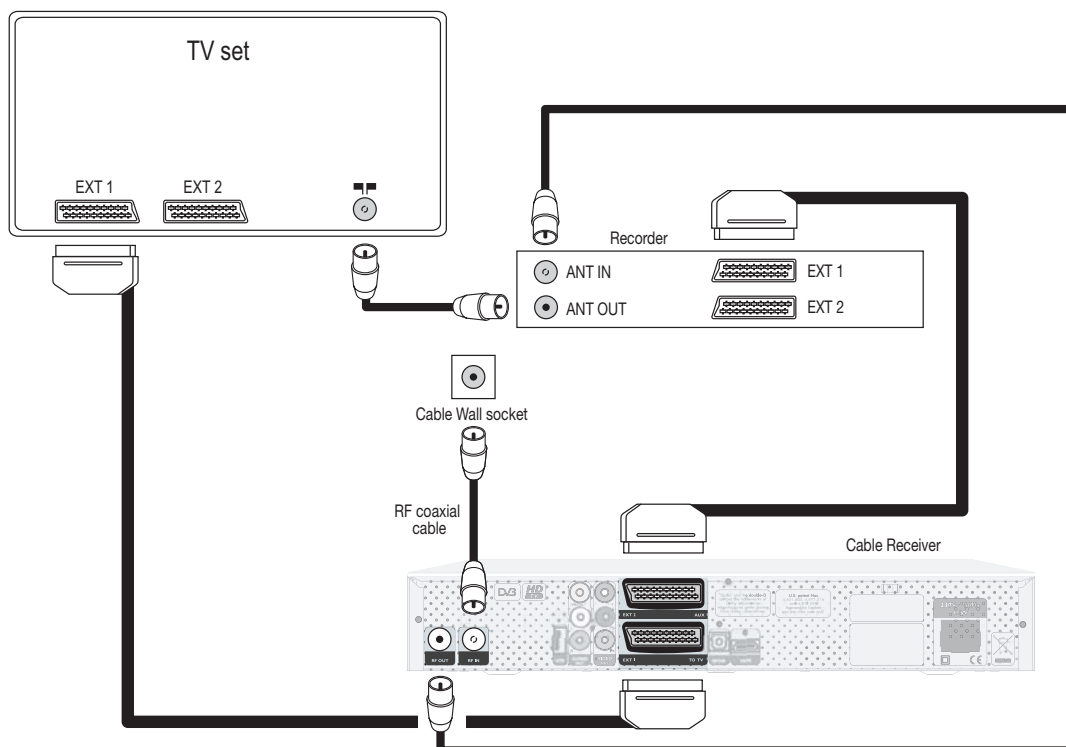
7.1.1.3 Analogue connection to TV via YPbPr (lead not supplied)

You have a TV set which is fitted with a YPbPr input (component input, no HDMI or DVI input). Incorporate your receiver in your existing installation as described below.

You may not be able to receive some content-protected, premium HDTV channels as these are only available through HDMI or DVI connection.

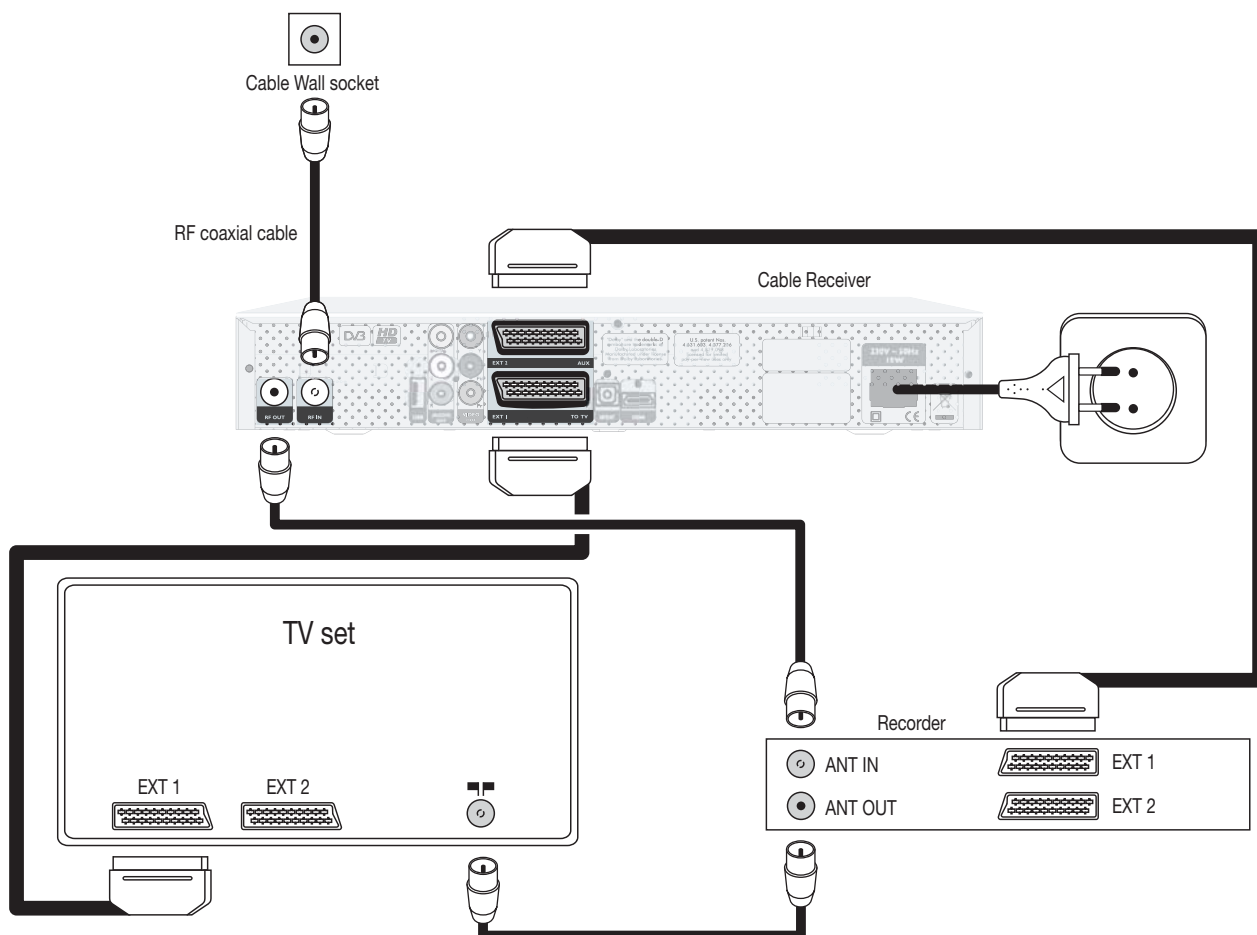


7.1.1.4 Connection to a recorder



7.1.2 Your TV set is only SDTV capable

Incorporate your receiver in your existing installation as described below.



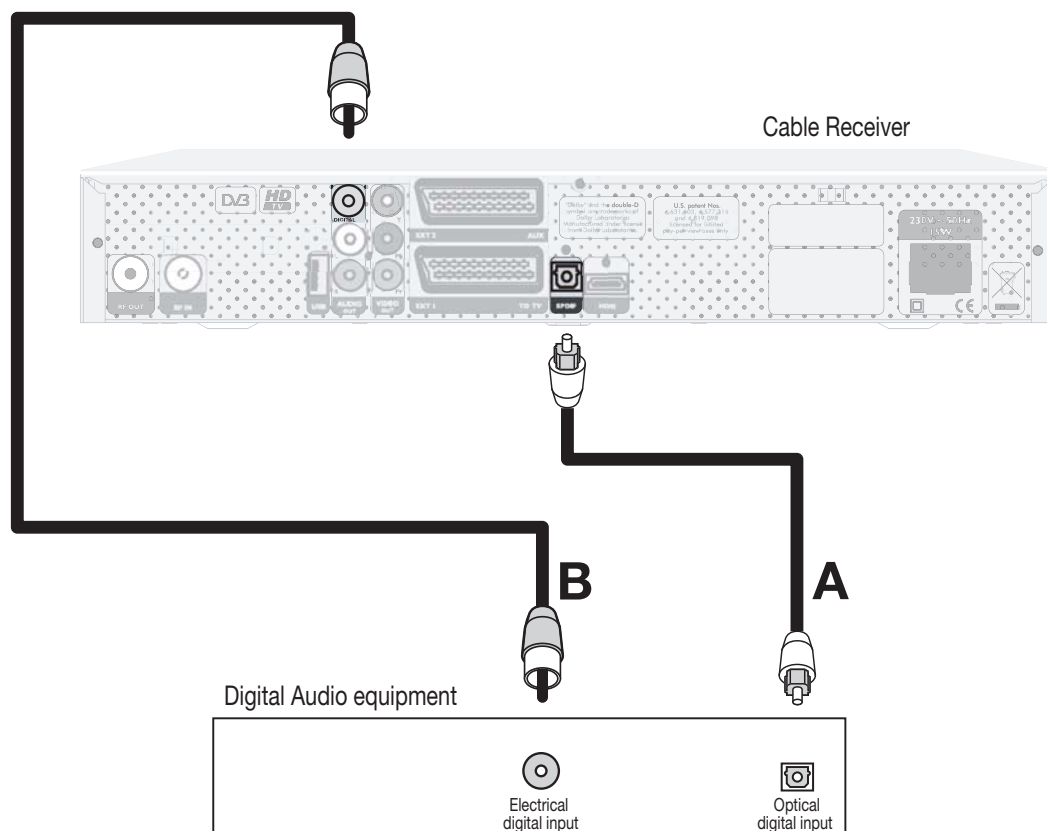
- Connect the cable from the cable wall socket to the “RF IN” socket of your digital receiver.
- Connect the “EXT1” SCART socket of your digital receiver to the RGB capable SCART socket of your TV using the SCART lead supplied with your digital receiver.
- Connect the “EXT2” SCART socket of your digital receiver to the “EXT1/OUTPUT” SCART socket of your recorder using a SCART lead.
- Plug all your equipment, excluding your digital receiver, into the mains.

This connection applies to both VCRs and DVD recorders fitted with one or two SCART sockets. With this connection set up, you can:

- watch digital TV while you record analogue TV.
- watch analogue TV while you record digital TV.
- record the digital TV channel you are watching.
- watch play-back from your VCR or DVD.

7.1.3 Digital audio connections

Depending on your audio equipment, you have several options to connect your digital receiver.



CONNECTION (A)

Either

Connect the “SPDIF” digital audio output socket to the relevant input socket of your audio equipment using an optical cable (not supplied). Consult the user manual of your audio equipment to locate the proper digital audio input. ⁽¹⁾

CONNECTION (B)

Or

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 audio equipment to locate the proper digital audio input. ⁽¹⁾

⁽¹⁾ With either connection, you can only control the volume (up/down and mute) using your audio equipment remote control; refer to the user manual of your audio equipment. To perform volume control using your receiver remote control, refer to the remote control user manual.

When using one of these digital audio connections, you may experience a de-synchronisation between sound and pictures (Lip synchronisation). To restore synchronisation, change the **Lip Synchronisation** setting as described in paragraph 9.7.

7.2 Connecting to a video projector to watch Digital TV

7.2.1 Your video projector is only SDTV capable

Connect the “EXT1” 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/S-Video adapter to the “TV” SCART of your receiver (not supplied), and connect the adapter to the S-Video input of your video projector by means of a S-Video cable.
- Installation: refer to chapter 13.5.2 to change the “TV/VCR output” setting of your digital receiver to S-VIDEO/PAL-CVBS.

7.2.2 Your video projector is HDTV capable (YPbPr, DVI, or HDMI interface)

Connect the HDMI, DVI, or YPbPr socket of your digital receiver to the corresponding input on your video projector.

8 First installation

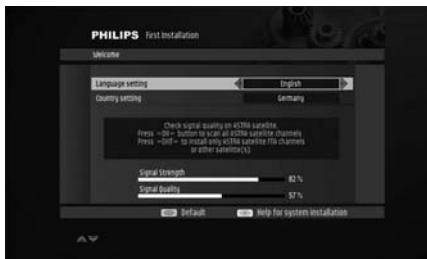
EN



You have inserted the batteries supplied in your remote control.

Your receiver is connected to the cable wall socket, TV set and other equipment according to one of the diagrams in chapter 7.

- Switch on your TV set and select the appropriate HDMI input (refer to your TV set user manual).
- Plug the receiver's power supply cord into the mains. The receiver display indicates **BOOTING**, then **WELCOME**.
- Press **V-Output** once, then check the receiver display indication:
 - If **HDMI DETECTED** is displayed, check that the welcome screen displays on your TV screen.
 - if **DVI OUTPUT** is displayed instead, successively press **V-Output** until the source selected matches your connections as described in paragraph 7.1 and the welcome screen appears on your TV screen.
- Press **P+** then **P-**. Wait for a few seconds for the **First Installation** screen to appear.



8.1 Installation settings

- Select your favourite language.
- Check for adequate signal strength and quality.
- Press **OK** to start searching for channels. The **Installation** screen appears.
- Proceed to paragraph 8.2.

If you press **EXIT** during the scanning process, you interrupt the scanning and go back to the previous screen. In this case, none of the channels found are stored.



8.2 Channel search

Once the scan has been successfully completed, a completion message is displayed.

- Press **OK**.

A new screen appears, with a message indicating that a search for new, upgraded software is in progress:

- Either wait for software detection, and then proceed as indicating on screen. It is recommended to accept software so as to keep your receiver up-to-date. At the end of the first installation, the receiver tunes to the first channel in the main TV list.
- Or press **EXIT** to stop searching for new software and tune the receiver to the first channel in the main TV list.

8.3 Search failure

In case of channel search failure, a message is displayed.

- Press **EXIT** to go back to the **First Installation** screen.

Before starting a new scan

The following checks are recommended to recover adequate signal quality and strength:


- Check the RF coaxial cable.
- Then check the RF coaxial cable connection to your receiver (see chapter 7).
- When the signal strength and quality is adequate, press **OK** to launch a new search.


If the failure message appears again, refer to chapter 17 to find out the reason for failure. For a proper diagnosis and installation check, call your installer.

9 Day-to-day operation

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9.1 Switching your receiver ON, or to LOW POWER or STAND-BY

In standby mode, there is no picture, no sound but your receiver is still active and the display indicates the time or .

In low power mode, your receiver is off and the  button indicator is lit in red.



Your receiver is in low power:

- Press **P+**, **P-**, or **TV/RADIO** either on the remote control or front panel, or press any number key on the remote control to switch to standby.

Your receiver is in standby:

- Press **P+**, **P-**, or **TV/RADIO** either on the remote control or front panel, or press any number key on the remote control to switch the receiver on.

You are watching digital TV or listening to digital radio.

- To put your receiver in stand-by, press  either on the remote control or front panel.
- To put your receiver in "low power", press  for 2 seconds either on the remote control or front panel.

Although it is recommended to switch your receiver to "low power" when not using it so as to save energy, bear in mind that update functions are not supported in "low power". Thus you should allow your receiver to remain in standby regularly (at least once a week) so as to enable updates.

9.2 Switching from watching digital TV to listening to digital radio

To switch your receiver from digital TV to digital radio and from digital radio to digital TV:

- Press **TV/RADIO** either on the remote control or on the front panel.

9.3 Changing channels while watching digital TV or listening to digital radio

9.3.1 Using number keys of the remote control





- Dial a number using the remote number keys to tune the corresponding channel.

9.3.2 Using P+/P- keys of the remote control or P+/P- buttons of the front panel

- Press **P+** to tune the next channel in the current channel list.
- Press **P-** to tune the previous channel in the current channel list.

9.3.3 Using channel lists

To select a channel from a channel list:

- Press **LIST** to display the current channel list (either the main TV list or the bouquet list previously selected).
- Press **LIST** repeatedly to display the list you want to select.
- Scroll to the channel you want to tune using the  or  key. Scroll from one page to another using the  or  remote control key.
- Press **OK** to confirm your choice. You can preview the channel on the right hand



- side of the screen or listen to the selected radio channel.
- Press **OK** again to close the channel list and watch the programme in full screen view.

Empty favourite lists cannot be opened.



9.4 PIN code

Child protection is a high priority. By entering your PIN code, you can watch programmes that have been locked for child protection at any time of the day or night - without neglecting the issue of child protection. For a programme to be passed for universal viewing, a certificate is required by law from the FSK (Free Self Control) on behalf of the State Child Protection Authorities. For a locked programme to be broadcast, a 4-digit PIN code has to be entered. You receive your PIN code together with your smart card.

Please note that this code is different from your password (also called “system password”). The PIN code is used to access programmes to which a maturity rating is assigned. Such programmes are systematically locked so as to prevent unsuitable audiences from watching them. When a maturity rating is associated to the current programme, a specific icon appears in the channel banner.

To view a locked programme, enter your PIN code when prompted.

Keep your PIN code secret to prevent children from using it.

To modify your PIN code, refer to paragraph PIN-Code Change.



9.5 Banner

An information banner is used to display information about the current channel and programme. Each time you change channel, the banner appears at the bottom of the screen, indicating:

- the current date and time
- the current channel list name
- the current channel name and number in the current channel list
- icons indicating the channel characteristics, e.g. availability of subtitles (see icon description table)
- NOW programme information (and NEXT programme information, accessible by pressing the ► key)
- a bar graph indicating:
 - the start time of the current programme,
 - the start time of the next programme,
 - the current progress.

To display the banner anytime while watching digital TV or listening to digital radio:

- Press **INFO** (i+).

For more info about the current programme while the banner is on:

- Press **INFO** (i+) a second time.

To close the banner:

- Press **INFO** (i+) a third time.

Icon	Description
I-II	Soundtrack selection
FAV	Current favourite list
M	Maturity rating available
C	Scrambled channel
L	Locked channel
...	Subtitles available
DD	Dolby Digital audio available
i+	Additional info available
⌚	Reminder set
QO	Recording timer set
16:9	16: 9 format available (EPG only)
HD	HD programme available
OPT	Alternate options available

9.6 Volume control ◀- / ▶+ / ✖

Your remote control is set to perform volume control through a Philips TV set. If you have a TV set other than Philips, refer to paragraph 15.3 to adapt the brand setting of your remote control to your TV set.



9.7 Current programme options/Lip Synchronisation

The **OPT** key is used to directly access the video content selection, audio language, subtitles language, teletext options and Lip synchronisation (sound-pictures synchronisation).

To change the current programme options:

- Press **OPT**.
- Set the desired setting using the ◀ or ▶ key.
- Press **OPT** to exit.

By default, subtitles are disabled.

If you use digital audio connections as described in paragraph 7.1.3 and experience sound-pictures de-synchronisation, change the **Lip Synchronisation** setting.

To change the **Lip Synchronisation** setting:

- Press **OPT**.
- Press the blue colour key.
- Change the setting as appropriate using the ◀ or ▶ key.
- Press the blue colour key to save the change.
- Press **OPT** to exit



9.8 Electronic Programme Guide (EPG)

While watching digital TV or listening to digital radio:

- Press **EPG** to open the EPG for the current channel. The highlight is on the current programme (also called "NOW" programme).

If after a short time no information appears for the current or the next programme, it means that no information is available.

- Press **i+** (INFO) to display extended information for the highlighted programme. When information is made up of several pages, press ▲ or ▼ to scroll up or down. Press **i+** (INFO) again to quit extended information.
- Press the ▼ or ▲ key to move the highlight to the previous or next programme respectively.
- Press the ◀ or ▶ key to view the previous or next day programme list respectively.
- Press **P-** or **P+** to view the previous or next channel programme list respectively.

To set a recording timer or a reminder, follow the instructions displayed on the screen.

EPG information has to be updated regularly (at least once a week). Updates are performed automatically every time you turn your receiver to standby. To allow for complete update of EPG information, make sure you regularly turn your receiver to standby. If your EPG information has not been completely updated, some pieces of information may not be available; for instance, you might get incomplete information when performing a search. Also note that EPG information has to be fully reloaded in case of power failure, "low power" mode, or network or content modification.

9.9 Set or delete recording timers

Recording timers are used to perform VCR or DVD recordings.



Please note that during a recording your receiver is locked and most remote control keys are inactive. To watch another digital channel, you must cancel the active timer.

9.9.1 Setting a timer in the EPG

- In the EPG, press **TIMER** once to set a recording on the selected programme that is highlighted. Press **TIMER** once again to set a reminder on the programme. The timer type is signalled in the highlight using icon **LO** for recordings or icon **⌚** for reminders. Press **TIMER** a third time to delete the timer.

When setting a timer on a locked channel, you will be prompted to enter your password.

To edit a timer from the EPG:

- Move the highlight to the desired programme and press **OK** to access the Timer Edition screen.

9.9.2 Cancelling an active timer

A timer is active; recording is signalled by the **RECORDING** indication on the display.

To delete the active timer:

- If your receiver is in standby, press **P+**, **P-**, **TV/RADIO**, or any number key.
- Press the key sequence **TIMER** then **0** to cancel the active timer. The **RECORDING** indication then disappears and you can change channels.

9.9.3 Your receiver is locked with the **RECORDING** indication shown on the front display

Your receiver is blocked because a timer is active.

- Press the key sequence **TIMER** then **0** to cancel the active time and recover full control of your receiver.

9.10 Viewing teletext

- Press **TEXT**.
- Use number keys to select a page.
- Press **TEXT** to exit.

9.11 Checking or changing the video output resolution setting

To check the current output resolution setting, press **V-Format** once.

In case the picture displayed is distorted, try switching between output resolution settings by successively pressing **V-Format**.

10 Premiere features

Some Premiere channels include special features. On so-called “Options channels”, during sports broadcasts, you can choose between different matches (e.g. football), change audio soundtracks (e.g. stadium/ commentary) or choose between different camera angles (Formula 1). Using the “Options channels” on the PREMIERE DIREKT portal channels, you can also choose the start time of your choice for the movie you're ordering.

10.1 Premiere Multifeed

Premiere sports broadcasts are available via the Options channels. This means that the viewer can choose from a wide variety of channels and angles via the PREMIERE sports portal. A programme can be selected as follows: When multifeed options are available for the current programme, the **OPT** icon is displayed in the channel banner. To select a multifeed option:

- 1 Press the yellow **OPT** key of the remote control to open the Options screen.
- 2 Scroll to the option you want to set using the **▲** or **▼** key.
- 3 Select the sports programme using the **◀** or **▶** key.
- 4 Press **OK** to confirm and exit the Options screen.

10.2 PREMIERE DIREKT

PREMIERE DIREKT presents various programmes at various times that you can order individually. All the information about the programmes on offer, prices and the process of ordering is available from the PREMIERE DIREKT portal or at www.premiere.de/direkt.

Here is how you can watch the programmes you ordered on PREMIERE DIREKT:

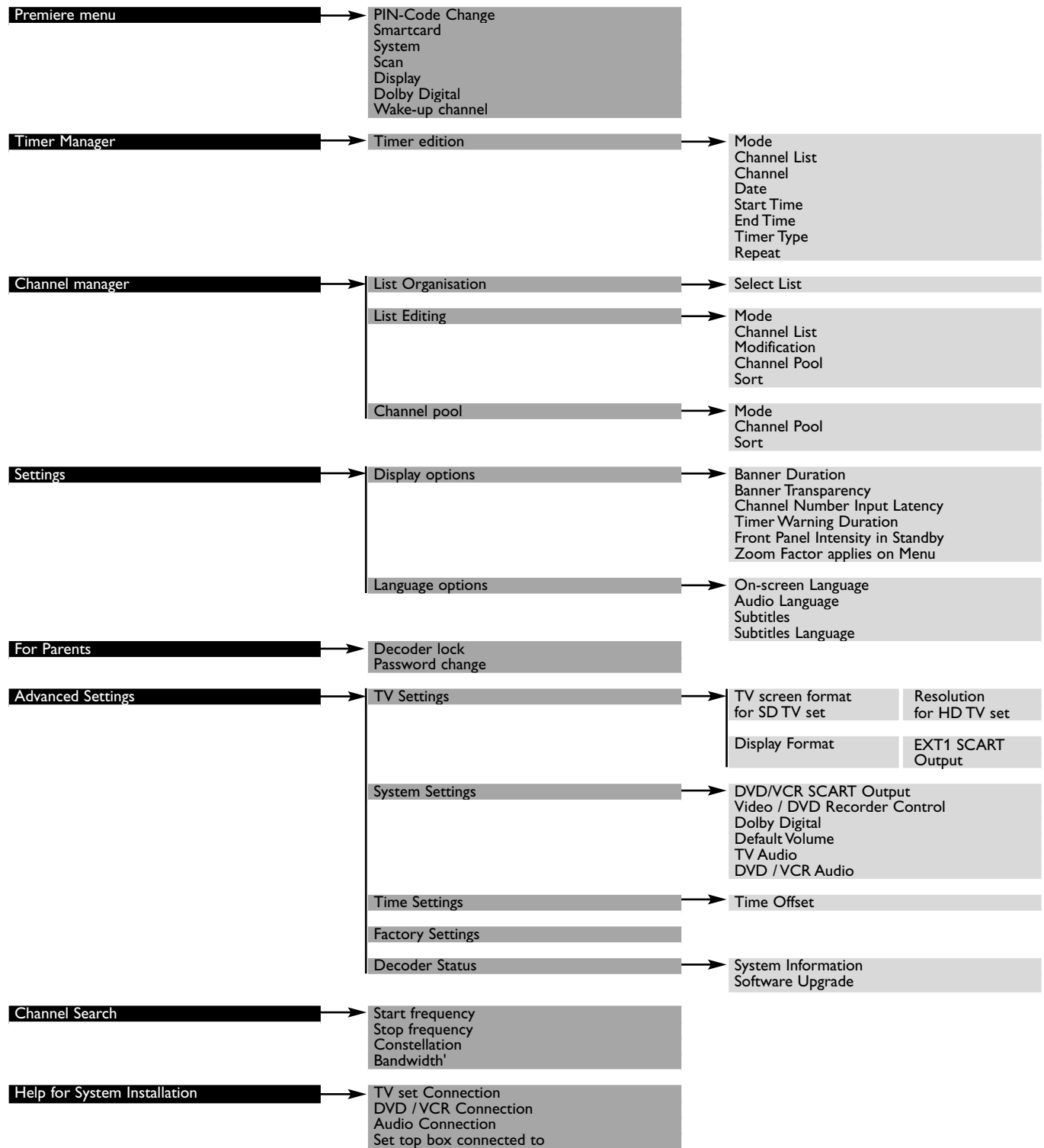
- 1 Press the yellow **OPT** key on the remote control to open the Options screen.
- 2 Use the **▲** or **▼** key to place the cursor on the picture selection.
- 3 Use the **◀** or **▶** key to select the movie at the start time you want, e.g. D2 - 9.30pm.
- 4 Press **OK** to confirm and close the Options window.



11 Premiere Menu

EN

11.1 Menu tree



11.2 Menu navigation

11.2.1 Basics

While watching digital TV or listening to the radio:

- Press the **MENU** key to display the Main Menu.
- Press the **▲** or **▼** key to select the desired menu item. Alternatively, dial the number corresponding to the menu item you want to open.
- Press **OK** to display the sub items.



EN

Press **MENU** to close the menu and return to watching TV.

11.2.2 Changing settings

Once you highlighted an adjustable item or sub item, you can then access the values and make changes using the **◀** or **▶** key to select an option and number keys to enter numerical values.

When Parental control is activated, you need to enter your password to open certain menu items.

11.2.3 Cancelling/storing changes

- Either press **EXIT** to exit the screen without storing changes.
- Or press **OK** to validate changes and exit the screen.

In both cases, the selection moves one step back in the menu.

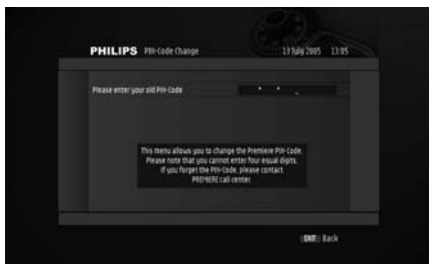
12 Premiere Menu

EN



The Premiere Menu includes the following items:

- o PIN Code Change
- o Smartcard
- o System
- o Scan
- o Display
- o Dolby Digital
- o Wake up



12.1 PIN Code Change

This screen is used to modify the PIN code for the protection of minors. To modify your PIN-Code, follow the instructions displayed on screen.



12.2 Smartcard

This screen is used to display information about your smartcard.



12.3 System

This screen is used to display information about your receiver, including the Premiere Serial Number and software version.

12.3.1 Software Upgrade

12.3.1.1 Automatic software upgrade notification

While in Stand-by, your receiver searches for software upgrade. If available, a notification is displayed at receiver wake-up from Stand-by. To upgrade your receiver, follow the instructions displayed on screen.

12.3.1.2 Check for new software availability

- Press the red colour key from the **System** screen described above to launch a search for new software. After a few seconds, the **Software Upgrade** screen indicates whether new software is available.
- To proceed with the receiver software upgrade, refer to paragraph 13.5.5.2.

12.3.2 Factory Settings

This screen is used to reset your receiver back to the factory default condition.

- Press the green colour key.
- When prompted, press the green colour key again to confirm.
- Alternatively, press **EXIT** to exit the screen without modifying the receiver settings.

If you reset your receiver to factory settings, you lose all the settings you stored previously.

12.4 Scan

This screen is used to view the date and results of the last scan performed. It may also be used to launch a new scan.

- Press the green colour key to scan the KDG network.
- Alternatively, press the yellow colour key to search for All channels.

12.5 Display

This screen is used to set your receiver according to your TV set screen format and depending on the output selected (HDMI/DVI, YPbPr, or EXT1/2).

- Set values for the following (default settings are underlined>):

	HDTV output		SDTV output
	HDMI/DVI	YPbPr	EXT1/2
TV Screen Format	16: 9		4: 3 or 16: 9 , depending on your TV set
Display format	Full Screen or Pillar Box , or Extended See table in paragraph 13.5.1.		Auto or Letter Box , or Centre Cut-Out
Resolution	<u>Auto</u> , 1080i , 720p , or 576p		Not adjustable (always 576i)
TV SCART Output	Not applicable		RGB (recommended) or CVBS , or S-VIDEO
AV Control			On (recommended) or Off

- Press **EXIT** to exit the screen.

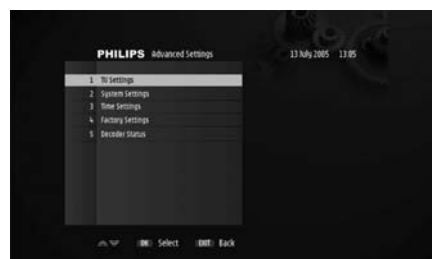
12.6 Dolby Digital out of the digital audio output

This screen is used to enable/disable Dolby Digital sound.

When Dolby Digital is disabled, you can still get stereo sound in digital format (PCM).

12.7 Wake up

This screen is used to set the channel to be tuned at the receiver wake-up. Default setting is programme 100.



13 Settings

EN

13.1 Timer Manager

The Timer Manager is used to set, edit or delete:

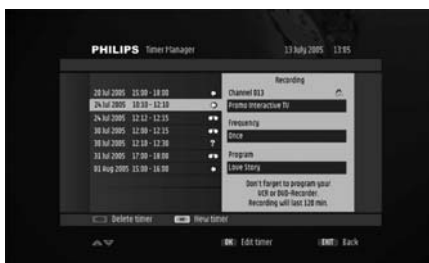
- o recording timers for the programmes you want to record using your VCR or DVD recorder,
- o reminders for the programmes you want to see in the near future.



To be able to record a digital channel using a VCR or DVD recorder, you must program both your recorder and receiver:

- You must set a timer on your receiver.
- You must also set a timer on the VCR or DVD recorder (refer to the VCR or DVD recorder user manual).

If you have a Philips VCR or DVD recorder, you can avoid setting a timer on the VCR or DVD recorder by using the Video/DVD Recorder Control feature. Refer to paragraph 14.3 for more information on Video/DVD Recorder Control.



To delete an existing timer:

- Scroll to the timer you want to delete.
- Press the red colour key to delete it from the timer list.
- Press **EXIT** to exit the screen.

To set or edit a timer:

- Scroll to the timer you want to edit and press **OK** to select it from the timer list.
- Alternatively, simply press the green colour key to set a new timer.
- Then set or modify the following:
 - **Mode:** select **TV** or **Radio** service using the ◀ or ▶ key.
 - **Channel list:** select the list to which the channel you want to record belongs using the ◀ or ▶ key.
 - **Channel:** select the number of the channel on which the programme you want to record is broadcast using the ◀ or ▶ key or number keys.
 - **Date:** select a date using the number keys or the ◀ or ▶ key.
 - **Start time:** select a start time using the number keys or the ◀ or ▶ key to modify the default time in steps of 1 hour.
 - **End Time:** select a end time using the number keys or the ◀ or ▶ key to modify the default time in steps of 1 hour.
 - **Timer Type:** select Recording or Reminder
 - **Repeat:** select **Once** for a single recording at the selected time and date, **Every day** to record once every day, or **Every week** to record once every week using the ◀ or ▶ key.
- Press **OK** to confirm, or **EXIT** to go back to the timer list screen.

When a recording timer is active, you cannot change digital channels, but you can switch to analogue TV from your TV set and zap through analogue channels.



13.2 Channel Manager

During installation, a Main TV channel list and bouquet lists are built up according to your cable TV supplier's presets.

The Main TV or Radio list is made up of three sub-sets:

- a list you can customize according to your preferences: channels 1 to 99 (this list is empty after first installation)
- a list containing all Premiere channels if available: channels 100 to 199
- a list containing all the channels found: from channel 200 onwards.



The Channel Manager sub menu includes the following items:

- o List Organization
- o List Editing
- o Channel Pool

13.2.1 List Organization

This item is used to activate or de-activate bouquet lists.

- 1 Select TV or Radio channel lists using the **TV/RADIO** key.
- 2 Scroll to the list you want to activate or de-activate using the **▲▼** keys.
- 3 Press the red colour key to activate or de-activate the list.
- 4 Press **EXIT** to confirm and exit.

13.2.2 List Editing

This item is used to customize the editable part of the Main TV list (channels 1 to 99).

- 1 Set criteria for the channels you want to Add or Remove/Reorder:
 - **Mode:** **TV** or **Radio** depending on the type of channels you want
 - **Channel List:** **Main TV**, which is the only editable list
 - Set the **Modification** feature you want to use: **Add Channels** or **Remove/Reorder Channels**
 - In case you selected **Add Channels**, you must also define the channel pool from which you want to add channels by setting values for the following:
 - o **Channel Pool:** channel properties you want to use as filtering criteria
 - o **Sort:** list ordering method
- 2 Press **OK** to access the next screen. It may take a few seconds for this screen to appear.

To add channels to the editable part of the Main TV list (Add Channels):

- 1 Scroll to the channel you want to add using the **▲▼** keys.
- 2 Press **OK** to add the channel to the list.
- 3 Repeat this operation as needed.
- 4 Press **EXIT** to exit the screen.

To remove channels from the editable part of the Main TV list (Remove/Reorder Channels):

- 1 Press the red colour key to remove all channels from the list.
- 2 Alternatively, scroll to the channel you want to remove using the **▲▼** keys.
- 3 Press **OK** to remove the channel. Deletion is immediate.

To reorder channels in the editable part of the Main TV list (Remove/Reorder Channels):

- 1 Scroll to the channel you want to move using the **▲▼** keys.
- 2 Press the yellow colour key to enable reordering, as indicated by the presence of the double arrow.
- 3 Move the channel to the desired position using the **▲▼** keys.
- 4 Press **OK** to confirm.
- 5 Repeat this operation as needed.

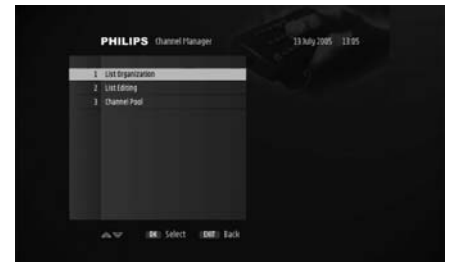
13.2.3 Channel Pool

This item is used to lock or unlock channels.

When zapping through the channel lists, locked channels will be signalled using a lock icon and protected by PIN-Code. The PIN code is a 4-digit code used to prevent access to inappropriate Premiere programmes (parental control).

To set the channel pool:

- 1 Select values for the following:
 - **Mode:** TV or Radio depending on the type of channels you want to manage
 - **Channel Pool:** channel properties to be used as filtering criteria
 - **Sort:** list ordering method
- 2 Press **OK** to access the next screen. It may take a few seconds for this screen to appear.



13.5 Advanced settings

The Settings sub menu menu includes the following items:

- TV Settings
- System Settings
- Time Settings
- Decoder Status
- Factory Settings

13.5.1 TV Settings

This screen is used to set aspect ratio settings.

- Select values for the following (default settings are underlined):

	HDTV output		SDTV output
	HDMI/DVI	YPbPr	EXT1/2
Resolution	<u>Auto</u> , 1080i, 720p, or 576p		Not applicable
TV Screen Format	Not adjustable (always 16: 9)		<u>4: 3</u> or <u>16: 9</u> , or <u>Auto</u> depending on your TV set
Display format	<u>Full Screen</u> or <u>Pillar Box</u> , or <u>Extended</u> See tables below.		<u>Auto</u> or <u>Letter Box</u> , or <u>Centre Cut-Out</u>
TV SCART Output	<u>CVBS</u> , or <u>S-VIDEO</u>		<u>RGB</u> (recommended) or <u>CVBS</u> , or <u>S-VIDEO</u>

- Press **OK** to confirm.

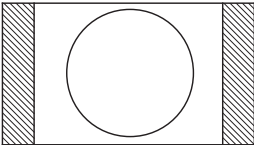
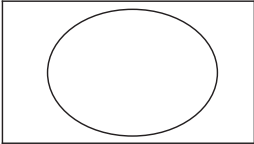
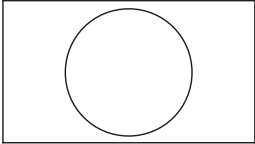
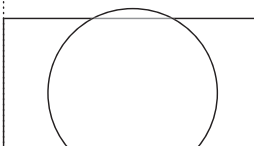
Display format is used to set the way the video is transformed in case the broadcast aspect ratio and your TV screen format (4:3 or 16:9) do not match.

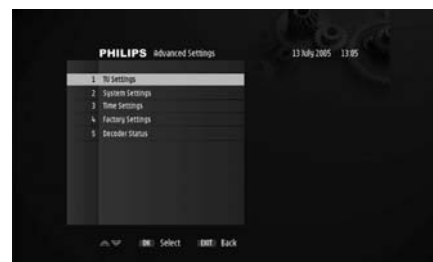
Select **Auto** for automatic format selection.

Case1:

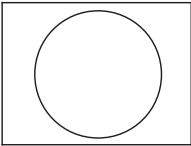
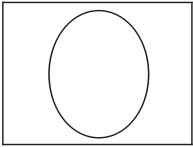
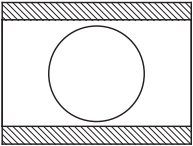
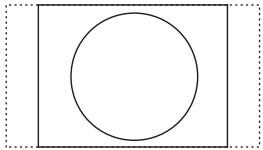
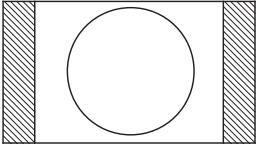
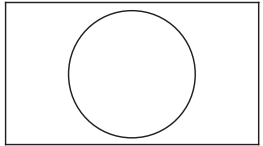
Video via HD connection (HDMI/DVI or YPbPr)

TV screen format is supposed to be 16:9

	Broadcast is 4:3	Broadcast is 16:9
Pillar box		
Extended		
Full screen		



Case2:
Video via SCART
TV screen format is either 4:3 or 16:9

		Broadcast is 4:3	Broadcast is 16:9
TV is 4:3	Auto		
	Letter box		
	Centre cut-out		
TV is 16:9	Any setting		



13.5.2 System Settings

This screen is used to set your receiver audio/video output settings.

- Select values for the following:
 - **DVD/VCR SCART Output:** select the EXT2 SCART output format supported by your TV set and DVD/VCR (refer to your TV and DVD/VCR user manual for more information)
 - **Dolby Digital:** select **ON** to enable Dolby Digital sound
 - **Video/DVD Recorder Control:** **No**, **Prepare Record**, or **Record Link** depending on the control feature supported by your recorder (for more information, refer to paragraph 14.3 of this manual or to your recorder user manual)
 - **TV Audio:** select **Stereo** or **Mono** depending the audio output format of your TV
 - **DVD/VCR Audio:** select Stereo or Mono depending the audio output format of your DVD/VCR
 - **Default Volume:** select the volume level at wake-up.
- Press **OK** to confirm.

13.5.3 Time Settings


This screen is used to set the local time offset with respect to actual local time retrieved from the network.

The offset setting is updated automatically.



- 1 Select the appropriate Time Offset with respect to GMT time.
- 2 Press **OK** to confirm and exit the screen, or **EXIT** to exit without storing the changes.

To lock or unlock a particular channel:

- 1 Scroll to the channel you want to lock or unlock.
- 2 Press the yellow colour key to lock it. A  mark appears, indicating that the channel is locked.
- 3 Alternatively, press the yellow colour key to unlock a locked channel.
- 4 Repeat this operation as needed.
- 5 Press **EXIT** to exit the screen.

13.3 Settings

Settings is used to set:

- Display options
- Language options

13.3.1 Display options

This screen is used to set display options according to your preferences.

- Select values for the following:
 - **Banner Duration:** select a banner display duration, from 2 to 8 seconds using the ◀ or ▶ key.
 - **Banner Transparency:** select On to enable banner transparency.
 - **Channel Number Input Latency:** select the time lapse after which a number key press is taken into account, from 1 to 5 using the ◀ or ▶ key.
 - **Timer Warning Duration:** select a banner display duration, from 15 seconds to 5 minutes using the ◀ or ▶ key.
 - **Front panel intensity in Standby:** Low or High
 - **Zoom factor applies on menu:** from 1.0 (no zoom) to 1.2 (+20 % zoom)
- Press **OK** to confirm.

13.3.2 Language options

This screen is used to set language options according to your preferences.

- Select values for the following:
 - **On-Screen Language:** select a language for on-screen display
 - **Audio Language:** select your audio language
 - **Subtitles:** select **On**, **"If audio not available"**, **"Hard of hearing"** for special subtitles for deaf or Hard of Hearing viewers, or **Off** to disable subtitles.
 - **Subtitles Language:** select subtitles language.
- Press **OK** to confirm.

13.4 For Parents

This screen is used to enable Parental Lock and change your receiver password.

The password is a 4-digit code used to lock channels and features of the receiver. This code is different from the PIN code, which is a 4-digit code used to prevent access to programmes not intended for persons under 18.

To enable Parental Lock:

- Select **Yes** to enable Parental Lock.
- Alternatively, select **No** to disable Parental Lock.

Additionally, you may modify your receiver password from this screen.

To modify your receiver password:

- 1 Press the red colour key to access the Password Change feature.
- 2 Enter your current password.

If you have never changed your password, enter 1234 (factory setting).

- 3 Enter your new password using number keys. Note that your password cannot be made up of identical digits.



1911 must not be used as a password!

- 4 Enter your new password again to confirm.
- 5 Press **EXIT**.



13.5.4 Factory Settings

This screen is used to reset your receiver back to the factory default condition.

- When prompted, press the red colour key to confirm.
- Alternatively, press **EXIT** to exit the screen without modifying the receiver settings.

If you reset your receiver to factory settings, you lose all the settings you stored previously.

13.5.5 Decoder Status

The Decoder Status sub menu includes the following items:

- o System Information
- o Decoder Upgrade

13.5.5.1 System Information

This screen is used to display information about your receiver, including the Premiere Serial Number and software version.

You can also access this screen via the Premiere menu.

13.5.5.2 Software Upgrade

This item is used for software upgrades. Select it to check the current software version as well as launch a search for new software. After a while, the **Software Upgrade** screen indicates whether new software is available.

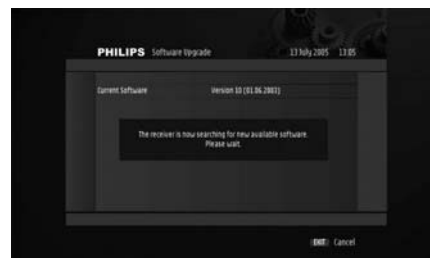
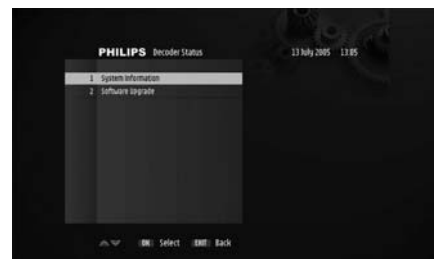
- Press **EXIT** to exit the screen in case no new software is available.

In case software is available, you are offered three options:


- Press the green colour key to choose to upgrade your receiver immediately, and then press **OK** to launch new software installation.
- Or press the yellow colour key to choose to upgrade your receiver later; and then press **OK** to confirm your choice. New software installation takes place as soon as you set your receiver to standby.
- Or press the red colour key to refuse to upgrade your receiver and return to the Decoder status sub menu.

After successful software installation, a confirmation message is displayed. In case of installation failure, a failure message is displayed, indicating that a new installation attempt will take place as soon as you set your receiver to standby. In both cases, press **OK** to exit the upgrade process.

You can also launch a search for new software from the screen described above using the red colour key.



Software upgrade messages

START UPDATE	Software update starting
LOADING 000 LOADING 100	Software loading progress: from 0 to 100%
SAVING 000 SAVING 100	Software storing progress: from 0 to 100%  Do not unplug the receiver before the end of the storing operation.

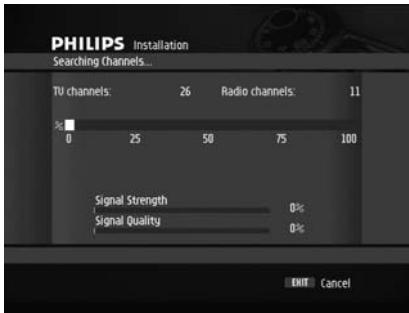
13.6 Channel Search

This item is used to search for new channels.

It is recommended not to change the predefined settings:

- Start frequency: 114 MHz
- Stop frequency: 858 MHz
- Constellation: Auto
- Band width: 8000 KHz





Press **OK** to start searching for new channels.

During the scanning process, the following information is reported on screen:

- the number of TV and Radio channels found,
- the scanning progress, indicated as a percentage,
- the strength of the signal and the quality of reception.

If you press **EXIT** during the scanning process, you interrupt the scanning. In this case, none of the channels found are stored.

When scanning is successfully completed, a completion message is displayed as well as the number of channels detected.

Press **OK** to tune the receiver according to the Wake-up channel setting.

14 Advanced settings

EN

14.1 Restoring factory settings

To restore your receiver factory settings, refer to paragraph 13.5.4.

14.2 Changing the remote control setting

If you have other items of equipment in your home and the remote control of the Philips receiver interferes with them, you can change the setting of the remote control. For this you must first change the setting of your remote control and then change the setting of your receiver.

First change the setting of your remote control:

- Select the **STB** mode.
- Simultaneously press number keys **1** and **3** and hold them for at least 3 seconds. The green indicator surrounding the **⏻** key blinks twice.
- Simultaneously release the two keys.
- Enter the new setting within the next 60 seconds:
 - 1646 for alternative setting (STB 2)
 - 1103 for the default factory setting (STB 1)

The green indicator surrounding the **⏻** key blinks twice again, indicating successful setting change. The remote control can also be tested by trying to control the receiver. If the setting has been changed, the remote no longer operates the receiver.

If the batteries are removed while a key is being pressed, the default factory setting is restored.

Then change the setting of your receiver:

- Disconnect your receiver from the mains.
- Reconnect your receiver to the mains. The green indicator turns on, then it turns off while **BOOTING** displays. When the green indicator starts blinking, simultaneously and briefly press the **P+** and **P-** buttons on the front panel. **RCU:SETTING** appears.
- Press the **OK** key of your remote control.

The display then indicates either the setting change or the setting change failure (see table below).

Remote control setting messages

RCU:SETTING	Receiver in remote control setting change mode
SET TO STB2 or SET TO STB1	Successful remote control setting change
RCU:PASS	Remote control setting changed
RCU:FAILED	Remote control setting change failed

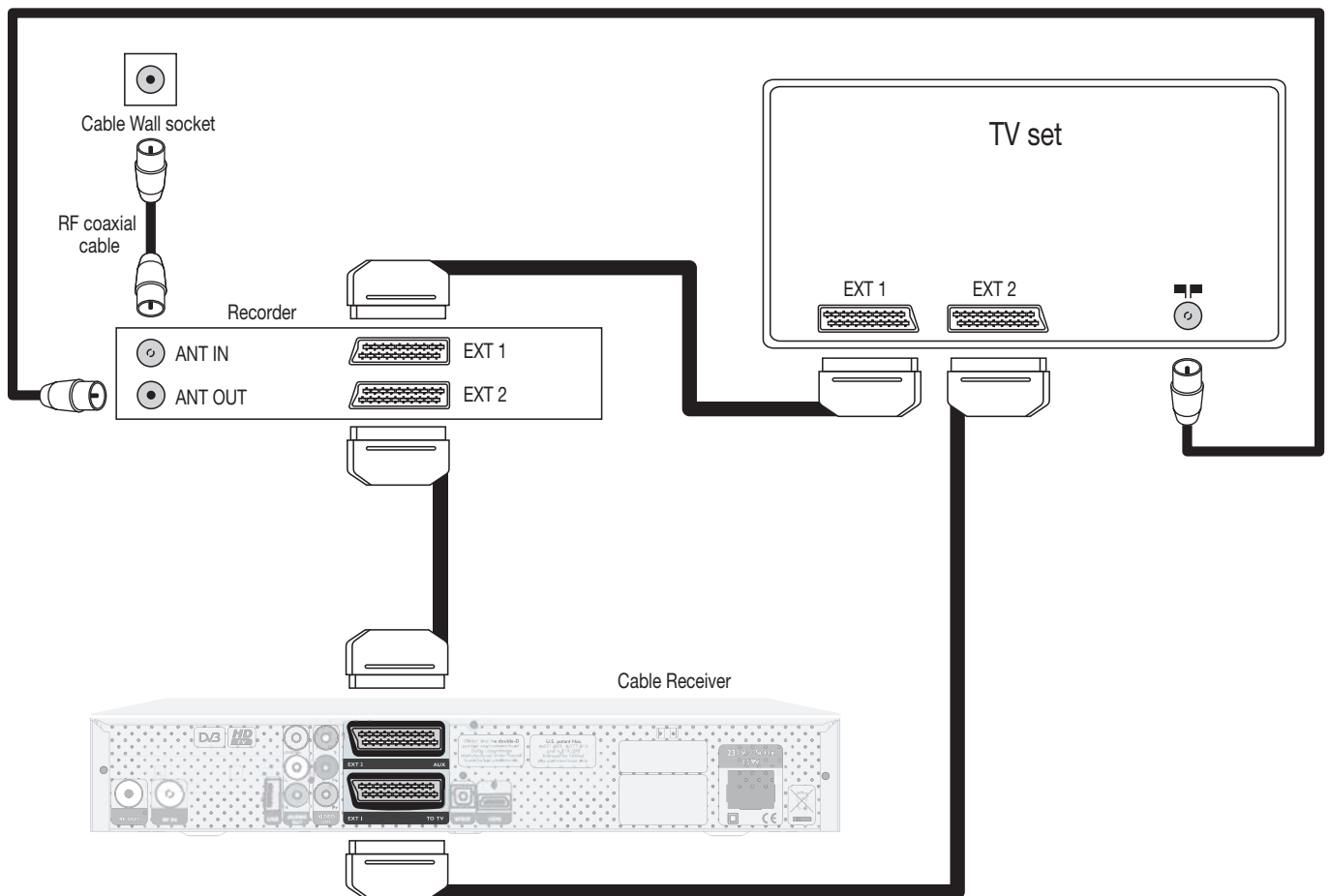
14.3 VCR or DVD recorder control

14.3.1 Connecting your equipment for Video/DVD Recorder Control

The Video/DVD Recorder Control feature allows automatic recording without requiring you to programme your VCR or DVD recorder. All you need to do is set a recording timer on your receiver. Your VCR or DVD recorder will then start/stop recording automatically. Prior to setting this feature:

- Consult the user manual of your VCR or DVD recorder to check if and how VCR/DVD is supported (sometimes called Easy Recording). Most Philips VCR and DVD recorders support one of the two Video/DVD Recorder Control options, i.e. Prepare Record or Record Link.
- Check that your TV and VCR or DVD are both fitted with two SCART sockets.

- Incorporate your receiver in your existing installation as described below.



- Connect the cable from the cable wall socket to the “RF IN” socket of your digital receiver.
 - Connect the “EXT1” 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 “EXT2” SCART socket of your digital receiver to the EXT2 SCART socket of your recorder (called “IN” or “DECODER”) using a SCART lead.
 - Connect the EXT1 SCART socket of your recorder (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.
- Read chapter 1 to proceed with the channel scan 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.

Some VCR or DVD recorders need to be in standby to use the Easy recording or Record link feature. Refer to your VCR or DVD recorder user manual.

14.3.2 Digital receiver and VCR or DVD recorder settings

- Depending on your VCR or DVD recorder brand and type, you have to set the recording control option to “Prepare Record” or “Record Link”. Refer to the VCR or DVD recorder user manual, or try the two options to find out which is most suitable.
- Set your VCR or DVD to “Prepare Record” or “Record Link” to allow control by your digital receiver.

14.3.3 Recording using the Video/DVD Recorder Control feature

- Your digital receiver, TV and VCR or DVD are connected and set according to paragraph 14.3.1.
- You have set a timer on your digital receiver.
- At timer start, your VCR or DVD recorder 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.

15 Programming your remote control for your audio/video equipment brands

Prior to using your universal remote control, check or set the following:

- Device you want to control (Mode selection)
- Volume and mute control assignment
- Brand setting for your TV, VCR, DVD and Amplifier

15.1 Mode selection (selecting the device you want to control)

Your 5-in-1 remote control can be used to control most of your audio/video equipment through various modes:

- **STB** mode for the control of your Digital Receiver
- **TV** mode for the control of your TV set
- **VCR** mode for the control of your VCR
- **DVD** mode for the control of your DVD or DVD Recorder
- **AMP** mode for the control of your audio tuner/amplifier.



Press **SELECT** once to check which mode is active. To change the mode, press **SELECT** repeatedly until the desired mode is signalled by the corresponding indicator. The mode sequence is STB --> TV --> VCR --> DVD --> AMP.

15.2 Volume and mute control assignment

15.2.1 Default volume and mute control assignment

For each mode, you can select the device of your audio/video set-up to which volume and mute control is assigned.

When in **STB** mode, the volume functions (◀+, ▶-, and MUTE keys) can be controlled through your TV set, amplifier, or digital receiver. By default, volume control is performed through a Philips brand TV set.



When in **TV**, **VCR** or **DVD** mode, the volume functions (◀+, ▶-, and MUTE keys) can be controlled through your TV set or amplifier. By default, volume control is performed through a Philips brand TV set.

When in **AMP** mode, the volume functions (◀+, ▶-, and MUTE keys) can be controlled through a Philips brand amplifier only.

15.2.2 Changing the volume and mute control assignment

The procedures below assume you start from default settings.

Your Digital Receiver (STB), TV, VCR or DVD audio outputs are “all” connected to your amplifier

We advise you to assign volume control to your amplifier for all modes (STB, TV, VCR, and DVD). To do so:

- Press **SELECT** repeatedly to select the **AMP** mode.
- Simultaneously press keys 1 and 3 until the AMP indicator turns on then release these keys.
- Enter code 993. The indicator surrounding the ⏻ key blinks once after each entry.
- Press the MUTE key. The indicator surrounding the ⏻ key blinks twice.

From then on, whatever mode you are in, the AMP indicator turns on each time you press one of the (◀+, ▶-, and MUTE keys).

When controlling the volume, make sure the source selector of your amplifier is properly set (refer to your amplifier user manual for source selection).

Your TV set is only fitted with SCART connectors (no HDMI, no DVI and no YPbPr)

We advise you to assign volume control to your digital receiver for the STB mode. To do so:

- Press **SELECT** repeatedly to select the **STB** mode.
- Simultaneously press keys 1 and 3 until the STB indicator turns on then release the keys.
- Enter code 993. The indicator surrounding the ⏻ key blinks once after each digit entry.
- Press the ▶- key. The indicator surrounding the ⏻ key blinks twice.

You have made several setting changes and you want to restore the default volume control assignment settings (see table in next paragraph)

Default volume control assignment means:



in **TV** mode, volume control is performed through a Philips brand TV set

in **VCR** mode, volume control is performed through a Philips brand TV set

in **DVD** mode, volume control is performed through a Philips brand TV set

in **AMP** mode, volume control is performed through a Philips brand amplifier only.




To restore default settings:


- Simultaneously press keys 1 and 3 until the indicator surrounding the  key blinks twice then release these keys.
- Enter code 981. The indicator surrounding the  key blinks twice.

15.3 Changing the brand setting of your remote control for your TV, VCR, DVD or Amplifier

By default at first power up or at first installation, your universal remote control is pre-set to control your Digital Receiver as well as most Philips brand audio/video devices.

If you have other brands of devices, or if the presets do not enable you to control your Philips device, please follow the procedure below.

- 1 Choose one brand code, made up of 4 digits, from the code list at the end of this manual. (If several codes are possible, go through this procedure with the first code and try your remote control. If you are not successful, repeat the procedure with the second code, and so on).
- 2 Press the SELECT key repeatedly to choose the mode corresponding to the type of device you want to set up (TV, VCR, DVD or Amp/Tuner).
- 3 Simultaneously press digits 1 and 3 until the indicator surrounding the  key blinks twice then release these keys.
- 4 Enter the 4 digit code corresponding to the device brand you have chosen. The indicator surrounding the  key blinks once after each one of the first three entries. The indicator surrounding the  key blinks twice after the fourth entry.

If an invalid code has been entered, the indicator surrounding the  key blinks once only. Restart from step 1.

		Default setting			Your personal setting		
		Brand	Code	Volume control performed through	Brand	Code	Volume control performed through
M O D E	TV set	Philips	0556	TV			
	Video rec.	Philips	0081	TV			
	DVD	Philips	0539	TV			
	Amp.	Philips	1742	AMP			
	STB	STB 1		TV	STB (1 or 2)		

We advise you to fill in the table below to keep a record of your personal remote control settings. This will be helpful the day you have to replace the remote control batteries (see Note 1 below).

1 Battery change

If the battery change takes more than 1 minute the remote control may return to the Philips default settings. Therefore you have to proceed with a new setting of your remote control with the help of the table above for your non-Philips branded devices.

2 Disclaimer

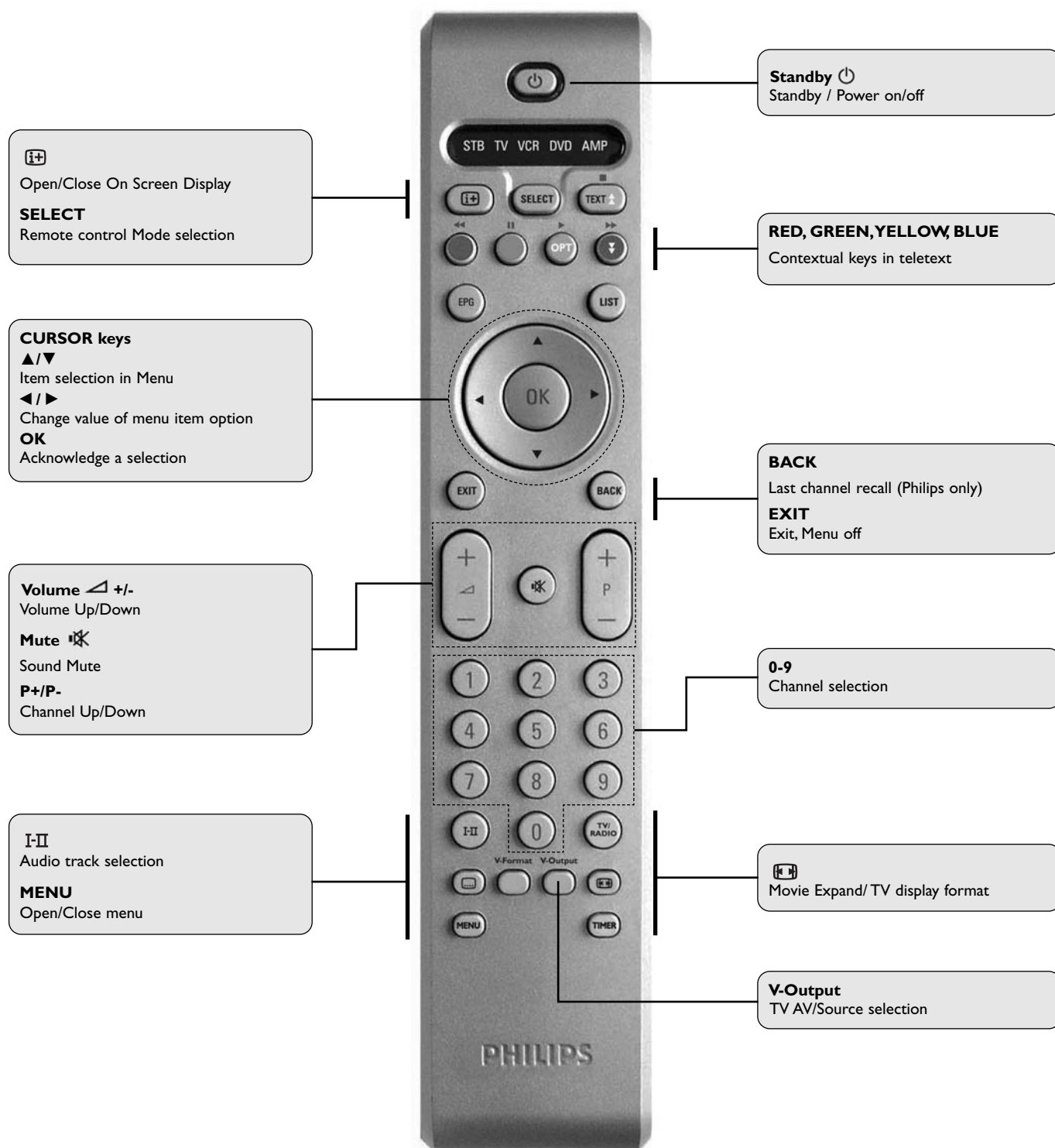
All manufacturers are concerned about the constant improvement of their products. Although your remote control is compatible with most of the equipment of the following list, Philips cannot guarantee its operation with the complete range of products on the market.

15.4 Controlling your TV, Video Recorder, DVD and amplifier

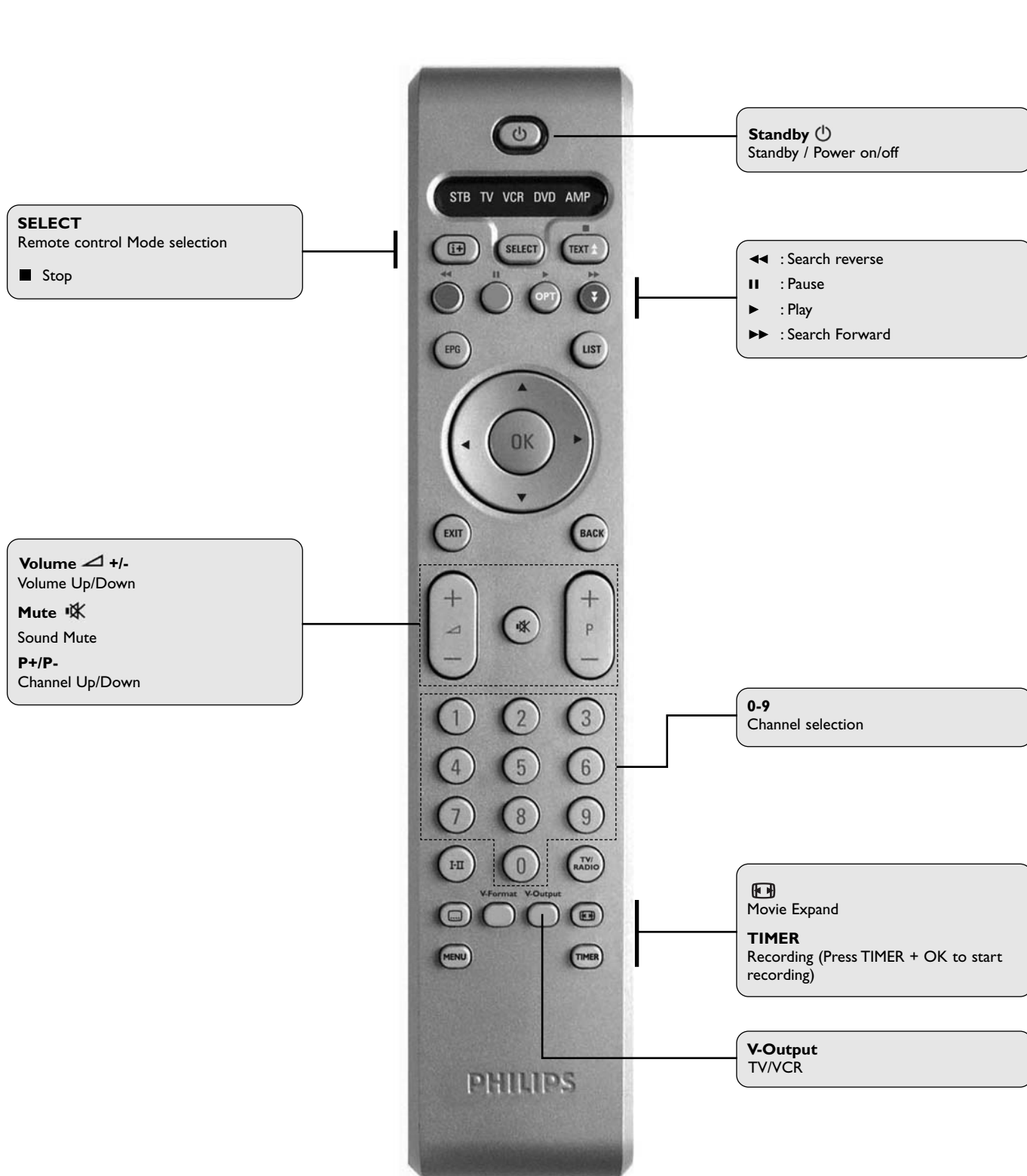
Some of the functions described in the next pages may not be available or have the same behaviour for all brands of the same devices.

15.4.1 Using the remote control when the TV mode is selected

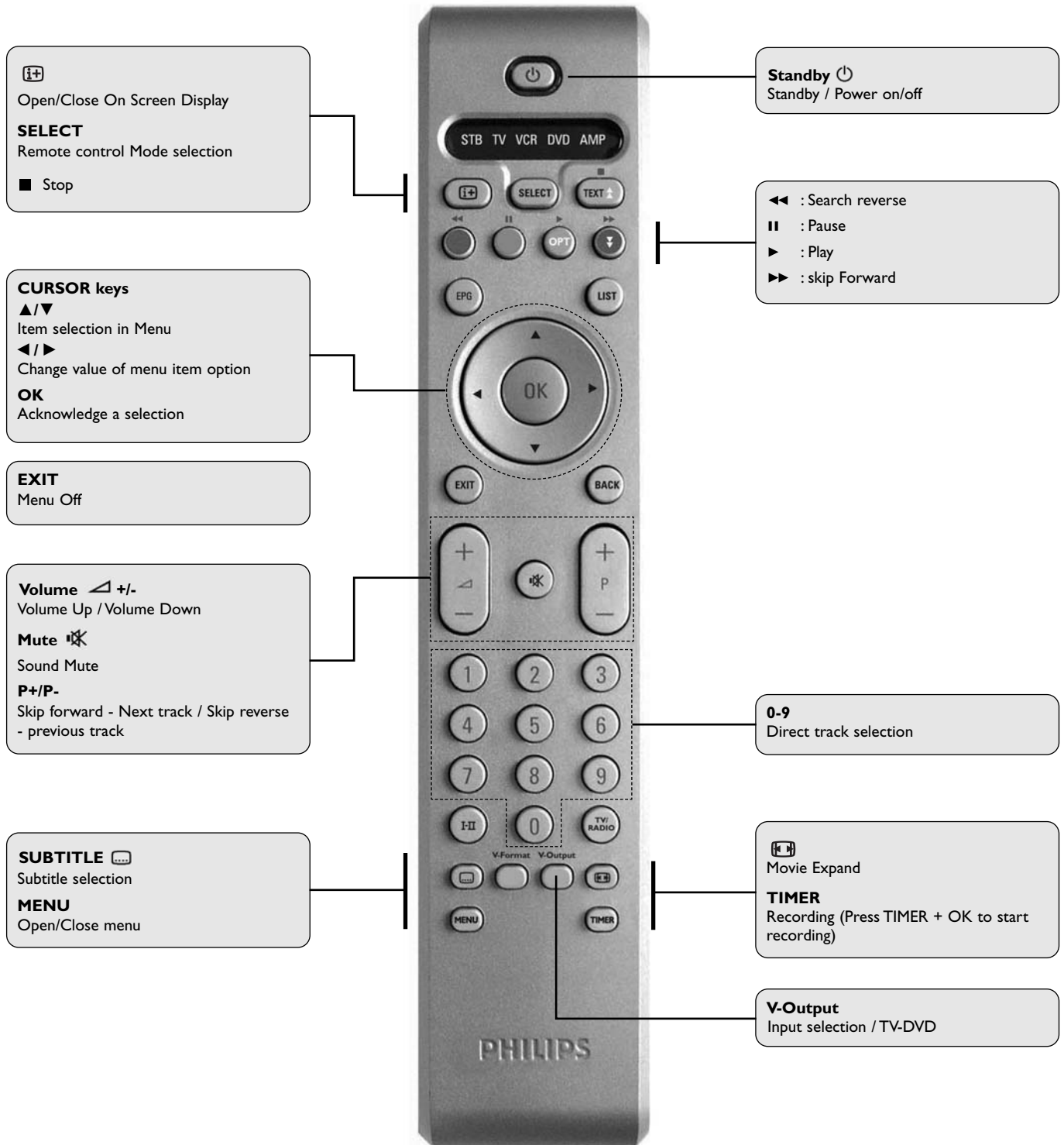
EN



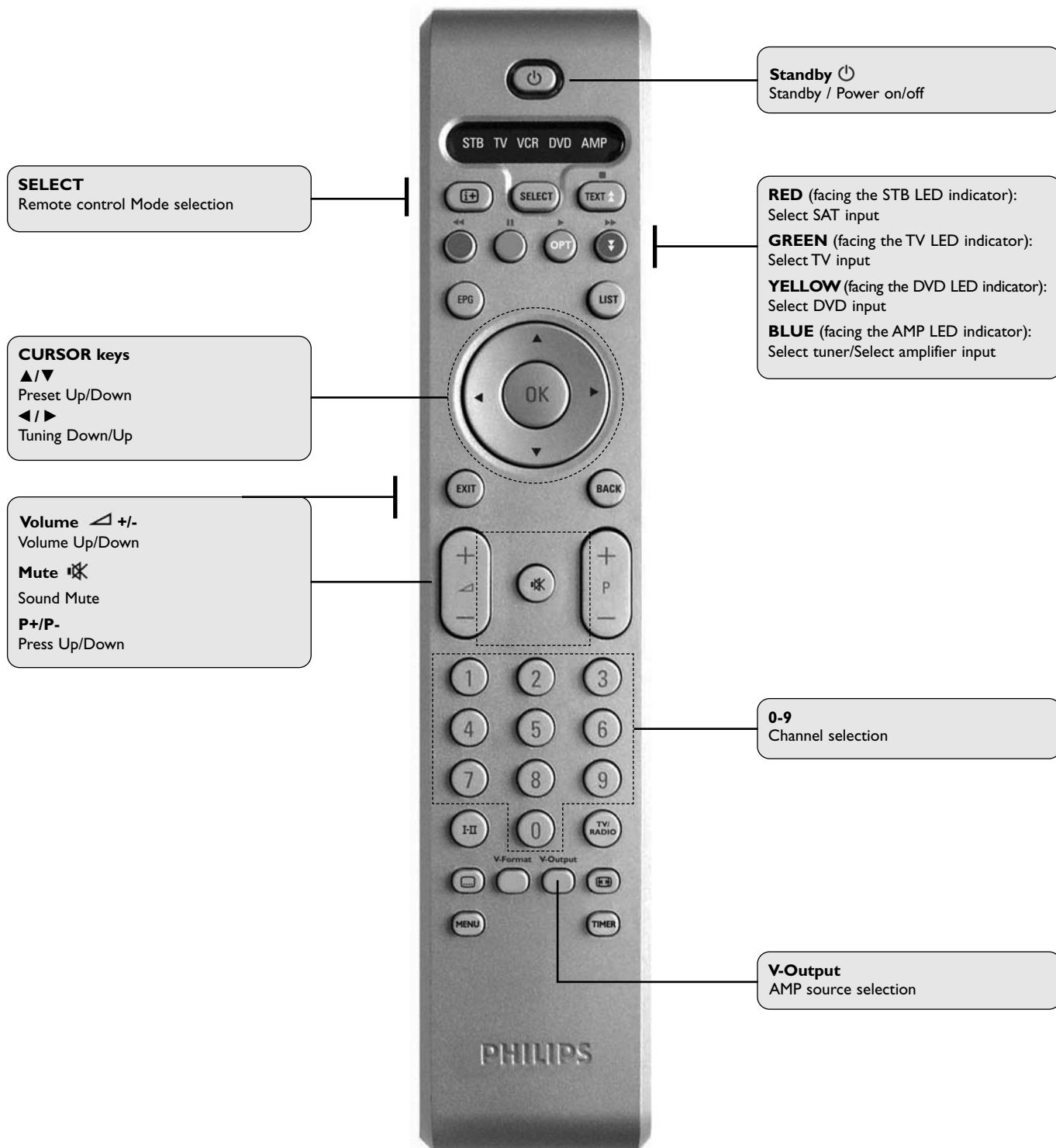
15.4.2 Using the remote control when the VCR mode is selected



15.4.3 Using the remote control when the DVD mode is selected



15.4.4 Using the remote control when the AMP mode (tuner/amplifier) is selected



16 Glossary

EN

Dolby Digital: Digital Audio Compressed (5.1 Channel)

DVI: Digital Video Interface

HD: High Definition

HDCP: High-bandwidth Digital-Content Protection

HDMI: High Definition Multimedia Interface

HDTV: High Definition TeleVision

HDTV label: indicates compliance of a receiver with the minimum requirements for HDTV

HD-Ready label: indicates compliance of a TV set with the minimum requirements for HDTV

Lip Synchronisation: setting is used to synchronize sound and pictures in case a delay is experienced, in particular if the sound of speech does not match lip movements.

OSD: On-Screen Display

Password: 4-digit code used to lock channels and features of the receiver

PIN-Code: 4-digit code used to prevent access to inappropriate Premiere programmes (parental control)

SD: Standard Definition

SDTV: Standard Definition TeleVision

SPDIF: Sony/Philips Digital audio InterFace

YPbPr: component video signal (Y for luminance, PbPr for colour)



SCART Loop-through: function allowing automatic signal by-pass for playback from a VCR or DVD player/recorder connected to SCART EXT2

17 Troubleshooting

EN

Please be aware that new software may change the functionality of your receiver.

Should you experience any difficulties with the operation of the receiver, please consult the relevant section of this manual, including this Troubleshooting section. If the problem cannot be solved, call your dealer or a customer service adviser.

Symptom	Cause	Remedy
The LED on the front panel does not light up.	Faulty power supply	Check that the power cord with AC adapter is correctly connected. Disconnect this cord and reconnect it to ensure it is in place. Check that the power is available at the wall socket.
The welcome screen does not display at first installation.	Faulty connections	Check connections at your TV set (HDMI, DVI or YPbPr connection, and SCART connection).
	Incorrect TV source selection	Select the appropriate TV source (refer to your TV user manual).
	The selected receiver output does not match the connection to your TV set.	Press V-Output once to check the current receiver output setting. If it does not correspond to the actual connection to your TV set, press V-Output repeatedly until the setting and connection match.
No sound or picture but the front panel displays the time or 	Receiver in Standby	Press P+ , P- , TV/RADIO , or any number key once or twice to wake up the receiver.
No sound or picture but the front panel LED is lit in red.	Receiver in "low power"	Press P+ , P- , TV/RADIO , on the front panel.
No sound or picture but the front panel LED is lit in orange.	Receiver is in standby	Press P+ , P- , or any number key of the remote control.
No picture no sound but the front panel displays a channel number and name.	Poor signal	Check the connections at the wall socket and receiver. Check signal quality using the Scan item of the Premiere menu .
	The selected output does not match the connection to your TV set.	Press V-Output once to check the current receiver output setting. If it does not correspond to the actual connection to your TV set, press V-Output repeatedly until the setting and connection match.
	Poor SCART connections	Check the SCART connections.
The remote control does not operate your receiver.		Make sure the receiver is on. Make sure you are pointing the remote control at the receiver front panel. Check the batteries in your remote control. Check that the receiver and remote control configurations match: refer to paragraph 14.2.
	You have changed your remote control batteries.	Try setting your remote control again as described in paragraph 14.2.
The picture appears frozen and the remote control does not operate your receiver.		Press  on the receiver front panel for at least 5 seconds. Your settings will not be lost. Release the button and wait for the LED to turn either red for "low power", orange for standby, or green for TV mode respectively. You can then continue with normal operation.
On-screen display working but there is no reception		Check all connections and cables.
Intermittent reception	Poor reception/signal	Check all connections and cable.
	Faulty connections	Check signal quality from the Scan item of the Premiere menu .
Sound not synchronized with pictures when using digital audio connection	You use digital audio connection option A or B as described in 7.1.3.	Change sound-pictures synchronisation (Lip Synchronisation) as described in 9.6.

Symptom	Cause	Remedy
The message "Note 3 - Insert the smart card in the direction of the arrow with the golden chip facing up/down" is displayed.	The smart card was inserted incorrectly.	Insert the smart card into the receiver as described in the user manual.
The message "Note 9 - Your smart card subscription is no longer active" is displayed.	Your subscription has not yet been re-activated.	If you are subscribing for the first time, contact the Premiere customer service so that your subscription can be activated. To do this, insert the smart card into the digital receiver. Select a channel to which you are subscribed and wait for around 60 minutes to obtain the activation.
	As the subscriber programme has not been watched for some time, your subscription could not be re-activated.	If you already subscribe to Premiere, insert the smart card into the digital receiver. Select a channel to which you are subscribed and wait for around 60 minutes to obtain the reactivation.
The message "Note 10 - Your smart card does not allow you to watch this programme" is displayed.	Your subscription has not yet been re-activated.	If you are subscribing for the first time, contact the Premiere customer service so that your subscription can be activated. To do this, insert the smart card into the digital receiver. Select a channel to which you are subscribed and wait for around 60 minutes to obtain the activation.
	You have not taken up a subscription to this channel.	Check that you have taken up a subscription to this channel. Otherwise, contact the Premiere hotline to subscribe to this channel.
The picture is not sharp and on-screen text is difficult to read when playing back a DVD or VCR recording.	TV SCART output format not set to RGB	Change the TV SCART Output setting to RGB from the System Settings screen. Refer to paragraph 13.5.2.
	TV SCART not connected to the RGB capable SCART socket of your TV set.	Refer to your TV user manual.
	Inappropriate SCART cable	Use the SCART cable supplied with your receiver.
The picture is not sharp when watching HDTV content.	You use digital audio connection option A or B as described in 7.1.3.	Press V-Output once to check the current receiver output setting. If it does not correspond to the actual connection to your TV set, press V-Output repeatedly until the setting and connection match.
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 screen format setting, following the information in paragraph 13.5.1. If you have a wide screen TV, you may also need to check the settings on your TV.
Even if you use the number keys, you cannot access a particular channel.	The parental lock has been activated on this channel and a message asks for your password.	Enter your password to access the channel or remove it as a locked channel.
	Your subscription rights do not include this channel	Select another channel. There is no channel corresponding to this number.
You set a timer but did not record what you wanted.	The recorder was set incorrectly.	Make sure that your recorder is set for the same time as your Digital-Receiver.
	The recorder was not programmed.	Make sure you have programmed your recorder.
The order of the channels has changed.	They have been re-arranged as described in paragraph 10.2.2.	Refer to this paragraph to change the order again.
You have forgotten your password		From the main menu, press 5 to go to the For Parents screen. When prompted, enter the following 4-digit code: 1911. Then enter 1234 as your current password, and proceed as described in paragraph 13.4.
You have forgotten your KDG or Premiere PIN-Code.		Either call the Premiere call center: 0180/512 00 00 for Germany 01/49166 400 for Austria

For problems that are not related to Premiere programmes or the Premiere smart card, but rather due to your receiver, call the Philips call centre on 0180/500 75 31* for Germany or 0820 400 039* for Austria.

*open 7 days from 08.00 to 23.00 - 0.12 Euros/min

18 Technical specifications

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

General

High Definition provides the ultimate viewing experience and will roll out across Europe. The KDG cable network is using the efficient MPEG4 (part 10) compression technology for the distribution, on cable network, of HDTV programs that may include Premiere Pay TV programs.

Decoding

- MPEG-2
- DVB compliant up to MP@HL
- MPEG-4 part 10 (1920x1080 interlaced)
- DVB compliant up to HP@L4
- Video bit rate up to 80 Mbit/sec
- Video format: 4:3 and 16:9
- Output resolution up to 1920x1080 interlaced

Copy protection

- HDCP on HDMI interface
- Macrovision on Scart's

Audio decoding

- MPEG1 layer I / II
- Dolby Digital
- Prepared for Dolby Digital Plus
- Multi-channel down-mixing

Ease of Installation

- Automatic program installation
- Automatic program list update
- Program bouquet auto installation including Premiere (network dependant)
- Up to 1000 channels

Ease of Use

- 13 digit display
- Easy bouquet program browsing
- Program editing for personalised installation (delete, add, move) for 99 programs in Main TV list
- 99 programs in Main Radio list
- Full remote controlled
- EPG list per channel
- Automatic recording via:
 - Timer programming in EPG
 - And "Easy recording" for Philips VCR and DVD- RW with:
 - Either "Prepare Record"
 - Or "Record link"
- Now & Next program monitoring
- 5 in 1 multi-brand remote control

The product complies with the following European Directives:



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

Operation / Features

- Reception of High definition and standard definition digital Pay-TV programs
- TV & Radio modes
- Premiere Pay TV reception
- Subtitles
- Integrated Teletext decoder
- Parental lock with PIN code
- Menu controlled installation and operation using On Screen Display
- 8 event Timers / Reminders
- Automatic VCR play back
- EXT 2 to EXT 1TV RGB by-pass
- Software upgrade via:
 - Cable network
 - Serial interface (servicing only)
- ECO mode < 1 Watt power consumption
- HDMI video & audio digital output
- DVI compatible HDMI output for video
- YPbPr component HDTV video output
- Dolby Digital audio output

Application system resources

Processor	266 MHz
SDRAM for System	64 MB
SDRAM for Audio/Video/ Graphics	64 MB
Flash - Data/Code	16 MB
EEPROM	32 kB

Reception-Demodulation

- Demodulation type: QAM
- Constellation: 16, 32, 64, 128, 256
- Symbol rate range (MS/s): 3 to 6.9
- Input frequency range (MHz): 47 - 862
- Input level range (dBμV):
 - 44 to 75 in 64 QAM
 - 51 to 75 in 256 QAM
- Return loss (dB) = 10
- Noise figure (dB) = 9.5
- RF loop-through (MHz) 47 to 862 MHz

De-scrambling

- Embedded
 - Type: DVB compliant
- Smart card reader: 1 for CA
- CA system: Nagravision
- Note: A subscription is required to watch Pay-TV programmes.

Connections

- 1x RF in type IEC 169-2 female
- 1x RF out type IEC 169-2 male
- 1 x HDMI version 1.1
- 1 x YpbPr according to SMPTE / ARIB-BS4
- 1 x EXT1 SCART (TV)
 - Output: CVBS, volume controlled audio L/R, RGB/FB, Slow blanking
- 1 x EXT2 SCART (VCR-DVD-recorder)
 - Input: CVBS, Slow blanking, Audio L/R, RGB / Fast blanking
 - Output: CVBS, Audio L/R, Slow blanking during timer if "Prepare Record" mode is activated
- 2 x Audio CINCH:
 - Output: volume controlled analogue audio L/R
 - Coaxial SPDIF: Dolby Digital or PCM
 - Optical SPDIF: Dolby Digital or PCM
- Other digital interfaces:
 - Serial USB 1.1

Accessories

- Remote control type RC4338
- 1x HDMI cable (2m)
- User manual
- Quick start guide
- Worldwide Guarantee booklet
- Batteries: 2 x 1.5V type AA/R06
- Mains cord (2 m)

Miscellaneous

- Temperature range (°C)
 - Operating +5 to 45
 - Storage -10 to +70
- Mains: 230 V ~ +/-10% 50 Hz
- Power consumption: 15W
- Standby consumption: 14,5W 2.7 Kg
- Weight
- Including packaging tbd Kg tbc
- Dimensions:
 - Product (mm) 360 x 220 x 55
 - Packaging (mm) 495 x 290 x 120

Multi-language

- Menu
 - English, German
- User Manual
 - English, German

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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

Dolby® and the double D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.

Dolby Digital® is registered trademark of Dolby Laboratories Licensing Corporation.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Code List für verschieden Marken/Brand code list

Setup-Code für alle Verstärkermodelle (A) Setup Code For All Audio Amplifiers (A)

Bush	1301
Goodmans	1301, 1617
Lexia	1301
Limit	1408
MaXmann Electronics	1357
Minowa	1156
Mustek	1617
Optimus	0327
Pioneer	0327
RCA	0327
Red Star	1408
Redstar	1408
Reoc	1408
Roadstar	1301
Schneider	1156
Sony	0716
Synn	1408
TCM	1156
Tevion	1156
Thomson	1156
Yamaha	0381

Setup-Code für alle Audio Verst./Tuner-Modelle (R) Setup Code For All Audio Amp/Tuners (R)

AEG	1417
Aiwa	0148, 1432, 1668, 1415
Akai	0142, 0636, 1417
All-Tel	1417
Amstrad	0771
Anam	0636
Apex Digital	1284
Audiosonic	1416
Bang&Olufsen	0826
Basic Line	1581
Belson	1416
Binatone	1416
Bose	1382
Bush	0824
Cambridge Audio	1674
Carver	0387
CCE	1379
Centrex	1284
Centrum	1247
Clatronic	0824
Cosmotron	0824
Daewoo	1205, 1277, 1463
Dantax	0490, 1417
Denon	1131, 1387, 1487
Denver	1416
Digitrex	1284
DiK	0824
DK Digital	1447
DMTech	1666
Dual	1247, 1417, 1447, 1666
eBench	0771, 0824
Elta	0771, 0824, 1417
Eltax	1567
Ferguson	1181
Fisher	0387
Futronic	1351

Garrard	0490
Goodmans	0636, 0771, 0774, 0824, 1205, 1226, 1417, 1447, 1638
Grundig	0824, 1371, 1666
Grunkel	0771
Hanseatic	1417
Harman/Kardon	1331, 1337
Harwood	0771
HCM	1417
Hitachi	1226, 1371, 1581, 1828
Hitech	0771
Hoeher	1284
Inkel	0529
Integra	1347
Intersound	0771
JBL	1317
Jensen	0781
JVC	0101, 0491, 1227, 1401, 1522
Kenwood	0213, 1054, 1340, 1596, 1597
Kompernass	0824
Lenoxx	1638
Lenoxx Sound	1638
LG	1320, 1551
Lifetec	0824
LXI	0771
Magnat	1416, 1666
Magnum	1638
Marantz	1296, 1316
Matsui	0771, 0774, 0824
MBO	1379
Medion	0824, 1447
MEI	1417
Micromaxx	1447
Microstar	0824
Mustek	1379
Mx Onda	0771, 0824
NAD	0347, 0636
Nikkai	1416
Nikkei	0771
Onkyo	1325, 1347, 1558
Optimus	0213, 0771, 0781, 1050
Orion	0490
Palladium	0824, 1247, 1320, 1371, 1417, 1452
Panasonic	1315, 1335, 1545, 1790
Paramount Pictures	1247
Philips	1296, 1316, 1742
Phonotrend	0529
Pioneer	0213, 0316, 1050, 1211, 1311, 1486, 1683
Prima Electronic	0824
Proline	0824, 1284, 1417
Quelle	1205
Radionette	1320
RCA	1181
Recco	0824
Red Star	1416
Roadstar	0774, 0824, 1638
Rotel	0820
Samsung	1226, 1308, 1322, 1451
Sansui	0636, 1356
Sanyo	0387, 0771, 1828
Schneider	0771, 1205, 1226, 1247, 1417
SEG	1277, 1581
Sharp	0213, 1641
Sherman	1351
Sherwood	0529, 0680

Siemens	0636
Silva Schneider	1417, 1551
Sony	1185, 1285, 1468, 1481, 1585, 1685, 1785, 1786, 1885
Soundwave	0636
Stereophonics	1050
Sumida	0771
Sunfire	1340
Tandberg	1581
Tangent	1567
TCM	0824
Teac	0490, 0636, 0680, 1298, 1306, 1417, 1506, 1555, 1253, 1490
Technics	0235, 1335, 1336, 1545, 1790
Tevion	1416, 1452, 1638
Thomson	1181, 1381
Thorn	0771
Tokai	1417
Toshiba	1599
United	1417
Universum	0636, 0771, 0781, 0824, 1205, 1247, 1417, 1452, 1463, 1636
Venturer	1417
Vestel	1581
Victor	0101
Waitec	1379
Watson	0824
Welltech	0824
Wharfedale	1417
Xenius	1417
Yamaha	0203, 0213, 0739, 1303, 1358
Yukai	1379
Zenith	0771

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A.R. Systems	0401, 0482
Acura	0036
Admiral	0114, 0120, 0190, 0291, 0390
Adyson	0243, 0244
Agashi	0243, 0244
AGB	0543
Agef	0114
Aiko	0036, 0243, 0244, 0291
Aiwa	0728, 0732, 1943
Akai	0036, 0062, 0099, 0190, 0205, 0235, 0243, 0244, 0245, 0291, 0388, 0398, 0460, 0500, 0507, 0543, 0575, 0583, 0608, 0629, 0633, 0658, 0675, 0741, 0742, 0772, 1564
Akiba	0245, 0309, 0482
Akura	0036, 0245, 0291, 0309, 0439, 0695, 0741, 1064
Alaron	0243
Alba	0036, 0063, 0190, 0243, 0245, 0262, 0274, 0382, 0398, 0445, 0470, 0514, 0608, 0695, 0741, 1064
All-Tel	0892
Allorgan	0233, 0244
Amplivision	0244, 0397
Amstrad	0036, 0204, 0245, 0291, 0389, 0398, 0439, 0460, 0543, 0608, 0675, 1064
Anam	0036
Andersson	1190
Anex	0448
Anglo	0036, 0291
Anitech	0036, 0309
Ansonic	0036, 0131, 0319, 0397, 0695, 1464
Arcam	0243, 0244
Ardem	0741
Aristona	0583
ART	1064
ASA	0097, 0114, 0131

Asberg	0129
Asora	0036
Asuka	0244, 0245, 0291
Atlantic	0233, 0347
Audiosonic	0036, 0136, 0244, 0245, 0291, 0364, 0397, 0401, 0513, 0741, 0742
Audioton	0244, 0291, 0513
Audiovox	0478
Autovox	0114, 0233, 0244, 0274, 0571
Awa	0036, 0038, 0063, 0135, 0184, 0244, 0633
Axxent	0036
Baird	0099, 0100, 0220, 0235, 0244
Bang & Olufsen	0114, 0592
Barco	0407
Basic Line	0036, 0244, 0245, 0309, 0366, 0401, 0482, 0583, 0695, 1064, 1190
Baur	0388, 0539, 0562, 0571
Bazin	0244
Beaumark	0205
Beko	0397, 0445, 0513, 0633, 0741, 0742, 0835, 1064
Beon	0445
Berthen	0695
Best	0364, 0448
Bestar	0397, 0401
Bestar-Daewoo	0401
Binatone	0244
Black Diamond	0641, 1064, 1936
Black Panther	0129
Blaupunkt	0063, 0197, 0222, 0482, 0562
Blue Sky	0245, 0309, 0482, 0514, 0526, 0583, 0695, 0741, 0742, 0835, 1064
Blue Star	0309
Bondstec	0274
Boots	0036, 0244
Bosch	0347
BPL	0309
Brandt	0136, 0314, 0362, 0587, 0652, 0741
Brinkmann	0445, 0513, 0695
Brionvega	0114, 0389
Britannia	0243, 0244
Bruns	0114
BTC	0245
Bush	0036, 0063, 0235, 0244, 0245, 0262, 0291, 0309, 0382, 0388, 0390, 0398, 0401, 0514, 0583, 0608, 0641, 0644, 0688, 0695, 0741, 1064, 1927
Canton	0245
Carad	0637, 0695, 1064
Carena	0482
Carrefour	0063, 0097
Carver	0197
Cascade	0036
Centrum	1064
Century	0114, 0265, 0274
CGE	0274, 0397, 0445
Cimline	0036, 0245
Cineral	0478
Citizen	0087
City	0036
Clarivox	0097, 0364
Clatronic	0036, 0129, 0244, 0245, 0274, 0291, 0347, 0397, 0398, 0606, 0633, 0741
Clayton	1064
CMS	0243
CMS Hightec	0244
Condor	0036, 0274, 0291, 0309, 0347, 0397, 0438, 0445
Conrac	0835
Contec	0036, 0063, 0184, 0243
Continental Edison	0136, 0314, 0514
Cosmel	0364
Crosley	0114, 0274
Crown	0036, 0235, 0366, 0397, 0439, 0445, 0448, 0513, 0514, 0606, 0633, 0741, 0742, 1064

CS Electronics	0243, 0245, 0274
CTC	0274
Curtis Mathes	0087
Cybertron	0245
D-Vision	0583
Daewoo	0036, 0244, 0245, 0401, 0478, 0526, 0583, 0661, 0688, 0892, 0907, 1936
Dainichi	0243, 0245
Dansai	0036, 0062, 0063, 0235, 0243
Dansette	0439
Dantax	0741, 0742
Dayton	0036
Daytron	0401
De Graaf	0235, 0390, 0575
Decca	0099, 0244, 0543, 0648
Dell	1481
Denko	0291
Denver	0614
DER	0220
Desmet	0036, 0114, 0347
Digiline	0132, 0695
Digitor	1751
Digix	0907
Dixi	0036, 0114
Domeos	0695
Domland	0421
Dream Vision	1731
Dual	0244, 0286, 0379, 0421, 0558, 0571, 1164
Dual Tec	0244
Dumont	0097, 0114, 0129
Durabrand	1464
Dynatron	0039
E-Elite	0245
Edison-Minerva	0514
Elbe	0244, 0265, 0286, 0319, 0389, 0438, 0462, 0543, 0637, 0657
Elbe-Sharp	0543
Electrograph	1782
Elekta	0291, 0309
Elin	0036, 0131, 0388, 0575
Elite	0245, 0347
Elman	0129
Elta	0036, 0291
Emco	0274
Emerson	0097, 0114, 0204, 0205, 0274, 0309, 0347, 0388, 0397, 0398, 0513, 0741, 1936
Emperor	0309
Erres	0039
ESA	0839
ESC	0244
Etron	0036
Eurofeel	0244, 0291
Euroman	0243, 0244, 0291, 0448
Europhon	0129, 0244, 0543
Evolution	1783
Expert	0233
Exquisit	0274
Fenner	0036, 0401
Ferguson	0100, 0136, 0220, 0222, 0265, 0314, 0362, 0470, 0575, 0587, 0652, 1064
Fidelity	0190, 0220, 0243, 0291, 0388, 0390, 0398, 0439, 0539, 0558, 0571
Filsai	0244
Finlandia	0099, 0190, 0235, 0373, 0390, 0575
Finlux	0097, 0099, 0114, 0129, 0131, 0132, 0244, 0373, 0438, 0500, 0507, 0519, 0543, 0648, 0656, 0658, 0741, 0742, 0835, 0036, 0099, 0235, 0243, 0244, 0262, 0265, 0274, 0348, 0388, 0401, 0438, 0558, 0571, 0583, 0695, 0741, 0835, 1064
Fisher	0063, 0072, 0099, 0114, 0131, 0184, 0235, 0244, 0397, 0571, 0582
Flint	0099, 0245, 0291, 0482, 0637

Forgestone	0220
Formenti	0114, 0243, 0347
Formenti-Phoenix	0243, 0347
Fortress	0120
Fraba	0397
Friac	0036, 0129, 0397, 0448, 0526, 0637
Frontech	0036, 0190, 0244, 0274, 0291, 0390
Fujimaro	0892
Fujitsu	0036, 0099, 0233, 0244, 0286, 0710, 0880
Fujitsu General	0036, 0233, 0244, 0710
Funai	0291, 0695
Galaxis	0397
Gateway	1782
GBC	0036, 0245, 0401
GE	0120, 0205, 0309, 0478, 0652, 1481
GEC	0099, 0190, 0244, 0388, 0543
Geloso	0036, 0390, 0401
General Technic	0036
Genesis	0036
Genexxa	0036, 0190, 0245
Gericom	0835, 0892, 0907
Goldfunk	0695
GoldHand	0243
GoldStar	0136, 0190, 0205, 0243, 0244, 0274, 0317, 0388, 0390, 0404, 0633, 0741, 0742
Gooding	0514
Goodmans	0036, 0062, 0063, 0099, 0244, 0245, 0262, 0291, 0362, 0398, 0401, 0507, 0514, 0526, 0543, 0583, 0587, 0606, 0657, 0661, 0688, 0695, 0741, 0835, 0907, 1064, 1190, 1927, 1936
Gorenje	0397, 0448
GPM	0245
Gradiente	0197
Graetz	0190, 0366, 0388, 0398, 0514, 0741
Gran Prix	0675
Granada	0072, 0099, 0135, 0190, 0235, 0244, 0253, 0366, 0383, 0390, 0500, 0543, 0575, 0587
Grandin	0036, 0190, 0309, 0347, 0401, 0482, 0606, 0637, 0695, 0741, 0742, 0892, 0907, 1064
Grundig	0063, 0097, 0222, 0470, 0514, 0562, 0583, 0614, 0657, 0733
H&B	0835
Halifax	0244
Hampton	0243, 0244
Hanimex	0245, 1935
Hanseatic	0036, 0114, 0244, 0309, 0347, 0388, 0404, 0421, 0526, 0571, 0583, 0661, 0688, 0741, 0835
Hantarex	0036, 0129, 0265, 0543, 0892
Harsper	0892
Harwood	0036, 0439, 0514
Havermy	0120
HCM	0036, 0244, 0245, 0291, 0309, 0439, 0445
Hema	0036, 0244
Hemmermann	0571
Higashi	0243
Hikona	0245
Hinari	0036, 0063, 0245, 0262, 0291, 0382, 1935
Hisawa	0245, 0309, 0482, 0637, 0741
Hisense	0535, 0583
Hit	0114
Hitachi	0063, 0071, 0099, 0132, 0135, 0136, 0190, 0221, 0244, 0383, 0390, 0500, 0507, 0508, 0519, 0526, 0543, 0575, 0605, 0656, 0661, 0746, 0771, 0911, 1064, 1072, 1164, 1252, 1508, 1603, 0751
Hitachi Fujian	0135
Hitsu	0036, 0245, 0482, 0637
HMV	0114
Hoehner	0741, 0892
Home Electronics	0633
Hornophon	0039
Hoshai	0309
Huanyu	0243, 0401

Hugoson	0917
Hyper	0036, 0243, 0244, 0274
Hypson	0291, 0309, 0482, 0648, 0695, 0741, 0742, 1064
Hyundai	0892, 1179
ICE	0243, 0244, 0245, 0291, 0398
ICeS	0243, 0245
Imperial	0274, 0397, 0445, 0657
InFocus	0779
Ingelen	0190, 0514, 0637, 0741
Ingersoll	0036
Inno Hit	0036, 0099, 0129, 0244, 0274, 0309, 0317, 0543, 1190
Innowert	0892
Interbuy	0274, 0291
Interfunk	0039, 0114, 0190, 0274, 0302, 0388, 0539
Internal	1936
Intervision	0036, 0129, 0244, 0245, 0274, 0291, 0309, 0404, 0421, 0482, 0513, 0514
Irradio	0245, 0274, 0317, 0398
Isukai	0245, 0309, 0482
ITC	0244, 0347
ITS	0243, 0291, 0398
ITT	0190, 0220, 0235, 0366, 0373, 0388, 0500, 0507, 0571, 0575, 0637
ITT Nokia	0190, 0235, 0366, 0373, 0388, 0500, 0507, 0575, 0633, 0637
ITV	0291, 0401
Jean	0063
JMB	0470, 0526, 0583, 0661
Jubilee	0583
JVC	0063, 0120, 0220, 0245, 0398, 0445, 0633, 0677, 0680, 0710
Kaisui	0036, 0243, 0244, 0245, 0309, 0482
Kamp	0243
Kapsch	0131, 0190, 0233, 0388
Karcher	0291, 0309, 0448, 0633, 0637, 0741
Kathrein	0583
Kawa	0398
KB Aristocrat	0190
Kendo	0129, 0262, 0274, 0389, 0438, 0637, 1464
Kennedy	0233, 0462
Kennex	1064
Kingsley	0243
Kioto	0733
Kiton	0695
Kneissel	0265, 0286, 0319, 0389, 0401, 0438, 0462, 0526, 0583, 0637
Kolster	0129, 0274
Konka	0245, 0398, 0445, 0614, 0741
Kontakt	0514
Korting	0114, 0347, 0448
Koyoda	0036
Kraking	0265
Kriesler	0039
KTV	0244
Kyoshu	0439, 0445
Kyoto	0190, 0243, 0244
L&S Electronic	0741, 0835
LaSAT	0513
Leader	0036
Lemair	0438
Lenco	0401
Leyco	0099, 0291, 0606
LG	0205, 0583, 0741, 0742, 1175, 1664, 0052
Liesenkotter	0039
Lifetec	0245, 0401, 0695, 0741, 1064, 1164
Local India TV	0291, 0398, 0629
Lodos	1064
Loewe	0114, 0319, 0539, 0543, 0660, 0682
Logik	0038, 0220, 0907
Logix	0695
Luma	0233, 0286, 0389, 0390, 1064

Lumatron	0244
Lux May	0036, 0608
Luxman	0606
Luxor	0190, 0221, 0235, 0244, 0317, 0383, 0388, 0390, 0500, 0507, 0575, 0658, 1064, 1190
M Electronic	0036, 0131, 0132, 0136, 0190, 0244, 0314, 0373, 0401, 0507
Magnadyne	0114, 0129, 0274, 0543, 0571
Magnafon	0129, 0243, 0543
Magnavox	0063, 1481
Magnum	0675, 0741, 0742
Manesth	0062, 0244, 0262, 0291, 0347
Manhattan	0695, 1064
Marantz	0439, 0583, 1481
Marelli	0114
Mark	0244, 0741, 0742
Master's	0526
Masuda	0036, 0245
Matsui	0036, 0038, 0062, 0063, 0099, 0204, 0222, 0235, 0244, 0262, 0362, 0382, 0390, 0398, 0460, 0470, 0482, 0514, 0543, 0571, 0583, 0606, 0656, 0741, 1064
Maxent	1782
Mediator	0039
Medion	0272, 0539, 0583, 0695, 0741, 0835, 0907, 1064, 1164, 1464, 1927
Megas	0637
MEI	1064
Meletronic	0036, 0131, 0132, 0190, 0222, 0243, 0244, 0274, 0373, 0401, 0438, 0507, 0519, 0539, 0661, 0688, 0741
Memorex	0036, 0087, 0205, 1064
Memphis	0364
Mercury	0036
Metronic	0652
Metz	0114, 0302, 0394, 0415, 0474, 0562, 0614, 0695, 0773, 1190
MGA	0205
Micromaxx	0657, 0695, 0835, 1064
Microstar	0835
Minerva	0097, 0135, 0514, 0543, 0562
Minoka	0439
Mirror	1927
Mistral Electronics	0220
Mitsubishi	0063, 0114, 0120, 0135, 0205, 0539, 0562, 0583, 1064
Mivar	0243, 0244, 0317, 0318, 0319, 0543, 0636
Monaco	0036
MTC	0087, 0243, 0397, 0539
MTlogic	0741
Multibroadcast	0220
Multitec	0513, 0695, 1064
Multitech	0036, 0129, 0243, 0244, 0274, 0291, 0390, 0513
Murphy	0190, 0243
Musikland	0245, 0274
Myryad	0583
NAD	0205, 0388
Naiko	0633
Naonis	0390
NAT	0253
National	0253
NEC	0036, 0038, 0063, 0197, 0244, 0272, 0347, 0401, 0482, 0614, 0731, 0732, 1197, 1731, 1297
Neckermann	0114, 0274, 0347, 0390, 0397, 0438, 0445, 0583
NEI	0364, 0398
Neovia	0892
Nesco	0274
Network	0364
Neufunk	0245, 0583, 0637, 0741
New Tech	0244
Nicam	0571
Nicamagic	0243

Nikkai	0036, 0062, 0063, 0099, 0243, 0244, 0245, 0291, 0364
Nikko	0205
Noblisko	0097, 0129, 0243
Nokia	0190, 0235, 0347, 0366, 0373, 0388, 0401, 0500, 0507, 0575, 0633, 0637, 0658
Nordic	0244
Nordmende	0136, 0222, 0314, 0587, 0741
Novak	0039
Novatronic	0132, 0401, 0558
Oceanic	0190, 0235, 0388, 0500, 0575
Okano	0036, 0397
Omega	0291
Onimax	0741
Onwa	0129, 0245, 0398, 0460, 0608
Optimus	0193
Orion	0204, 0262, 0347, 0348, 0382, 0439, 0470, 0543, 0558, 0571, 0583, 0682, 0741, 0907, 1935, 1943
Online	0245
Ormond	0695, 1064
Orsowe	0543
Osaki	0099, 0244, 0245, 0291, 0382, 0401, 0439, 0583
Osio	0317
Oso	0245
Osume	0063, 0099, 0184, 0245
Otto Versand	0063, 0120, 0136, 0244, 0253, 0262, 0274, 0347, 0388, 0539, 0562, 0571, 0583
Pacific	0470, 0583, 0741, 1064, 1164
Pael	0243
Palladium	0274, 0390, 0397, 0438, 0445, 0657, 0682, 0741, 1164
Palsonic	0244, 0291, 0445
Panama	0244, 0274, 0291
Panasonic	0190, 0253, 0388, 0394, 0543, 0575, 0677, 0880, 1337, 1677
Panavision	0438
Pathe Cinema	0190, 0243, 0265, 0347
Pausa	0036
Penney	0087, 0205
Perdio	0099, 0190, 0243, 0309, 0347
Philco	0114, 0274, 0397, 0445
Philex	0220
Philips	0036, 0039, 0114, 0220, 0265, 0388, 0401, 0450, 0583, 0632, 0799, 1783, 1481
Phoenix	0114, 0243, 0347, 0513
Phonola	0039, 0114, 0220, 0243
Pilot	0733
Pioneer	0136, 0190, 0193, 0314, 0388, 0450, 0513, 0539, 0787
Pionier	0513
Plantron	0036
Playsonic	0244, 0366, 0741, 0742
Portland	0401
Powerpoint	0514
Prandoni-Prince	0388, 0390, 0543
Prima	0291, 0439
Prinston	1064
Prinz	0221, 0388, 0571
Profex	0036, 0190, 0388, 0390
Profi	0036
Profitronic	0129
Proline	0099, 0348, 0438, 0648, 0652, 0657, 0661, 1064
Prosonic	0244, 0606, 0695, 0741
Protech	0036, 0129, 0244, 0274, 0291, 0364, 0445, 0513, 0695, 1064
Proton	0205
ProVision	0583, 0741
Pye	0039, 0114, 0401, 0583
Quadral	0245
Quasar	0036, 0274, 0892
Quelle	0038, 0097, 0131, 0388, 0539, 0562, 0571, 0695, 1064

Questa	0063
Radialva	0245, 0364
Radiola	0039, 0244, 0583
Radiomarelli	0114, 0543
RadioShack	0205
Radiotone	0036, 0291, 0439, 0606, 0675, 0695, 1064
Rank Arena	0063
RBM	0097
RCA	0120, 0652, 1481
Rediffusion	0063, 0373, 0388, 0575
Reflex	0695, 1064
Relisys	0892
Reoc	0741
Rex	0190, 0233, 0286, 0291, 0390, 0438
RFT	0099, 0114, 0291
Roadstar	0036, 0245, 0291, 0309, 0445, 0695, 0741, 1064, 1927
Robotron	0114
Royal Lux	0362, 0439
Saba	0114, 0136, 0190, 0314, 0362, 0388, 0525, 0543, 0575, 0587, 0652, 0741
Saccs	0265
Sagem	0482, 0637
Saisho	0036, 0038, 0204, 0244, 0262, 0291, 0543, 0571
Saivod	0695, 1064, 1190
Sakai	0190
Salora	0190, 0221, 0235, 0317, 0383, 0388, 0390, 0507, 0543, 0575, 0648, 0658
Salsa	0362
Sambers	0129, 0543
Sampo	1782
Samsung	0036, 0087, 0099, 0190, 0205, 0235, 0243, 0244, 0291, 0317, 0397, 0509, 0583, 0614, 0645, 0671, 0709, 0745, 0839
Sandra	0243, 0244
Sansui	0682, 0733, 1564
Santon	0036
Sanyo	0038, 0063, 0072, 0099, 0131, 0135, 0184, 0197, 0235, 0243, 0244, 0366, 0397, 0571, 0582, 0731
SBR	0039, 0220, 0583
Schaub Lorenz	0388, 0401, 0513, 0575, 0633, 0741
Schneider	0039, 0097, 0190, 0244, 0245, 0274, 0286, 0379, 0388, 0398, 0421, 0571, 0583, 0675, 0695, 0741, 1064, 1164
Scotch	0205
Scotland	0190
Sears	0205
Seaway	0661
Seelver	1064
SEG	0036, 0063, 0129, 0243, 0244, 0245, 0291, 0389, 0514, 0661, 0695, 1064, 1190, 1464
SEI	0114, 0129, 0204, 0233, 0543, 0571
Sei-Sinudyne	0114, 0129, 0233, 0543, 0571
Seleco	0190, 0233, 0286, 0291, 0373, 0389, 0390, 0398, 0438, 0462
Sencora	0036
Sentra	0062
Serino	0120, 0482, 0637
Sharp	0063, 0120, 0184, 0220, 0283, 0518, 0543, 0845, 1190, 1220
Shivaki	0470
Siarem	0114, 0129, 0543
Siemens	0184, 0222, 0562
Siera	0039, 0583
Siesta	0397
Silva	0243, 0388, 0675
Silver	0063, 0388, 0742
SilverCrest	1064
Singer	0036, 0114, 0129, 0362, 0460, 0462, 1564
Sinudyne	0114, 0129, 0204, 0233, 0262, 0543, 0571
Skantic	0383
SKY	0907

Sliding	0892, 0907
SLX	0695
Smaragd	0514
Soemtron	0892
Solavox	0099, 0190, 0388, 0575
Sonawa	0245
Sonitron	0235, 0244, 0366, 0397
Sonoko	0036, 0309
Sonolor	0190, 0235, 0309, 0388, 0575
Sontec	0036, 0397
Sony	0038, 0063, 0120, 0129, 0184, 0197, 0380, 0861, 1532, 1678
Sound&Vision	0129, 0401
Soundesign	0205
Soundwave	0347, 0445, 0742
Spectra	0036
Ssangyong	0036
Standard	0036, 0244, 0245, 0347, 0401, 1064
Starlite	0036, 0291
Stenway	0245, 0309
Stern	0190, 0233, 0286, 0390, 0438
Strato	0036, 0291
Strong	1190
Sunkai	0348, 0382, 0482, 0514, 0637, 0892
Sunstar	0036, 0291, 0398, 0606
Superla	0543
SuperTech	0036, 0243, 0245
Supra	0036
Susumu	0245, 0314, 0362
SVA	0614, 0892
Swissline	0274
Sytong	0243
T+A	0474
Tandberg	0394
Tandy	0099, 0120, 0190, 0244, 0245
Tashiko	0063, 0190, 0243, 0244, 0390
Tatung	0038, 0099, 0244, 0543, 0648, 0656, 1783
TCL	1564
TCM	0741, 0835
Teac	0036, 0197, 0205, 0291, 0482, 0539, 0695, 0782, 1751
Tec	0036, 0244, 0274, 0286, 0364
Tech Line	0695, 1464
Technema	0347
Technics	0583, 0677
TechniSat	0583, 0682
Technisson	0741
Technosonic	0583
Techwood	1190
Tecnimagen	0583
Tedelex	0036, 0244, 1564
Telecor	0421
Telefunken	0100, 0136, 0314, 0362, 0373, 0513, 0525, 0587, 0652, 0741
Telemeister	0347
Telestar	0583, 0606
Teletech	0036, 0364, 0695, 1064
Teleton	0063, 0233, 0244, 0286, 0390
Televideon	0243, 0347
Tempest	0036
Tensai	0036, 0131, 0132, 0244, 0245, 0274, 0347, 0398, 0401, 0404, 0742, 1064
Tenson	0036, 0347
Tevion	0583, 0675, 0695, 0741, 0835, 1064, 1164
Texet	0036, 0243, 0244, 0245, 0401
Thomson	0136, 0314, 0362, 0587, 0652
Thorn	0062, 0063, 0099, 0100, 0131, 0136, 0220, 0265, 0362, 0388, 0526, 0539, 0562
Thorn-Ferguson	0100, 0220, 0265, 0526
TMK	0205
Tokai	0036, 0190, 0364, 0401, 0695, 1064
Tokaido	1064

Tokyo	0062
Tomashi	0245, 0309
Toshiba	0062, 0063, 0087, 0097, 0129, 0136, 0222, 0535, 0645, 0677, 0741, 0745, 1190, 1535
Towada	0244
Trans Continens	0244, 0695, 1064
TRANS-continents	0648, 0892
Transonic	0036
Trical	0184
Trident	0543
Tristar	0220, 0245
Triumph	0204, 0373, 0543, 0583
Tsoschi	0309
TVTEXT 95	0583
Uher	0233, 0347, 0401, 0445, 0507, 0513
Ultravox	0114, 0129, 0243, 0274
Unic Line	0482
United	0741, 0742, 1064, 1943
Universum	0036, 0038, 0063, 0097, 0131, 0132, 0184, 0197, 0204, 0244, 0274, 0291, 0317, 0373, 0388, 0389, 0397, 0438, 0445, 0448, 0500, 0507, 0519, 0539, 0562, 0571, 0645, 0658, 0695, 1064, 1190, 1464
Univox	0114, 0190, 0364
V2max	0892
V7 Videoseven	1782
V7Videoseven	0907
Vestel	0244, 0583, 0695, 1064, 1190
Videoccon	0535
Videologic	0243, 0245
Videologique	0245
Videosat	0274
Videotechnic	0244, 0347
Videoton	0383
Vidtech	0205
Viewsonic	1782, 0751
Vision	0244, 0347
Vistar	0233
Voxson	0114, 0190, 0390, 0445
Walham	0136, 0190, 0244, 0383, 0445, 0470, 0695, 1064
Wards	0087, 0193, 0205
Watson	0036, 0245, 0347, 0421, 0606, 0695, 1064, 1464
Watt Radio	0129, 0243, 0571
Wega	0063, 0114
Welltech	0741
Weltblick	0244, 0347
Westinghouse	0917
Wharfedale	0583
White Westinghouse	0243, 0347, 0364
Windsor	1064
Windstar	0309, 0364
Windy Sam	0583
World-of-Vision	0892, 0907, 0917
Xenius	0661, 0688
Yamaha	0677, 1603
Yamishi	0244, 0309, 0482
Yoko	0036, 0243, 0244, 0245, 0274, 0291, 0366, 0448
Zanela	0265
Zanussi	0233, 0291, 0390
Zenor	0366
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Setup Code For All VCRs (V)	
Accent	0099
Adyson	0099
Aiwa	0027, 0059, 0064, 0334, 0375, 0379, 0769, 1164
Akai	0047, 0068, 0133, 0267, 0342, 0375, 0379, 0669
Akiba	0099
Akura	0099
Alba	0027, 0047, 0099, 0108, 0305, 0342, 0375, 0379
Allstar	0108
Ambassador	0047
Amstrad	0027, 0099, 0305

Anam	0064, 0253, 0267
Anam National	0253
Anitech	0099
Ansonic	0027
Aristona	0108, 0173
ASA	0064, 0108
Asuka	0064, 0065
Audiosonic	0305
Audioton	0047
Audiovox	0808
AVP	0027, 0379
Awa	0070
Baird	0027, 0068, 0131, 0133
Bang&Olufsen	0526
Basic Line	0047, 0099, 0131, 0305
Beko	0131
Bell&Howell	0131
Bestar	0305
Black Diamond	0669
Black Panther	0305
Blaupunkt	0061, 0108, 0253
Blue Sky	0064, 0099, 0305, 0375, 0379, 0507, 0669, 1164
Bondstec	0047, 0099
Brandt	0068, 0347, 0348
Brandt Electronique	0068
Brinkmann	0375
Bush	0027, 0099, 0108, 0305, 0342, 0375, 0379, 0669, 0769
Carrefour	0072
Carver	0108
Casio	0027
Cathay	0305
Catron	0047
CGE	0027
Cimline	0099
Citizen	0064, 0305
Clatronic	0027, 0047, 0099
Colt	0099
Combitech	0379
Condor	0047, 0305
Craig	0064, 0074, 0099, 0267
Crown	0047, 0064, 0099, 0305, 0507
Cyrus	0108
Daewoo	0047, 0072, 0305, 0379, 0664, 0669, 0871
Dansai	0099, 0305
Dantax	0379
Daytron	0047
De Graaf	0069, 0075, 0108, 0131, 0193
Decca	0027, 0094, 0108, 0379
Deitron	0305
Denko	0099
Denon	0069
Diamant	0064
Dual	0027, 0068, 0108, 0305, 0375
Dumont	0027, 0108, 0131
Elbe	0065, 0305
Elcotech	0099
Elin	0267
Elsay	0099
Elta	0099, 0305
Emerson	0027, 0064, 0070, 0072, 0099, 0305, 0620, 0664
ESC	0047, 0267, 0305
Europhon	0047
Fast	0924
Fenner	0047
Ferguson	0027, 0068, 0305, 0347, 0348
Fidelity	0027, 0099, 0267, 0379, 0459
Finlandia	0027, 0064, 0069, 0070, 0075, 0108, 0131, 0133, 0193, 0253, 0411
Finlux	0027, 0069, 0108, 0131
Firstline	0064, 0070, 0072, 0099, 0305, 0375, 0507, 1164
Fisher	0047, 0074, 0131

Flint	0375
Frontech	0047, 0099
Funai	0027, 0620
Galaxis	0305
Garrard	0027
GE	0075, 0267, 0347
GEC	0108
General	0047
General Technic	0375
Genexxa	0131
Go Video	0459, 0647, 1164
GoldHand	0099
GoldStar	0064, 0507, 1164
Goodmans	0027, 0047, 0064, 0099, 0108, 0305, 0375, 0379, 0664, 0669, 0769
GPX	0064
Gradiente	0027
Graetz	0068, 0131, 0267
Granada	0027, 0064, 0069, 0075, 0108, 0131, 0253, 0267
Grandin	0027, 0064, 0099, 0305, 0769
Grundig	0061, 0099, 0108, 0253, 0347, 0374, 0375, 0376, 0379, 0769
Hanimex	0379
Hanseatic	0064, 0065, 0108
Hantor	0047
Harley Davidson	0027
Harman/Kardon	0065
Harwood	0099
HCM	0099
Hinari	0068, 0099, 0267, 0305, 0379
Hisawa	0379
Hischito	0072
Hitachi	0027, 0068, 0069, 0108, 0193, 0267, 0620
Hoeher	0305, 0669
Hornophon	0108
Hypson	0027, 0064, 0099, 0305, 0507
Imperial	0027
Ingersoll	0267
Inno Hit	0099
Interbuy	0099
Interfunk	0108, 0131
Internal	0305, 0664
International	0064, 0305, 0669
Intervision	0027, 0305
Irradio	0099, 0108
ITT	0068, 0131, 0133, 0267, 0411
ITT Nokia	0579
ITV	0047, 0064, 0305
ITV Videomaster	0047
JBL	0305
Jensen	0068
JMB	0375, 0379, 0769
Joyce	0027
JVC	0068, 0094, 0411
Kaisui	0099
Kambrook	0064
Karcher	0108, 0305, 0669
KEC	0064, 0305
Kendo	0099, 0133, 0305, 0342, 0375, 0669
Kenwood	0065, 0068, 0094
Kimari	0074
Kneissel	0064, 0305, 0375, 0379
Korpel	0099
Kuba Electronic	0074
Kyoto	0099
Lenco	0305
Leyco	0099
LG	0064, 0507, 1164
Lifetec	0375
Lloyd's	0027
Loewe	0064, 0108, 1589
Logik	0099, 0133, 0267

Lumatron	0620, 1164	Prosonic	0305
Lunatron	1164	Protech	0108
Lux May	0099	ProVision	0305
Luxor	0070, 0074, 0075, 0131, 0133, 0342	Pye	0108
LXI	0064	Quasar	0305
M Electronic	0027, 0065	Quelle	0108
Magnasonic	0305, 0620	Radialva	0064, 0075
Magnavox	0027, 0108, 0669	Radiola	0108
Magnin	0267	Radionette	0064, 1164
Magnum	0669	RadioShack	0027, 0064
Manesth	0072, 0099, 0108	Rank Arena	0068
Marantz	0065, 0108, 0173	RCA	0069, 0075, 0267, 0347
Mark	0027, 0305	Realistic	0027, 0064, 0074, 0075, 0131
Mastec	0669	Reoc	0375
Master's	0305	Rex	0068, 0411
Matsui	0267, 0375, 0379, 0769	RFT	0099
Medion	0375, 0379, 0669	Ricoh	0061
Meletronic	0027, 0064, 0065	Roadstar	0064, 0099, 0108, 0267, 0305, 0769
Memorex	0027, 0064, 0075, 0131, 0267, 0375	Royal	0099
Memphis	0099	Saba	0068, 0305, 0347, 0348, 0411, 0521
Metronic	0108	Saisho	0375
Metz	0064, 0108, 0253, 0374, 0863, 0864, 1589	Salora	0070, 0131, 0133
MGA	0070, 0267	Samsung	0072, 0267, 0459, 0647
Micormay	0375	Samurai	0047
Minolta	0069	Sansui	0027, 0068, 0094, 0099, 0133
Mitsubishi	0070, 0075, 0094, 0108, 0507, 0669	Sanyo	0074, 0075, 0094, 0131, 0267, 1164
MTC	0027, 0267	Saville	0267, 0305, 0379
Multitec	0064	SBR	0108, 0173
Multitech	0027, 0047, 0099	Schaub Lorenz	0027, 0068, 0131, 0133, 0342, 0375
Murphy	0027	Schneider	0027, 0064, 0069, 0099, 0108, 0173, 0267, 0305, 0375, 0379, 0669, 0924
Myryad	0108	Scott	0070
NAD	0131	Sears	0027, 0064, 0069, 0074, 0131
Naiko	0375, 0669	Seaway	0305
National	0253	SEG	0099, 0108, 0267, 0305, 0664, 0669
NEC	0064, 0065, 0068, 0094, 0131, 0305	SEI	0108
Neckermann	0108	Seleco	0047, 0064, 0068, 0411
Nesco	0099	Semp	0072
Nikkai	0047, 0099, 0305	Sentra	0047, 0099
Nikko	0064	Sharp	0064, 0075, 0596
Nokia	0068, 0069, 0075, 0108, 0131, 0133, 0267, 0305, 0342, 0579	Shintom	0099, 0131
Nordmende	0068, 0094, 0347, 0348, 0411, 0521	Shivaki	0064
Oceanic	0027, 0068, 0075, 0108, 0131, 0133	Siemens	0064, 0108, 0131, 0173, 0347, 0374
Okano	0099, 0305, 0342, 0375	Siera	0108
Onimax	0669	Silva	0064
Optimus	0064, 0075, 0131, 0459, 0620	Silver	0305
Orbit	0099	Singer	0072
Orion	0375, 0376, 0379, 0769	Sinudyne	0108, 0379
Osaki	0027, 0064, 0099	Smaragd	0375
Osume	0099	Solavox	0047
Otto Versand	0108	Sonneclair	0099
Pace	0379	Sontec	0064
Pacific	0027, 0375, 0669, 0769	Sonwa	0669
Palladium	0064, 0068, 0099, 0375	Sony	0027, 0059, 0061, 0133, 1059
Palsonic	0027, 0099, 0669	Soundwave	0064, 0375
Panasonic	0253, 0863, 0864, 1589	Ssangyong	0099
Pathe Cinema	0070	Stern	0305
Pathe Marconi	0068	Sunkai	0305, 0375
Penney	0064, 0065, 0069, 0267	Sunstar	0027
Pentax	0069	Suntronic	0027
Perdio	0027	Sunwood	0099
Philco	0065, 0099	Supra	0064
Philips	0108, 0173, 0411, 0620, 1296	Sylvania	0070, 0108
Phoenix	0305	Symphonic	0027, 0620
Phonola	0108	Tandberg	0305
Pilot	0064	Tandy	0027, 0131
Pioneer	0069, 0094, 0108, 1830	Tashiko	0027, 0064, 0075, 0108, 0267
Portland	0047, 0305, 0664	Tatung	0027, 0068, 0070, 0075, 0108, 0375, 0379
Prinz	0027	Tchibo	0375
Profitronic	0108, 0267	TCM	0375
Proline	0027, 0305, 0347, 0669	Teac	0027, 0064, 0068, 0334, 0664, 0669, 0871, 0808
Proscio	0871	Tec	0047, 0099

Tech Line	0099
Technics	0108, 0253
Tedalex	0669
Teknika	0027, 0064
Teleavia	0068
Telefunken	0068, 0305, 0347, 0348, 0411, 0521, 0669
Telerent	0253
Teletech	0027, 0099, 0305
Tempest	0047
Tenosal	0099
Tensai	0027, 0099, 0305
Tevion	0375, 0669
Texet	0047, 0305
Thomas	0027
Thomson	0068, 0094, 0305, 0347, 0348, 0411, 0521, 0749
Thorn	0064, 0068, 0131
Tivo	0749
Tokai	0064, 0099
Topline	0375
Toshiba	0068, 0070, 0072, 0108, 0379, 0411, 0459, 0769
Totevision	0064
Towada	0099
Tradex	0108
Uher	0267
Ultravox	0305
Unitech	0267
United	0375, 0769
Universum	0027, 0064, 0108, 0131, 0133, 0267, 0375, 1164
Victor	0094
Video Concepts	0072
Video Technic	0027
Videomagic	0064
Videosonic	0267
Villain	0027
Wards	0027, 0065, 0069, 0072, 0074, 0075, 0099, 0108, 0267
Watson	0108, 0379, 0669
Wharfedale	0620
White Westinghouse	0099, 0305
World	0375
Yamaha	0065
Yamishi	0099, 0305
Yokan	0099
Yoko	0047, 0064, 0267
Zenith	0027, 0061, 0664
ZX	0375, 0379

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3D	LAB 0566
4Kus	1185
A-Trend	0741
Aboss	1125
Acoustic Solutions	0740, 0757
AEG	0797, 0815, 0817
AFK	1078, 1179, 1225
Afreey	0725
Aim	0805
Airis	0699, 1032, 1251, 1277
Aiwa	0560, 0668, 1163, 1270
Akai	0638, 0743, 0793, 0815, 0817, 0925, 1142, 1226, 1260, 1722
AKI	0880, 1032
Akura	0925, 1078, 1167, 1197, 1198, 1260, 2018
Alba	0566, 0699, 0722, 0726, 0740, 0744, 0757, 0810, 1078, 1167
Albatros	1056
Alize	1178
All-Tel	0739
Altacom	1251

Amitech	0797, 0811, 0877
Amoi	0879
Amoisonic	0791, 0862
Amstrad	0740
AMW	0899
Ansonic	0786, 0858
Apex Digital	0699, 1031, 1127, 1942
Arcam	0759
Aria	0920
Arianet	0845, 0920
Ariston	0700
Ariston Acoustics	0700
Aristona	0673
Asono	1251
Atacom	1251
Audiologic	1828
Audiosonic	0717, 1292, 1950
Audiovox	0744
Auvio	0870, 1117
Axion	0757
Bang&Olufsen	1052
Basic Line	0740, 2021
Baze	0925
BBK	0889, 1111, 1251
Beko	1180
Bellagio	1031, 1272
Belson	1130, 1950
Binatone	1950
Black Diamond	0740, 0793, 0860
Blue Sky	0678, 0699, 0722, 0740, 0805, 0870
Boghe	1031, 1248
Boman	0810, 0925
Brainwave	0797, 1142, 1262
Brandt	0530, 0578, 0678
Britannia	0773
Broksonic	0722
BskyB	2007
Bush	0543, 0545, 0699, 0716, 0717, 0722, 0726, 0740, 0744, 0757, 0760, 0805, 0858, 0860, 0906, 1078, 1722
Cambridge Audio	1111, 1136
Cambridge Soundworks	0723
Cat	0726, 0813, 0814, 0816, 1042
CCE	0757, 1944
Cello	2018
Centrex	0699, 1942
Centrum	0740, 0806, 0816, 1032, 1254, 2021
CGV	0760, 0778, 1142
Cinea	0868
Cinetec	0740
cineULTRA	0726
CineVisiom	0903
Clairtone	1276
Classic	0757, 1757
Clatronic	0699, 0815, 0845
Clayton	0740
Coby	0757, 0805
Codex	1260
Compacts	0853, 1125, 1292
Conia	0791, 0879
Continental Edison	0858, 1276
CrossWood	1180
Crown	0717, 0796, 0797, 1142, 1183
Crypto	0909, 1255
Cybercom	0858
CyberHome	0741, 0843, 0901, 1046, 1050
Cyrus	1039
Cytron	0678, 0743
D-Vision	1142
Daenyx	0899
Daewoo	0732, 0741, 0797, 0859, 0860, 0897, 0899, 1196, 1945

Daewoo International	0899
Dalton	0813, 1063
Dansai	0774, 0797, 0810, 1142
Dantax	0566, 0740, 0750, 0817
Daytek	0899, 1032
Dayton	0899
Daytron	1067
DCE	0858
Decca	0797, 1142
Denon	0517, 0661, 1661
Denver	0726, 0805, 0815, 0925, 1110, 1131, 1950
Desay	0870, 1117
Diamond	0678
Digatron	1036
Digihome	0740
Digital i	0920
Digitrex	1942
Digix Media	0853
DiK	0858
Dinamic	0815
DiViDo	0732
DK Digital	0858, 0867, 1281, 2034
DMTech	0810, 1124, 2073
Dragon	0858
DreamX	1178
DSE	1757
DTS	0826
Dual	0678, 0692, 0740, 0757, 0806, 0810, 0817, 0858, 2034, 2073
Durabrand	0740, 0858, 1030, 1154
Easy Home	0884
eBench	1179
ECC	0757
Eclipse	0750, 0778
Elfunk	0877
Elin	0797
Ellion	0877
Elta	0699, 0717, 0797, 0815, 0877, 1142, 1178, 2018
Eltax	0793, 1119, 1123, 2014
Emerson	0618, 0732
Encore	0725
Enterprise	0618
Enzer	0728, 1255
EuroLine	0815, 1110, 1142, 1260, 2048
Fenner	0678, 1056
Ferguson	0678, 0925
Finlux	0618, 0699, 0768, 0778, 0797, 0810, 1174
Fintec	0811, 1196
Firstline	0740, 0826, 0870, 0896
Fisher	0697
Fujilink	0882
Funai	0702, 0722
Fusion	0889
Futronic	1960
Gateway	1185
GE	0744
Giec	1248
Global Solutions	0795
Global Sphere	1179
Go Video	0810, 0896, 1126, 1997
GoldStar	0618, 0768
Goodmans	0678, 0717, 0740, 0750, 0757, 0810, 0817, 0860, 0906, 1031, 1167, 1248, 1281, 2034, 2041
GPX	0726, 0796
Graetz	0692
Gran Prix	0858, 0925
Grandin	0740, 0743, 1260, 1281
Greenhill	0744
Grundig	0566, 0578, 0678, 0697, 0713, 0722, 0728, 0732, 0740, 0802, 0817, 1031, 1063, 1722, 1757, 1947, 2073
Grunkel	0797, 1183

GVG	1196
H&B	0845, 0868, 0877, 1260, 1262
H&B	0740, 0845, 0868, 0877, 1260, 1262
Hanseatic	0768, 0810, 0817, 1180
Harman/Kardon	0729
Haus	0813, 0876
HCM	0815
HDT	0732
HE	1190
Henss	0740
Himage	0545, 0852, 1187
HiMAX	0870, 1133
Hiper	1275
Hitachi	0600, 0691, 0740, 1946, 1947, 2021
Hiteker	0699, 1184
Hoeher	0678, 0740, 0853, 0858, 1251
Home Electronics	0757
Home Tech Industries	1251
Hoyo	0770
Humax	0673
Hypson	0700
Hyundai	0793, 0877, 1045, 1183
ICP	1180
IIsonic	1188, 1291
Ingelen	0815
InterAct	0724
IRT	0810
ISP	0722
Jamo	2030
Jaton	0692
JBL	1948, 2005
JDB	0757
Jeken	0726
Jepssen	1277
Jeutech	0804
JMB	0722
Jocel	0807
JVC	0530, 0566, 0650, 0894, 1191, 1928, 1967
jWin	1078
Kansas Technologies	1260
Karcher	0810
KCL	1115
Kendo	0726, 0740, 0858
Kennex	0740, 0797, 0867, 0925
Kenwood	0517, 0561, 0764, 1090
Kiirio	0797, 0880
King DHome	0826
Kingavon	0845
Kiss	0692, 0868, 2030
Koda	1257
Kotron	0878
KXD	0884
Labway	0558, 0736
Lasonic	0770
Lawson	0743, 0795
Lecson	0723, 0774
Lenco	0678, 0726, 0740, 0797, 0805, 1056
Lenoxx	1965, 2041, 1154
Lenoxx Sound	1965, 2041
Lexia	0726, 0795
LG	0618, 0768, 0817, 0896, 1933, 2010, 2029
Lifetec	0678, 0858
Limit	0743, 0795, 1131
Linn	1954
LiteOn	1085, 1185, 1188
Lodos	0740
Loewe	0566, 0768, 0912
Logix	0732, 0810, 1128
Lumatron	0722, 0732, 0751, 0768, 0860, 1124, 1142
Lunatron	0768
Luxman	0600, 1118
Luxor	0740, 1031, 1722, 1757

Magnat	1950, 2046, 2073
Magnavox	0530, 0566, 0702, 0740, 1167
Magnex	0750
Magnum	2041
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