

About this User Manual

This manual contains all information you will need to initially install and operate your new TV. Also read the help texts which are being displayed at the bottom of the screen.

If this instruction manual does not give an answer or if 'Troubleshooting' does not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied Worldwide guarantee booklet. Please, have the Model and Product number which you can find at the back or the bottom of your television set or on the packaging, ready, before calling the Philips customer support service.

Model: 42PF9831169; 37PF9731169

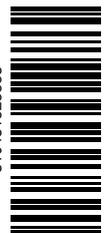
Product No:

English

Contents

Safety warnings	2	To make video and audio connections	39
Getting started	3	Side panel overview	40
Use of the remote control RC4420	5	Rear panel overview	41
Use of the option key	8	Connect	
Keys at the right side of the TV	8	a VCR or DVD recorder	42
Switch the TV on	9	two VCRs or VCR and DVD recorder	43
First time installation	9	a satellite receiver	43
How to navigate through the menus	13	a DVD player, HD receiver or game console	44
Use of the TV menu settings	13	a DVD player or HD receiver	44
Adjust picture menu settings	15	a DVD player, a satellite receiver or HD receiver	45
Adjust sound menu settings	18	a PC	46
Enjoy Ambilight	20	a Home Cinema amplifier	47
Adjust feature menu settings	23	Select connected equipment	48
How to search for and store TV channels	26	Record with your recorder	48
Rearrange the channel number list	28	Audio- and video equipment keys	49
Set your preferences	29	Troubleshooting	50
Select your connections	30	Annex 1 - Philips TV software upgrade with portable memory	52
Reset the Factory settings	31	Annex 2 - Philips TV-Slideshow Format with background music	55
How to upgrade the TV software	31	Annex 3 - Philips TV - Digital camera and USB issues	57
Create your favourite list	32	Annex 4 - Issues referring to connected peripherals with a HDMI connector	59
Multimedia Browser	33	Index	60
Teletext	37	Recycling	61
		Product information	61

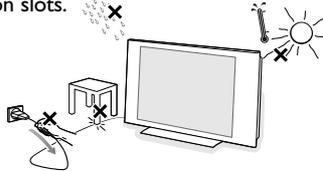
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General

Do not insert the power plug in a wall socket or hang the TV to the wall before all connections are made.

- Place or hang the TV wherever you want, but make sure that air can circulate freely through the ventilation slots.



- Do not install the TV in a confined space such as a book case or a similar unit.
- To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity.
- Avoid heat, direct sunlight and exposure to rain or water.
- The equipment shall not be exposed to dripping or splashing.

Care of the screen

Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.

And please do not rub with dust clothes with chemical treatment.

Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen). Unplug the TV before cleaning the screen.

When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks. Do not use acetone, toluene and alcohol because they cause chemical damage. Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.

Stationary images on the TV screen

A characteristic of LCD and Plasma Panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen.

Examples of stationary images (this is not an all-inclusive list, you may encounter others in your viewing):

- TV and DVD menus: listings of DVD disk content;
- Black bars: when black bars appear at the left and right side of the screen, it is recommended to change to a picture format so that the picture fills the entire screen;

- TV channel logo: present a problem if they are bright and stationary. Moving or low-contrast graphics are less likely to cause uneven aging of the screen;
- Stock market stickers: presented at the bottom of the TV screen;
- Shopping channel logos and pricing displays: bright and shown constantly or repeatedly in the same location on the TV screen. Examples of still pictures also include logos, computer images, time display, teletext and images displayed in 4:3 mode, static images or characters, etc.

Tip: reduce contrast and brightness when viewing.

Carefully pay attention to these remarks. The warranty does not apply to damage caused by not taking into account the above mentioned warnings on stationary images.

Electric, Magnetic and Electromagnetic Fields ("EMF")

- Philips Royal Electronics manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
- One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
- Philips is committed to develop, produce and market products that cause no adverse health effects.
- Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Pixel characteristics

Your TV display is made with high-precision technology with a high number of colour pixels. Although it has effective pixels of 99,999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Getting started

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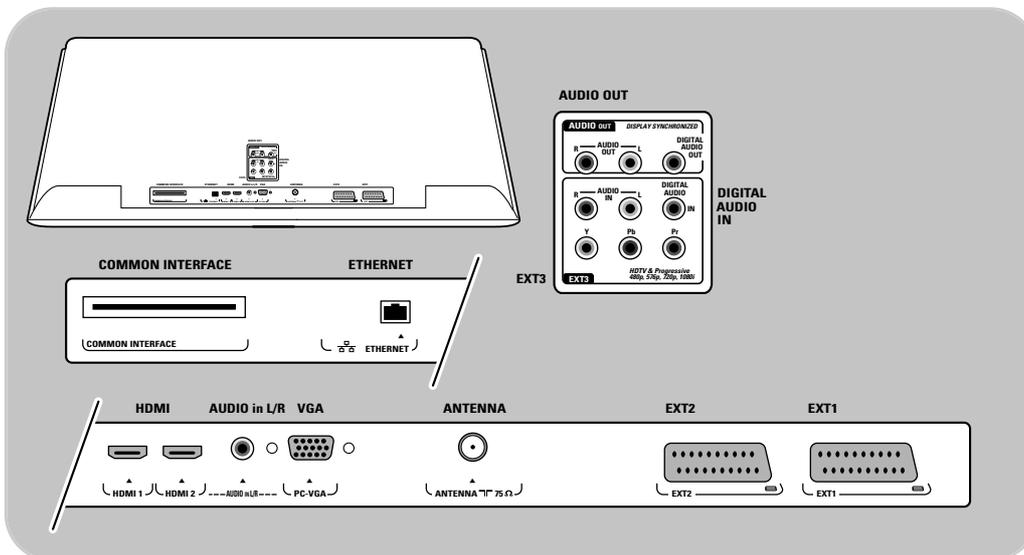
Before you start

Warning: do not insert the mains cord into the mains at the bottom of the TV and in a wall socket or hang the TV on the wall before all connections are made.

Before you switch on your TV, connect all your peripheral equipment. See To make video and audio connections, p. 39.

Overview of the rear connector panel

There is a wide range of audio and video equipment that can be connected to your TV. See To make audio and video connections, p. 41.



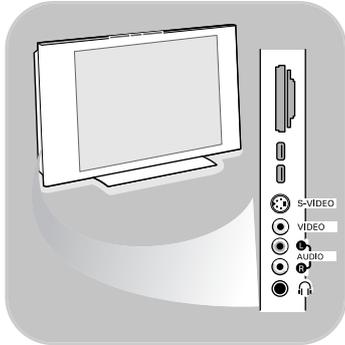
EXT1 can handle CVBS, RGB and Audio L/R;
EXT2 can handle CVBS, S-VIDEO, RGB, Audio L/R;
EXT3 can handle YPbPr and Audio L/R;
HDMI 1 and 2.
VGA can handle VGA, SVGA, XGA and 480p, 576p, 1080i
COMMON INTERFACE, ETHERNET : no function

Supported video formats: 480i, 480p, 576i, 576p, 720p, 1080i.

Warning: disconnect all power sources before making any connections.

Tip: it is preferable to connect peripherals with RGB output to **EXT1** or **EXT2** as RGB provides a better picture quality.

Note:
 EXT1 = AV1, EXT2 = AV2, EXT3 = AV3.



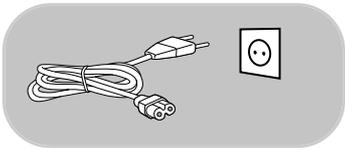
Overview of the side connector panel

- To connect a camera, camcorder or game, see To make video and audio connections, p. 40.
- To connect a headphone, see To make video and audio connections, p. 40.
- To connect a USB device, see Multimedia browser, p. 33.

Connect the antenna

- Insert the aerial plug firmly into the aerial socket  at the bottom of the TV.

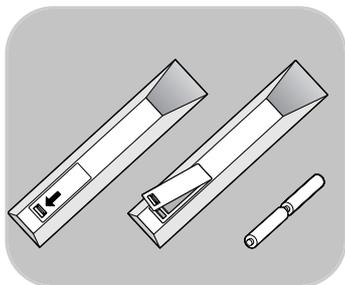
Tip: for best quality use the suppressor cable supplied.



Connect the mains

- Insert the mains cord supplied into the mains at the bottom of the TV and in the wall socket.

Warning: verify that the mains supply voltage corresponds to the voltage printed on the sticker at the rear of the TV.



Remote control

- Insert the 2 batteries supplied (Type R6-1,5V). Be sure the (+) and (-) ends of the batteries line up correctly (inside of case is marked.)

For most keys pressing a key once will activate the function. Pressing a second time will de-activate it.

Use of the remote control RC4420

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Standby

Press to switch the TV from or to standby mode.
When switched to standby, a red indicator on the TV lights up.

Attention: the TV is never powered off completely unless it is physically unplugged.

TV Press to select TV mode.

DVD STB VCR AUX

Press to select one of the system modes in which the remote control can be used.
See Audio and Video equipment keys, p. 49.

DEMO Press to switch the Demo menu on or off.

Colour keys

- When functions are attached to the colour keys, the colour keys are shown on screen.
- To select a page in Teletext mode.

OPTION

- To open and close the Quick access menu which contains a few frequently used options, like Picture format.
- When in teletext, press repeatedly to enlarge the teletext page display. See Teletext, p. 37.

 no function.

Cursor keys

Press the cursor keys up/down, left/right to navigate through the menus.

OK - To activate a setting;

- Starts playing content in the Multimedia Browser application.

BROWSE/MENU:

To open and close the main menu. See How to navigate through the menus, p. 12.

Teletext On/Off

Volume

Press + or - to adjust the volume.

 **Mute key:** interrupt the sound or restore it.

**+P- Channel selection**

- to browse through the TV channels and sources stored and marked in the Favourite channels lists;
- to select a page in Teletext mode;
- to quickly browse through the lists in the menus;
- to switch the TV on from standby mode.

0/9 Digit keys

To select a TV channel between 0 and 999.

AV Select your peripherals

See Installation menu, Select your connections, p. 30.

P+P Previous channel

Press to alternate between the currently viewed and the previously viewed TV channel.

Ambilight MODE

Ambilight: press to switch Ambilight On or Off. For the Ambilight settings, see Use of the TV menu settings, Enjoy Ambilight, p. 20.

MODE: press this key repeatedly to toggle through the Ambilight modes.

Note: when the TV is switched to standby, and you switch Ambilight On, Ambilight will be active. Only then less modes are available.

◀ ◻ ▶ ▶▶ Audio and Video equipment keys

See Audio and Video equipment keys, p. 49.

See Multimedia browser functional keys, p. 36.

◻ **CANCEL** : no function.

● no function.

i+ On screen information

Press to display (when available) information about the selected TV channel and programme.

Note: to set the remote control to work peripheral equipment, see Annex 1, p. 51.

Use of the remote control RC4420 (Continued)

EN



12 Dual screen/PIP

Press the **12** key to switch on or off Dual screen or PIP, according to the format selection made in the **PIP format** list. See p. 23.

PIP allows you to call up a subscreen within the main screen enabling you to watch two TV channels or a TV channel and pictures from a peripheral at the same time.

Dual screen allows you to divide the main screen into two subscreens enabling two TV channels or a TV channel and an external source or a combination of one of them with Teletext (see p. 37) to be watched simultaneously.

Note: not all combinations might be possible. In such a case a message appears on the screen.

1. Press the cursor left/right to highlight the PIP window or the left/right screen in Dual screen
2. Press the **-P+** key or the **AV** key or the digit keys in order to change TV channels, external sources or teletext pages in the highlighted screen.

Note: on screen information, which appears when changing channels, always refers to the highlighted screen.

3. Press the **12** key again to return to a full main screen picture. The TV tunes to the picture which was highlighted in the Dual screen or PIP mode.

Notes:

- Audio only plays from the main, when PIP has been selected, or from the left screen, when Dual screen has been selected.
- When in Dual screen, two display formats are supported: full screen or squeezed. Multimedia browser content will always be displayed full screen.
- When PIP or Dual screen mode is activated, and a TV channel or source is locked, the picture is grayed out.
- Programmes via a decoder/descrambler can not be reproduced in the right picture.

Define the position of the PIP screen

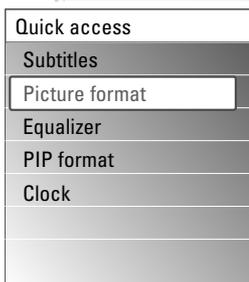
1. Press the cursor right to highlight the PIP screen.
2. Press the red colour key on the remote control to select **Position**.

Note: if no action has been undertaken, the function bar at the bottom of the screen will disappear after a few seconds. Press any colour key to make it re-appear.

3. Use the cursor keys to define the position of the PIP screen.

FAV To display the channels list.

You can create up to four favourite lists.



The **OPTION** key allows you to display the Quick access menu which will give you direct access to some features and menu options.

1. Press the **OPTION** key.
 - The Quick access menu appears.
2. Press the cursor up/down to select a menu item.
3. Press the **OK** key to jump to the selected menu item in the TV menu. (Except for the Clock option).
4. Use the cursor keys to make a selection.
5. Press the **OPTION** key to exit.

Subtitles:

See Adjust feature menu settings, p. 23.

Picture format:

See Use of the TV menu settings, Adjust picture menu settings, p. 16.

Equalizer:

See Use of the TV menu settings, Adjust sound menu settings, p. 18.

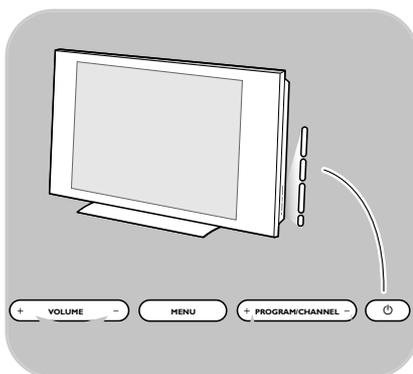
PIP format:

See Adjust feature menu settings, p. 23.

Clock:

- Select to activate/deactivate the clock display on the screen.

Keys at the right side of the TV



In case your remote is lost or broken, apart from channel selection and volume adjustment, you can still change some of the basic settings with the keys at the right side of your TV.

- Press the power switch  to switch the TV on or off.

The **MENU** key can be used to summon the TV menu without the remote control.

- Use the **VOLUME** - and + keys and the **PROGRAM/CHANNEL** - and + keys to select menu items.



Switch the TV on

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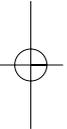
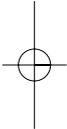
- Press the power switch  at the side of the TV.
 - An indicator on the front of the TV lights up and the screen comes on.
- If the TV is in standby mode, press the **-P+** keys or the  key on the remote control.

Note: the first time (and only the first time) you switch on your TV, you see a Welcome screen followed by the installation procedure. See First time installation, p. 10.

First time installation

The installation procedure consists of a series of screens that will guide you through the installation of your TV. Follow the instructions on screen.

Note: if the TV has already been installed before and/or you want to change the First time installation settings, proceed with Use of the TV menu settings, p. 13.





Step 1: select your on-screen language

After the Welcome screen you are asked to select a language of the TV's on-screen menus. The text of the header and the info on screen continuously change language.

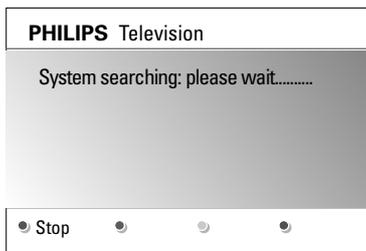
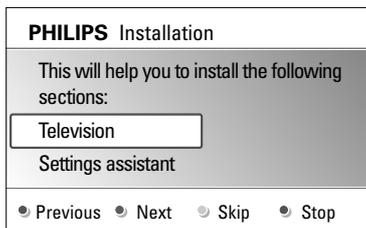
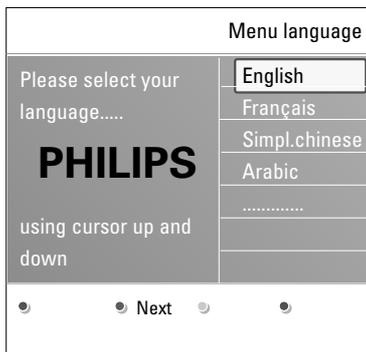
1. Press the cursor up/down to highlight your language.
2. Press the **OK** key on the remote control.
3. Follow the instructions on screen to proceed.

Step 2: complete the initial TV installation procedure

1. Press the green colour key on your remote control when **Television** is highlighted.
2. Press the green colour key on your remote control to start the Automatic channel installation.
 - ▷ All available TV channels are searched for and stored automatically. This will take a few minutes.

Note: if you choose to install the channels at a later time, select the Automatic installation in the TV menu, Installation, Channels, p.26, to scan available channels.

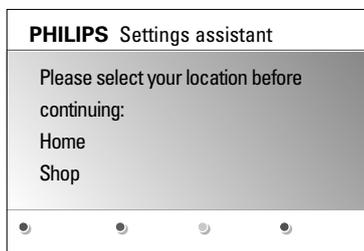
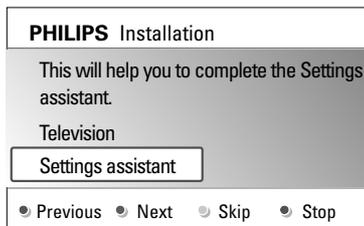
3. Press the red colour key again when the search is completed.



First time installation (Continued)

EN

Step 3: Settings assistant: select your TV settings



By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings, to finally arrive at a complete setting which satisfies you.

1. Press the green colour key on your remote control to enter the **Settings assistant** menu.
2. Select your Location with the cursor up/down.
 - ▷ If you choose **Shop** it will skip the Settings assistant. The TV parameters for picture, sound and ambilight will then be set to predefined fixed settings. Press the green colour key again to proceed.
 - ▷ If you choose **Home** it will display the Settings assistant.
3. Use the cursor left/right to each time select your preferred screen.
4. Press the green colour key to each time confirm your selection and to jump to the following screen.
 - ▷ The following items will be presented sequentially. In the header it is mentioned how many screens have been completed and how many screens there are in total. The Settings assistant will step sequentially through the settings of picture, sound and ambilight.
5. Press the green colour key again to store all the settings and to return to the TV installation menu.

Note: when you skip or stop the Settings Assistant, then the standard settings Philips selected for you will be chosen.

6. Press the green colour key again to finish the First time installation procedure and to display the first stored TV channel.

Note: any time you can change or reset your settings or adjust individual settings for picture, sound and ambilight in the TV settings menu. See p. 13, Use of the TV menu settings.

To control the settings of special TV functions, features and accessory equipment, see p. 23, Adjust feature menu settings.



Television	TV menu
	TV channels
Multimedia	

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

Introduction

A lot of guiding instructions, help texts and messages will be displayed on your TV when you use the menus or when you try to execute an action.

Read the help texts which are being displayed on the specific item highlighted.

The colour keys at the bottom of the screen refer to the different actions which may be executed.

Press the corresponding colour key on the remote control to perform the required or desired action.

- Press the **MENU/BROWSE** key on the remote control.
 - The main menu appears on the screen.
 - **TV menu** allows you to access the TV menu. See below.
 - **TV channels** allows you to access the TV channel list and to create up to four favourite lists with your preferred TV channels. See Create your favourite channel list, p. 32.
 - **Multimedia** allows you to access the Multimedia browser application. It lets you display your personal multimedia files. Multimedia is only present when a USB is connected. See Multimedia browser, p. 33.
- Use the cursor up/down to highlight and select a menu item.
- Use the cursor right to enter the highlighted menu item.
 - The right panel shows the content of the highlighted menu item.
- Use the cursor up/down to select a menu item.
 - **TV settings** allows you to adjust your preferred picture, sound and ambilight settings
 - **Features** allows you to control the settings of special TV features
 - **Installation** allows you
 - to select your menu language;
 - to search for and store your TV channels;
 - to set or adjust various special functions;
 - to select connected peripheral equipment;
 - to reset your picture, sound and ambilight settings to the factory standard settings;
 - to upgrade your TV software.

How to navigate through the menus (continued)

EN

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

- Press the cursor right to enter the highlighted menu item.
 - The content of the right panel is moved to the left panel and the right panel now shows the content of the newly highlighted item in the left panel.

Note: in some cases it is important that the picture can be watched while you adjust the settings. This means that when the highlight is on the right side panel, the other menu items hide away. When the cursor left is pressed, the hidden menu items reappear and the highlight moves to the left panel.

- Press the **MENU/BROWSE** key to exit the main menu.

Use of the TV menu settings

Television	TV menu TV channels
Multimedia	

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

The TV menu allows you to access and change settings and preferences in case you want to change the First time installation settings and/or you want to control the settings of special TV functions, features and peripheral equipment.

Adjust picture, sound and ambilight settings

- Press the **MENU/BROWSE** key on the remote control.
 - The main menu appears on the screen.
- Select **TV menu** and press the cursor right.
 - The TV menu is displayed.
- Select **TV settings** and press the cursor right.
 - The TV settings menu is moved to the left.
- Press the **MENU/BROWSE** key to exit the menu.

To make it easier to change the settings of the TV, there are 3 ways of doing it. See next pages.

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

A. Change settings in an easy-to-use manner with the Settings assistant.

Each time you've made a selection, press the green key to confirm your selection.

1. Select **Settings assistant** and press the cursor right.
 - ▷ By means of several split screens/full screens you are prompted to select your preferred picture, sound and ambilight settings to finally arrive at a complete setting which satisfies you.
See First time installation, Step 3: Settings assistant: select your TV settings, p. 11.
2. Press the green colour key to return to the TV menu again.

TV menu	TV settings	Reset to standard
Settings assistant	Current	
Reset to standard	Natural	
Picture	Vivid	
Sound	Subtle	
Ambilight		
Info		

B. Use of the Standards settings (if present)

This allows you to reset your settings for viewing and listening to predefined factory settings.

1. Select **Reset to standard** and press the cursor right.
 - ▷ A menu appears which allows you to select one of the standard settings for viewing and listening.
 - ▷ **Current** shows your current settings for viewing and listening.
 - ▷ If you select **Natural**, it allows you to set your picture, sound and ambilight settings to the recommended standard values. In most cases this will give the best balanced viewing experience.
 - ▷ If you select **Vivid**, it allows you to set your picture, sound and ambilight settings to rich values, making use of the TV capabilities to its full extend.
 - ▷ If you select **Subtle**, it allows you to set your picture, sound and ambilight settings to the purest representation of the original source content.
2. Press the green colour key to store the selected setting.

Note: storing a standard setting will overwrite your current settings for viewing and listening.

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

C. Individual settings for picture, sound and ambilight.

- Select **Picture, Sound or Ambilight** and press the cursor right.
 - ▷ A menu appears which allows you to fine tune the picture, sound and ambilight settings.
 - ▷ To adjust the Picture settings, see Adjust picture menu settings, p. 15.
 - ▷ To adjust the Sound settings, see Adjust sound menu settings, p. 18.
 - ▷ To adjust the Ambilight settings, see Enjoy Ambilight, p. 20.

Adjust picture menu settings

EN

TV menu	TV settings
TV settings	Settings assistant
Features	Reset to standard
Installation	Picture
	Sound
	Ambilight
Info	

The picture menu contains the settings that affect the quality of the picture.

1. Press the **MENU/BROWSE** key on the remote control.
 - The main menu appears.
2. Select **TV menu** and press the cursor right.
 - The TV menu is moved to the left.
3. Select **TV settings** and press the cursor right.
 - The TV settings menu is moved to the left panel.
4. Select **Picture** and press the cursor right.
 - The Picture menu is moved to the left panel.
5. Use the cursor up/down to select the Picture menu items.
6. Press the cursor right to enter the selected Picture menu item.
7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Picture menu.

TV menu	Picture
TV settings	Picture
Settings assistant	Contrast
Reset to standard	Brightness
Picture	Colour
Sound	Hue
Ambilight	Sharpness
	Tint

Info	

Contrast

Adjusts the intensity of bright parts in the picture but keep the dark parts unchanged.

Brightness

Adjusts the light output of the complete picture, which will mainly affect the darker areas of the picture.

Colour

Adjusts the saturation level of the colours to suit your personal preference.

Hue

Compensates for the colour variations in NTSC encoded transmissions.

Sharpness

Adjusts the sharpness of fine details in the picture.

Tint

Increases or decreases **Warm** (red) and **Cool** (blue) colours to suit personal preferences.

- Select **Cool** to give the white colours a blue, **Normal** to give the white colours a neutral, **Warm** to give the white colours a red tint.
- Select **Custom** to make a customised setting in the Custom tint menu item.

TV menu	
TV settings	Picture
Settings assistant
Reset to standard	Custom tint
Picture	Pixel Plus
Sound	Dig. Natural Motion
Ambilight	Clear LCD
	Dynamic contrast

Info	

Custom tint (only when Tint is set to Custom)

Fine tunes the white point (**WP**) and black level (**BL**) of the picture.

1. Select **Custom tint** and press the cursor right.
2. Use the cursor keys to select and adjust the settings of:
 - R-WP**: allows you to customise the colour tint by adjusting the red whitepoint of the picture.
 - G-WP**: allows you to customise the colour tint by adjusting the green whitepoint of the picture.
 - B-WP**: allows you to customise the colour tint by adjusting the blue whitepoint of the picture.
 - R-BL**: allows you to customise the colour tint by adjusting the red blacklevel of the picture.
 - G-BL**: allows you to customise the colour tint by adjusting the green blacklevel of the picture.
3. Use the colour keys to reset to the predefined settings.
4. Press the cursor left to return to the Picture menu.

Pixel Plus

Pixel Plus is the most ideal setting, as it fully processes the image to make every single pixel the best it can be, improving contrast, sharpness, picture depth, and colour reproduction and brilliance from every source, including High Definition.

- Select **On** or **Off** in order to activate/de-activate Pixel plus.

Digital Natural Motion

Reduces the field and line flicker and reproduces smooth movement especially in movies.

- Select **Off**, **Minimum** or **Maximum** in order to really see the difference in picture quality.

Clear LCD

Clear LCD results in superior sharpness of motion reproduction, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.

Dynamic contrast

Automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on the screen changes.

- Normally select **Medium**. It may be preferred to select **Minimum**, **Maximum** or **Off**.

Adjust picture menu settings (Continued)

EN

TV menu	
TV settings	Picture
Settings assistant
Reset to standard	DNR
Picture	MPEG artifact red...
Sound	Colour enhancem..
Ambilight	Active control
	Light sensor
	Picture format
Info	

DNR

DNR automatically filters out and reduces the image noise. This improves picture quality when receiving weak signals.

- Select **Off**, **Minimum**, **Medium** or **Maximum** according to the image noise in the picture.

MPEG artifact reduction

MPEG artifact reduction On smoothens the transitions on digital content.

- Select **On** or **Off**.

Colour enhancement

Automatically controls green enhancement and blue stretch. It makes the colours more vivid.

- Select **Off**, **Minimum**, **Medium** or **Maximum**.

Active control

The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.

- Select **On** or **Off** to activate/de-activate Active control.

Light sensor

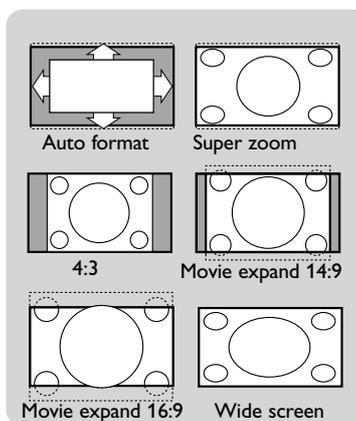
Light sensor **On** automatically adjusts the picture and ambilight settings for best viewing dependent on the lighting conditions in the room.

- Select **On** or **Off**

Picture format

This allows you to adjust the size of the picture dependent on the broadcasted format and your preferred setting.

Tip: this function is also accessible via the **OPTION** key on the remote control.



How to navigate through the TV settings menu, see p. 13 :

Use of the TV menu settings.

Choose among the following picture formats: Auto format, Super zoom, 4:3, Movie Expand 14:9, Movie Expand 16:9 or Wide screen.

Auto format makes the picture fill the screen as much as possible.

In case of subtitles in the bottom black bar, Auto format makes the subtitles visible.

In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.

Super zoom removes the black bars on the sides of 4:3 programmes with minimal distortion.

When in Movie Expand 14:9, Movie Expand 16:9 or Super zoom screen format, you can make subtitles visible with the cursor up/down.

Note: with HD sources not all picture formats will be available.

TV menu	
TV settings	Sound
Settings assistant	Equalizer
Reset to standard	Volume
Picture	Balance
Sound	Dual I/II
Ambilight	Mono/Stereo

Info	

The sound menu contains the settings that affect the quality of the sound.

1. Press the **MENU/BROWSE** key on the remote control.
 - ▷ The main menu appears.
2. Select **TV menu** and press the cursor right.
 - ▷ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
 - ▷ The TV settings menu is moved to the left panel.
4. Select **Sound** and press the cursor right.
 - ▷ The Sound menu is moved to the left panel.
5. Use the cursor up/down to select the Sound menu items.
6. Press the cursor right to enter the selected Sound menu item.

Note: dependent on the input signal, one or more menu items may not be selectable.

7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Sound menu.

Equalizer

Allows you to change the frequency response of the sound to match your personal taste.

Tip: this function is also accessible via the **OPTION** key on the remote control.

Volume

Allows you to adjust the sound output level.

Balance

Allows you to adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

Dual I/II

Allows you to select, per channel, **Dual I** or **Dual II**, when dual sound transmission is available.

Mono/Stereo

Allows you to select, per TV channel, **Mono** or **Stereo** sound when stereo broadcasts are available.



Adjust sound menu settings (Continued)

EN

TV menu	
TV settings	Sound
Settings assistant
Reset to standard	Surround mode
Picture	Headphone volume
Sound	AVL
Ambilight	Delta volume
	Auto surround
Info	

Surround mode

Allows you to select the modes for more spatial or surround sound reproduction dependent on the broadcasted signals or signals from external inputs received.

Headphone volume

Allows you to control the level of sound through the headphones.

AVL (Automatic Volume Leveler)

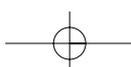
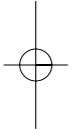
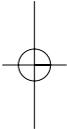
Automatically reduces the volume differences between channels and programmes, providing a more constant overall level. This will also reduce the dynamics of sound.

Delta volume

Allows you to correct for any permanent volume differences between TV channels or external sources.

Auto surround

When switched **On**, this allows the TV to automatically switch to the best surround sound mode the broadcaster transmits.



TV menu	
TV settings	Ambilight
Settings assistant	Ambilight
Reset to standard	Brightness
Picture	Mode
Sound	Colour
Ambilight	Custom colour
	Separation

Info	

The ambilight menu contains the settings for controlling the ambient lighting. Using ambient light gives a more relaxed viewing experience and improves perceived picture quality. Analysis of the picture content adapts the colours continuously. But the lights can also be set to any fixed colour and many shades of white.

Tip: in standby mode the lights can be set/operated to any colour and create a unique ambiance in the room. See Ambilight in standby mode, p. 22.

1. Press the **MENU/BROWSE** key on the remote control.
 - ▷ The main menu appears.
2. Select **TV menu** and press the cursor right.
 - ▷ The TV Menu is moved to the left.
3. Select **TV settings** and press the cursor right.
 - ▷ The TV settings menu is moved to the left panel.
4. Select **Ambilight** and press the cursor right.
 - ▷ The Ambilight menu is moved to the left panel.
5. Use the cursor up/down to select the Ambilight menu items.
6. Press the cursor right to enter the selected Ambilight menu item.
7. Use the cursor keys to adjust the settings.
8. Press the cursor left to return to the Ambilight menu.

Ambilight

Allows you to switch the lights On or Off at the rear of the TV.

- Select **Off** to switch off the ambient lights and downlight all other ambilight menu items.
- Select **On** to switch on the ambient lights. Refine the light settings in the menus below.

Brightness

Allows you to adjust the light output of the ambilights.

Enjoy Ambilight (Continued)

EN

TV menu	
TV settings	Ambilight
Settings assistant
Reset to standard	Mode
Picture	Colour
Sound	Custom colour
Ambilight	Separation
	Colour boost
	Balance
Info	

Mode

Allows you to choose for constant background lighting or for background lighting that matches the images displayed on the screen.

- o Use the cursor keys to select Colour, Relaxed, Moderate or Dynamic.
 - **Colour**: this will show constant light according to the settings in the Colour menu below. It allows manual fine tuning in the next Ambilight menu items.
 - The options **Relaxed**, **Moderate** or **Dynamic** will dynamically match brightness and colour to the screen content. The selection made will effect the speed which determines the viewing impression.
For example:
 - in **Relaxed** mode, the rate of brightness and colour change, as predefined in the factory, is smoothly and soft which gives you an immersive yet relaxed viewing.
 - in **Moderate** mode the rate of brightness and colour change can be experienced as between Relaxed and Dynamic.
 - in **Dynamic** mode the rate of brightness and colour change is more quick and dynamic. This gives you full immersion and involvement with the screen content.

Notes:

- the rate of change is limited, as not to cause uncomfortable sensations;
- according to the selection made, some Ambilight menu items will be downlighted and can not be selected.

Colour

Note: only available when Colour has been selected in the Mode menu above.

Allows you to select or adjust the colour of the light to your own personal choice.

- **Warm white** is matched to that of most normal lightbulbs. Select this setting if you want the Ambilight to fit best with normal living room lighting.
- **Cool white** is matched to that of normal daylight (6500K). Select this setting if you prefer more cool lighting.

Note: the 6500K is the SMPTE recommended setting for ambient backlighting of displays.

- **Blue**: preferred by most consumers to create a cool, modern and/or mystical atmosphere. Select this setting according to your personal taste or mood.
- **Red**: preferred by most consumers to create a cosy, special atmosphere. Select according to your personal taste or mood.
- **Custom**: select if you want to customise the ambilight colour.

TV menu	
TV settings	Ambilight
Settings assistant
Reset to standard	Mode
Picture	Colour
Sound	Custom colour
Ambilight	Separation
	Colour boost
	Balance
Info	

Custom colour

Note: only available when Custom has been selected in the Colour menu.

Allows you to customise the ambilight colour.

- Select **Palette** to select the general colour of the light output.
- Select **Saturation** to adjust the colourfulness of the light.

Separation

Allows you to define the stereo effect in case, Relaxed, Moderate or Dynamic has been selected in the Mode menu.

- Select **Off** for a mono behaviour which means that all lamps will behave equally.
- Select **Minimum, Medium** or **Maximum** to define the Ambilight stereo effect spread over the available lamps.

Colour boost

Note: not available when Colour has been selected in the Mode menu.

Allows you to amplify the colours of the light for a more dynamic effect.

- Select **Off, Minimum, Medium** or **Maximum** according to your personal preference.

Balance

Allows you to adjust the colour and level of light intensity on the left and right side of the picture.

Ambilight in standby mode

When the TV is switched off, the ambient lights will also be switched off. When the TV is in standby mode, ambilight can be used to provide a unique ambience for the room.

- Press the **Ambilight** key on the remote control to switch between Ambilight On or Off. See Use of the remote control, p. 6.
- Press the **Ambilight MODE** key repeatedly to toggle through the Ambilight modes.

Note: when the TV is switched to standby, and you switch Ambilight On, then less Ambilight modes are available.

Caution: Infrared interference

To avoid bad infrared remote control reception, place your peripheral equipment out of sight of the ambient lights of your TV. Ambilight does not function well when the room temperature is less than 59°F/15°C.

Adjust feature menu settings

EN

TV menu	Features
TV settings	PIP format
Features	Subtitle
Installation	Sleeptimer
	Childlock
	Set/Change code

Info	

The Features menu allows you to control the settings of special TV functions, features and accessory equipments.

1. Press the **MENU/BROWSE** key on the remote control.
 - The main menu appears.
2. Select **TV menu** and press the cursor right.
 - The TV Menu is moved to the left.
3. Select **Features** and press the cursor right.
 - The Features menu is moved to the left panel.
4. Use the cursor up/down to select the Features menu items.
5. Press the cursor right to enter the selected Features menu item.
6. Use the cursor keys to adjust the settings.
7. Press the cursor left to return to the Features menu.

PIP format

This menu allows you to select the preferred format (PIP or Dual screen) which can then be displayed toggling the **12** key on the remote control On or Off.
See Use of the remote control, p. 7.

Tip: this function is also accessible via the **OPTION** key on the remote control.

Subtitle

This displays Teletext subtitles from the selected TV channel. These can be permanently displayed, or only when mute is active. The teletext subtitle page must be stored for each TV channel.

1. Switch on teletext and select the proper subtitle page from the index.
2. Switch off teletext.
3. Select
 - **Subtitle On** to display the subtitles on the selected TV channels. A symbol will indicate that the mode is on.
 - **On during mute** to automatically display the subtitles only when the sound has been muted with the **M** key on the remote control.

Tip: this function is also accessible via the **OPTION** key on the remote control.

Sleeptimer

This sets a time period after which the TV automatically switches to standby.

1. Select **Sleeptimer**.
2. Press the cursor right.
3. Select a value with the cursor up/down.
 - The list will have values from 0 to 180 minutes. When 0 is selected, the sleeptimer is switched off.

Note: you can always switch off your TV earlier or select another time set.

TV menu	Features
TV settings
Features	Childlock
Installation	Set/Change code
	On timer
	Demo
Info	

Childlock

With a 4-digit code, you are able to lock TV channels and external sources to prevent children from watching certain programmes.

1. Select **Childlock**.
2. Press the cursor right to enter the Childlock menu.
3. Enter your 4-digit code.

Note: you have to re-enter your code each time you enter the Childlock menu.

4. Select one of the menu items of the Childlock menu and press the cursor right:
 - **Lock** to lock all channels and externals:
 - **Custom lock** to lock a certain programme or to lock all the channels from a certain time.
 - o Select:
 - **Channel lock** to lock a certain TV channel or external;
 - o Press the **OK** key to activate.
 - **Lock after** to lock all programmes from a certain time onwards.
 - o Press the cursor right.
 - o Select **On** with the cursor right to set the lock.
 - o Enter the time with the cursor up/down and right.
 - Select **Unlock** to disable all locks you have set.

Important: you have forgotten your code !

1. Select **Change code** and press the cursor right.
2. Enter the overriding code 8-8-8-8.
3. Enter a new personal 4-digit code.
4. Confirm your new entered code.
 - ▷ The previous code is erased and the new code is stored.

Set code/Change code

This allows you to set or change the personal 4-digit access code that is used in the different lock functions of the TV.

- o Select **Set** or **Change code**.
 - ▷ If no PIN-code exists yet, the menu item is set to **Set code**. Follow the instructions on screen.
 - ▷ If a PIN-code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.
- o Enter your code with the digit keys. All number combinations from 0000 to 9999 are valid numbers.
 - ▷ The Features menu reappears with a message confirming that your PIN-code has been created or changed.

Adjust feature menu settings (Continued)

EN

TV menu	Features
TV settings
Features	Sleeptimer
Installation	Childlock
	Set/Change code
	On timer
	Demo
Info	

On timer

Notes:

- only when Teletext is present;
- only one On timer can be set.

From standby, this automatically switches the TV to the specified channel number, at a specified time.

1. Select **On timer**.
2. Press the cursor right to enter the On timer menu.
3. Select **Timer** and press the cursor right.
4. Select **On**.
5. Select **Channel** and then the TV channel you want your TV to switch to on a selected time and day
6. Select **Day** and then a day of the week or select **Daily**.
7. Select **Time** and enter the time with the digit keys or with the cursor up/down.
8. Press the **OK** key to activate.
9. Press the cursor left to return to the Features menu or press the **MENU/BROWSE** key to switch off the menu.

Note: From now on, **every week**, your TV will automatically switch to the selected channel, on the selected day, at the selected time, until the On timer function is switched off again.

TV menu	Features	Demo
	Pixel Plus
	Sleeptimer	Ambilight
	Childlock	Clear LCD
	Set/Change code	Settings assistant
	On timer	Active control
	Demo	
Info		

Demo

This allows you to get an idea of the features that are part of the television.

1. Select **Demo**.
2. Press the cursor right.
3. Select a desired demo.
4. Press the **OK** key to start the demo.
 - ▷ The selected demo is played once.
5. Press the red colour key to stop the demo and to return to the demo menu.
6. Press the red colour key to exit the demo menu.

Tip: you will need this chapter only if you want to change the installation settings.

Television	TV menu
	TV channels
Multimedia	

TV menu	Installation
TV settings	Language
Features	Channels
Installation	Preferences
	Connections
	Factory settings
	Software upgrade
Info	

TV menu	
Installation	Language
Language	Language
Channels	
Preferences	
Connections	
Factory settings	
Software upgrade	
Info	

TV menu	
Installation	Channels
Language	Autom. installation
Channels	Installation update
Preferences	Manual installation
Connections	Rearrange
Factory settings	
Software upgrade	
Info	

Installation menu

This menu will adjust settings related to the initial installation of your TV.

1. Press the **MENU/BROWSE** key on the remote control.
 - ▷ The main menu appears.
2. Select **TV menu** and press the cursor right.
 - ▷ The TV Menu is moved to the left.
3. Select **Installation** and press the cursor right.
 - ▷ The Installation menu is moved to the left panel.
4. Use the cursor up/down to select the Installation menu items.
5. Press the cursor right to enter the selected Installation menu item.
6. Use the cursor keys to make a selection.
7. Press the **OK** key to activate or to confirm.
8. Press the cursor left to return to the Installation menu or press the **MENU/BROWSE** key to switch off the menu.

Select your menu language

This allows you to select your preferred menu language.

1. Select the language menu item and enter the list of available languages with the cursor right.
2. Select your language with the cursor up/down.
3. Press the **OK** key to confirm your selection.

Store TV channels

After language is set correctly, you can now search for and store the TV channels.

- Select **Channels** in the TV, Installation menu.

Automatic installation

The TV will scan the entire frequency spectrum.

- ▷ All available TV channels are searched for and stored automatically. This will take a few minutes.
- ▷ When the search is complete, the menu will indicate the number of channels found.

How to search for and store TV channels (Continued)

EN

TV menu	
Installation	Channels
Language	Autom. installation
Channels	Installation update
Preferences	Manual installation
Connections	Rearrange
Factory settings	
Software upgrade	
Info	

Installation update

This allows you to automatically tune to and update all available channels.

Notes:

- this will not reinstall uninstalled channels;
- new channels found will not be added to any favourite list;
- already installed channels will not be renumbered.

TV menu/Installation	
Channels	Manual installation
Autom. installation	System
Installation update	Search
Manual installation	Fine tune
Rearrange	Store current chan.
	Store as new chan.
Info	

Manual installation

This gives you the possibility to manually install (tuning-in channel by channel) TV channels.

1. Select **Manual installation** and press the cursor right.
2. Select **System**.
3. Select **Search** and press the cursor right.
4. Select the red or green colour key to proceed.

Tip: if you know the frequency, enter the 3 digits of the frequency with the digit keys 0 to 9 (For example, 049).

5. Press the cursor left to store the channel found or to search for another channel.
6. Select **Fine tune** and press the cursor right.
Fine tuning can be useful when the frequency has shifted a bit or when interference of another frequency occurs. Adjust the frequency with the cursor up/down in case of poor reception of the channel found.
7. Select **Store current channel** if you want to store the (fine tuned) frequency under the current channel number. Press the cursor right and confirm with the **OK** key.
8. Select **Store as new channel** if you want to store the (fine tuned) frequency under a new channel number. Press the cursor right and confirm with the **OK** key.
9. Use the rearrange menu to rename or reshuffle the channels. See next page.

Note: select **System (PAL BG, PAL I, PAL DK or NTSC M)**

TV menu	
Installation	Channels
Language	Autom. installation
Channels	Installation update
Preferences	Manual installation
Connections	Rearrange
Factory settings	
Software upgrade	
Info	

TV menu/Installation	
Channels	Rearrange
Automatic instal...	0
Installation update	1
Manual installation	2
Rearrange	3
	4
	5
	6
	7
Info	

Rearrange	
0	
1	
2	
3	
4	
5	
6	
7	

Rename
 Uninstall
 Move up
 Move down

This allows you to rename, to reshuffle and to uninstall or reinstall the stored channels.

- Press the corresponding colour keys and follow the on screen instructions.

Reshuffle

This allows you to change the order of the stored TV channels.

- Select the channel you want to change place.
- Press the yellow colour key to move up a single position in the list.
- Press the blue colour key to move down a single position in the list.
- Repeat to reshuffle other TV channels.

Rename

This allows you to change the name stored in the memory or to assign a name to a channel or external for which a name has not yet been entered.

- Select the channel you want to rename.
- Press the red colour key on your remote control.
- Select the characters with the cursor up/down. Select the following position with the cursor right.
- Press the green colour key or the **OK** key when finished.

Notes:

- press the yellow colour key to delete all characters. The cursor is positioned at the beginning again;
- press the blue colour key to delete the character the cursor is positioned. Enter a new character with the cursor up/down;
- a name can be given to the channel numbers 0 to 999;
- space, numbers and other special characters are located between Z and A.

- Select another channel number and repeat steps 2 to 5.

Uninstall - reinstall

This allows you to uninstall a stored channel or external so that it is no longer possible to tune to. This also allows you to reinstall an earlier uninstalled channel.

- Select the channel you want to uninstall.
- Press the green colour key to uninstall the selected channel.
 - The uninstalled channel is indicated in the list by an icon in front of the uninstalled channel.
- Press the green colour key again to reinstall the uninstalled channel.

Set your preferences

EN

TV menu	
Installation	Preferences
Language	Location
Channels	Teletext 2.5
Preferences	OSD
Connections	Programme title
Factory settings	Colour
Software upgrade	PLL
Info	

This menu contains items that can set or adjust various special TV functions and that will typically be accessed only occasionally.

Select your location

This allows you to select the location of your TV.

If you choose for **Shop** it will result in fixed settings of picture, sound and ambilight.

The location **Home** will give full flexibility to change any predefined settings for picture, sound and ambilight.

Select Teletext 2.5

Some broadcasters offer the opportunity to see more colours, other background colours and nicer pictures in the teletext pages.

- Select **Teletext 2.5 On** to take advantage of this feature.
- Select **Teletext Off** if you like the more neutral teletext layout.
 - ▷ The selection made is valid for all the channels which broadcast Teletext 2.5.

Note: it may take a few seconds before teletext broadcast switches over to Teletext 2.5.

Select the On Screen Display (OSD)

This allows you to select the display of the volume bar and a reduced or extended on screen display of programme and channel information.

- Select **Minimum** to activate the display of reduced channel information.
- Select **Normal** to activate the display of extended channel and programme information. For example, information on the programme, input signal quality of connected peripheral equipment, the screen format and sound mode, selected audio language, subtitle language, ratings, remaining time of the sleeptimer setting,...

Display a Programme title

This allows you, to display the programme title according to the transmitted information.

- ▷ When selected **Yes**, after the selection of a TV programme or after you press the **(i+)** key on the remote control, a programme title will be displayed if transmitted.

Colour

This allows you to manually select the correct colour system.

PLL

This enables you to select a different setting for the picture decoding.

TV menu	
Installation	Connections
Language	AV1
Channels	AV2
Preferences	AV3
Connections	HDMI 1
Factory settings	HDMI 2
Software upgrade	VGA
	Side
	AUDIO IN L/R
	Digital Audio IN
Info	

This allows you to select the peripheral equipment you have connected to the audio and video connectors.

1. Select **Connections**.
2. Press the cursor right.
3. Select the input to which the peripheral equipment is connected.
 - When you select **EXT1, EXT2, EXT3, HDMI 1, HDMI 2, VGA, Side, AUDIO IN L/R** or **Digital Audio In**, a list appears which allows you to identify which type of peripheral equipment is attached to this input.
4. Press the cursor right again to enter the list of types of peripherals connected to the selected input.
5. Select the peripheral equipment with the cursor up/down.

Digital Audio In

- If a peripheral equipment has a digital audio output, you can connect this with a single cable to the TV's **Digital Audio In** connector.
- In the Connections menu, assign the **Digital Audio In** to the corresponding external input to which your peripheral equipment is connected..

In addition to accepting audio input via Digital Audio In, the TV can output encoded Dolby Digital audio via the **DIGITAL AUDIO OUT** connector to an external amplifier or receiver. If your amplifier or receiver has a matching connector for Digital Audio In, you can connect it with a single cable to the TV's **DIGITAL AUDIO OUT**.

See To make video and audio connections, Connect a Home Cinema amplifier, p. 47.

Reset the Factory settings

EN

TV menu	
Installation	Factory reset
Language	
Channels	Reset
Preferences	
Connections	
Factory settings	
Software upgrade	
Info	

This allows you to reset most of the predefined factory states.

1. Select and press the cursor right.
2. Press the **OK** key to erase settings and reset them to their default values.

How to upgrade the TV software

TV menu	
Installation	Software upgrade
Language	Current softw. info
Channels	Local upgrades
Preferences	Announcement
Connections	
Factory settings	
Software upgrade	
Info	

This allows you to upgrade your TV software using a USB device.

USB device upgrade

It is possible to initiate an upgrade procedure from a USB device before you start up the TV. The memory device must be filled with the appropriate upgrade image (and structure) which can be found on the www.philips.com/software website.

How to upload a new software version on your memory device, see Annex 2, Philips TV software upgrade with portable memory, p. 52.

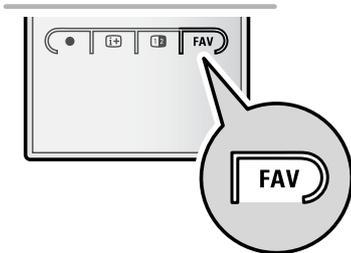
Automatic software announcement

When you switch on your TV a message may appear that a new software upgrade is available.

- Press the red colour key on the remote control if you want to be reminded later on.
- Press the green colour key on the remote control to confirm you have read the message.
 - ▷ Once you have confirmed, the message will not pop up again.

If however, you want to see the last broadcasted announcement again, select Announcement in the Software upgrade menu.

Note: as long as the software upgrade has not been executed, the message will be available.



This allows you to select up to four favourite channels lists with your preferred TV channels and radio stations. For example, each member of your family can create his/her own favourite list. In addition to the favourite channel lists you may also select a list with only digital TV channels or a list with only the radio channels or a list with only the analogue channels.

Note: when this key is pressed the first time after you have finished the installation, it will bring up the full channel list. In other situations it will bring up the last selected channel list.

To select a channel from the displayed favourite list

1. Press the **FAV** key (or the **OK** key).
 - The last selected channel list appears.
2. Use the cursor up/down to select a channel.
3. Press the **OK** key to display the selected channel.

All channels	
EXT1	
EXT2	
HDMI	
1 Analogue channel 1	
2 Digital channel 1	
3 Digital channel 2	
4 Radio channel 1	
5 Data channel 1	
Change list	
Tune to a channel by pressing OK. Use -P+ for page up/down.	

To select another favourite channel list

1. Press the **FAV** key.
 - The last selected channel list appears.
2. Press the red colour key to bring up the list of possible favourite channel lists.
3. Use the cursor up/down to select a list.
4. Press the **OK** key.
5. Press the **FAV** key again to exit.

All channels	
All	
TV channels	
Radio channels	
Analogue	
Favourites 1	
Favourites 2	
Favourites 3	
Favourites 4	
Change list	
Use cursor up/down to select and OK to confirm.	

To create a favourite list or to modify the list

1. Press the **FAV** key.
 - The last selected channel list appears.
2. Press the red colour key.
 - A list with all possible favourite channel lists appears.
3. Use the cursor up/down to select a Favourites (1 to 4) channel list.
4. Press the **OK** key.
5. Press the green colour key to enter the Edit mode.
 - The selected Favourite list will bring up a full channel list.
6. Use the cursor up/down to select a channel.
7. Press the **OK** key to check or uncheck the highlighted channel and to add it to or remove it from your selected favourite list.
- 8a.
 - Press the green colour key again to leave the Edit mode.
 - The modified favourite channel list appears.
 - Press the **FAV** key again to exit.
 - With the **-P+** key you will be able to browse through the TV channels of the selected list.
- 8b. Press the red colour key to remove the channel list.

Favourites 1	
<input checked="" type="checkbox"/> EXT1	
<input checked="" type="checkbox"/> EXT2	
HDMI	
1 Analogue channel 1	
<input checked="" type="checkbox"/> 2 Digital channel 1	
<input checked="" type="checkbox"/> 3 Digital channel 2	
4 Radio channel 1	
5 Data channel 1	
Exit	Leave edit
Press the OK key to mark / unmark.	

Note: with the digit keys you can still select channels which are not marked as favourite.

Multimedia Browser

EN

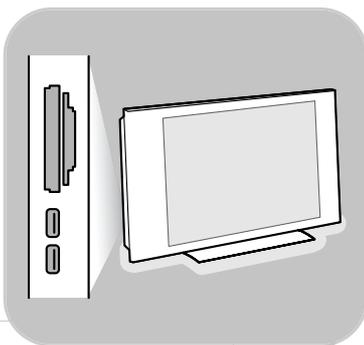


The Multimedia browser lets you display pictures and/or movies or play audio files stored on a USB device or a memory card. The Multimedia browser application is invoked from the main menu.

- Following types of memory cards can be read:
Compact flash I & II, Memory stick, memory stick PRO, SD Card/Mini SD Card, Smart Media, Micro Drive, MultiMedia Card.
- Following file formats can be reproduced:
for pictures: JPEG
for audio: MP3, MP3 Pro
for video: MPEG1, MPEG2, MPEG4, DIVX4, DIVX5 and XVID files
- Only FAT/DOS-formatted memory devices are supported.
- If your digital camera is not supported, try one of the following solutions:
 - make sure your camera is switched on and verify if its configuration settings are correct (see the manual of your camera)
 - remove the memory card from your camera and insert it in the memory card slot. Refer to www.philips.com/support for more information.
- Philips can not be held responsible if your USB device is not supported.

To view content from a Memory Card/USB device

Tip: if your USB device does not fit into the USB connector at the side, use an USB extend cable to connect the USB device to the USB port. Ask your dealer for more information.



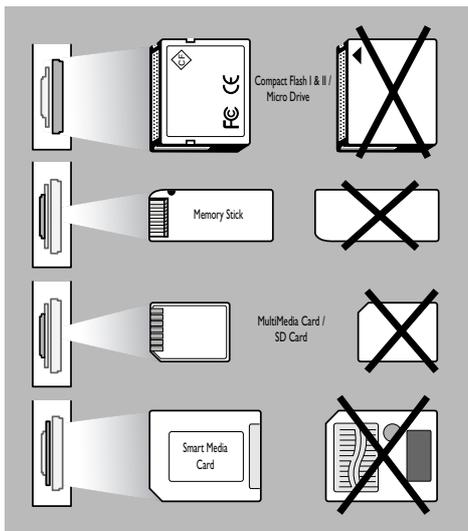
To insert a Memory card/USB device

Note: Memory cards or USB devices are not supplied with this TV.

Insert a memory card in one of the cardslots at the right side of the TV. Insert it to be clicked in.
In case of a USB-memory stick or a digital camera, connect it to one of the USB 2.0 connectors at the side.
See To make video and audio connections, Side panel overview, p. 40.
When a USB device is inserted, the Multimedia browser menu is displayed automatically. See further.

To remove the Memory card/USB device

1. Press the **MENU/BROWSE** key on the remote control to switch off the main menu.
2. Remove the Memory card/USB device.

**Card data protection**

- Do not remove the card/USB device when the content is being read or when browsing. Such action may damage the memory card/USB device.
- Do not touch the terminals on the back of the card.
- Always insert a card in the correct direction. Failure to do so may result in damage to the card and the unit.
- Do not subject the card to excessive pressure or strong impacts.
- Malfunctions of the unit or card may result in data loss or damage to the card.
- Philips shall not accept any liability for damage or loss of stored data.

Warning: memory cards can be swallowed by young children. Do not allow children to handle memory cards. Please, remove the memory card immediately after use.

Multimedia Browser (Continued)

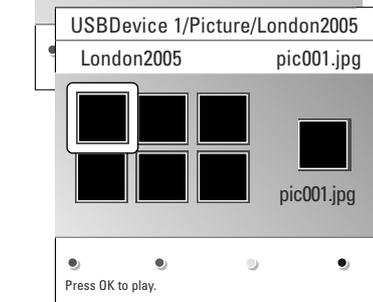
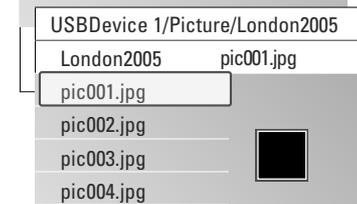
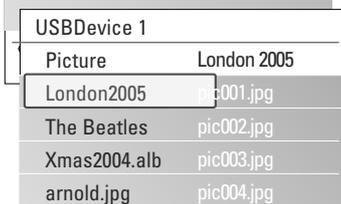
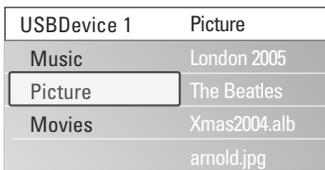
EN



Multimedia Browser menu

1. Insert a USB device or memory card.
2. Select the USB device or memory card under Multimedia with the cursor up/down.
 - ▷ The Multimedia browser allows you to browse content stored on the inserted USB device or memory card.
 - ▷ The 2-panel browser will be shown with the left panel containing the content types (Music, Pictures, Video).
 - ▷ The right panel will display the content that is available of the selected content type.
3. Press the cursor up/down to select a content.
4. Press the cursor right to enter the content.
5. Press the cursor up/down to select a file or a directory.

Note: press the green colour key to display all the image files in the current directory as thumbnails when browsing pictures. Press the green key again to display the image files in a list.



6. In case a **file** is selected, press the **OK** key to display a picture file or to play a video or an audio file. In case a **directory, album** or **playlist** is selected, press the cursor right to enter the content or press the **OK** key to start a slide show or a loop playback of the files present.
7. Press the cursor left to keep music playing and switch back to the Multimedia menu.
8. Press one of the colour keys on the remote control to perform the corresponding function mentioned at the bottom of the screen.

Tip: the blue colour key can, if necessary, be used to let the colour keys reappear.
9. To stop playing content, press the  key on the remote control.

Notes:

- your TV supports slide shows with background music. See Annex 3, Philips TV-slideshow format with background music, p. 55;
- the playback will continue to play even if temporarily switched to browser screens. The audio will be stopped when another song starts playing, or when the end has been reached;
- more technical remarks can be found in Annex 4, Philips TV-Digital camera and USB issues, p. 57.

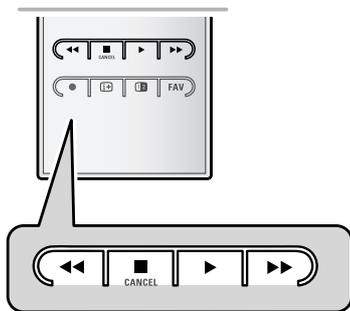
Following icons may appear:



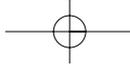
Function keys at the bottom of the screen

Details	to display a description of the selected file or directory
Transitions	to select if you like to apply a transition during a slide show
Slide time	to select the duration a picture will be displayed in a slide show
Rotate	to rotate a picture
Repeat one/all	to repeat the playback of a music file
Shuffle	to shuffle music collections in a random way
Zoom	to select one of the zoom magnifications (x1, x2, x4) with the cursor up/down. Additionally you can shift the selected zoom window over the screen with the cursor keys.
Full/small screen	to toggle between a full or a small screen

Note: to rotate a picture or to select one of the zoom magnifications, first stop the slide show with the **OK** key or the blue colour key.

**Multimedia function keys on the remote control**

- ◀◀ to fast rewind displaying content
- to stop playing content
- ▶ - to play a single file, start a slide show, playback of a folder or other collection
- to pause playing content
- ▶▶ to fast forward displaying content



Teletext

EN



Note: only English Teletext supported.

Note: Teletext will not be available via equipment connected to a HDMI connector.

Most TV channels broadcast information via teletext. This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed.

- Press to switch the teletext on.
 - The main index page appears on the screen.

Select a Teletext page

- Enter the desired page number with the digit keys or with the **-P+** key.
- Select the options at the bottom of the screen with the colour keys.

Previous selected teletext page

- Press the **P+P** key.

Select T.O.P. teletext broadcasts

- Press .
 - A T.O.P. overview of the teletext subjects available is displayed.
- Select with the cursor up/down, left/right the desired subject and press the **OK** key.

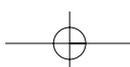
Note: not all TV channels broadcast T.O.P. teletext.

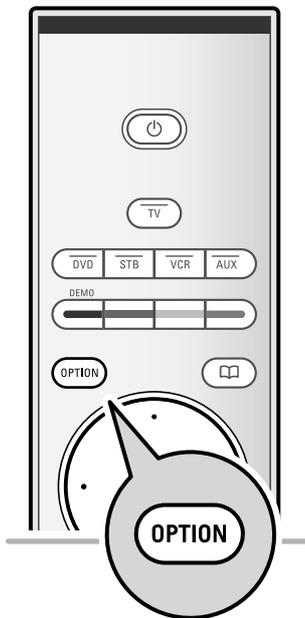
Select subpages

When a selected teletext page consists of different subpages, a list of available subpages appears on the screen. Press the cursor left or right to select the next or previous subpage.

Picture/Teletext

1. Press the key.
2. Press the key to show Teletext on the right of the screen.
3. Press the key to return to a full teletext picture.
4. Press the key to return to a full screen picture.





Menu	
Reveal	Off
Cycle subpages	Off
Language	Gr. II

Hypertext

With hypertext you can quickly jump to a pagenumber or search for a specific word shown on the current teletext page.

1. Press the **OK** key to highlight the first word or a number on the page.
2. Use the cursor up/down, left/right to select any other word or number you want to search for.
3. Press the **OK** key to confirm. The search starts.
 - ▷ A message appears at the bottom of the screen to indicate the searching, or that the word or page is not found.
4. Use the cursor up until the top of the page to exit hypertext.

Enlarge a Teletext page

- Press the **OPTION** key on the remote control repeatedly to display the upper teletext part, the lower teletext part and then to return to the normal teletext page size.

Teletext menu

The Teletext menu offers various functions to control teletext.

1. Switch teletext on and press the **MENU/BROWSE** key to activate the menu.
2. Press the cursor up/down to select the menu items.
3. Press the **OK** key to activate.
4. Press the **MENU/BROWSE** key to leave the teletext menu.

Reveal

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles.

Cycle subpages (if subpages are available)

Makes the subpages cycle automatically.

- Press the **OK** key to activate and to deactivate again.

Language

If the displayed characters on screen do not correspond with the characters used by the teletext broadcaster, you can change the language group here.

- Select **Gr. I** or **Gr. II** with the **OK** key.

To make video and audio connections

EN

Tip: use the inputs that are available on your equipment that provide the best video or audio performance, as below.

Note: your TV comes with all types of connectors with the exception of the DVI connector but some of your equipment may be equipped with this type. In this case you'll need a DVI to HDMI adapter or a HDMI to DVI cable and separate audio cables, all available at your local dealer.

Warning: be sure to connect the DVI output connector first, then connect to the HDMI input on your TV.

Best video performance

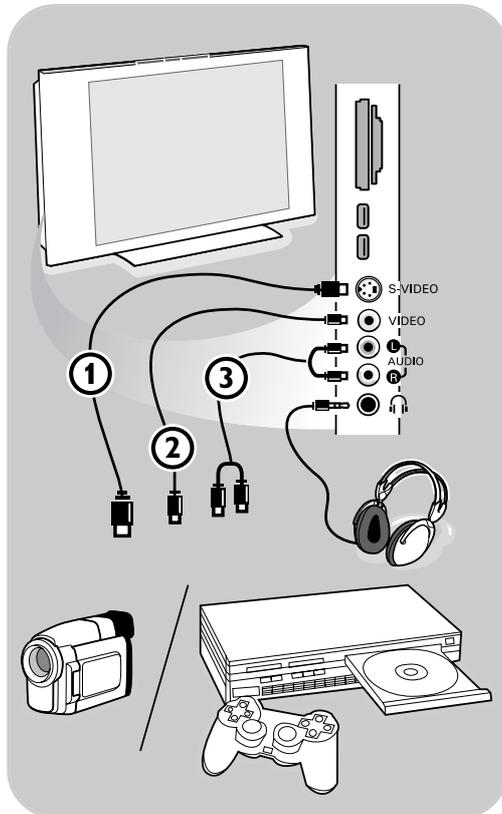
	Connector table	Audio connection required
 HDMI	HDMI (High-Definition Multimedia Interface) 	No
 EXT3	Component video (480p/576p/720p/480i/576i/1080i)  Digital audio	Yes  EXT3
 EXT3	Component video (480p/576p/720p/480i/576i/1080i)  Analog audio	Yes  EXT3
 EUROCONNECTOR	Scart 	No
 S-VIDEO	S-Video 	Yes 
 VIDEO	Video 	Yes 
 75 Ω	RF/Coaxial 	No

Notes:

- cables are often colour-coded to connectors. Connect red to red, white to white...
- component video (YPbPr) connection is necessary to view video sources, for example digital broadcastings coming from a settop box, in 1080i, 720p, 576i, 576p, 480i or 480p.
- PC equipped with a VGA connector, see p. 46.

EN

To make video and audio connections - Side panel overview

**Camera, Camcorder, Game**

1. Connect your camera, camcorder or game as shown.
2. Connect to **VIDEO** ② and **AUDIO L** ③ for mono equipment. For stereo equipment also connect **AUDIO R** ③.
S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

Warning: do not connect cable ① and ② at the same time. This may cause picture distortion !

Headphone

1. Insert the plug into the headphone socket  as shown.
2. The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.

In the Sound menu select **Headphone volume** to adjust the headphone volume.

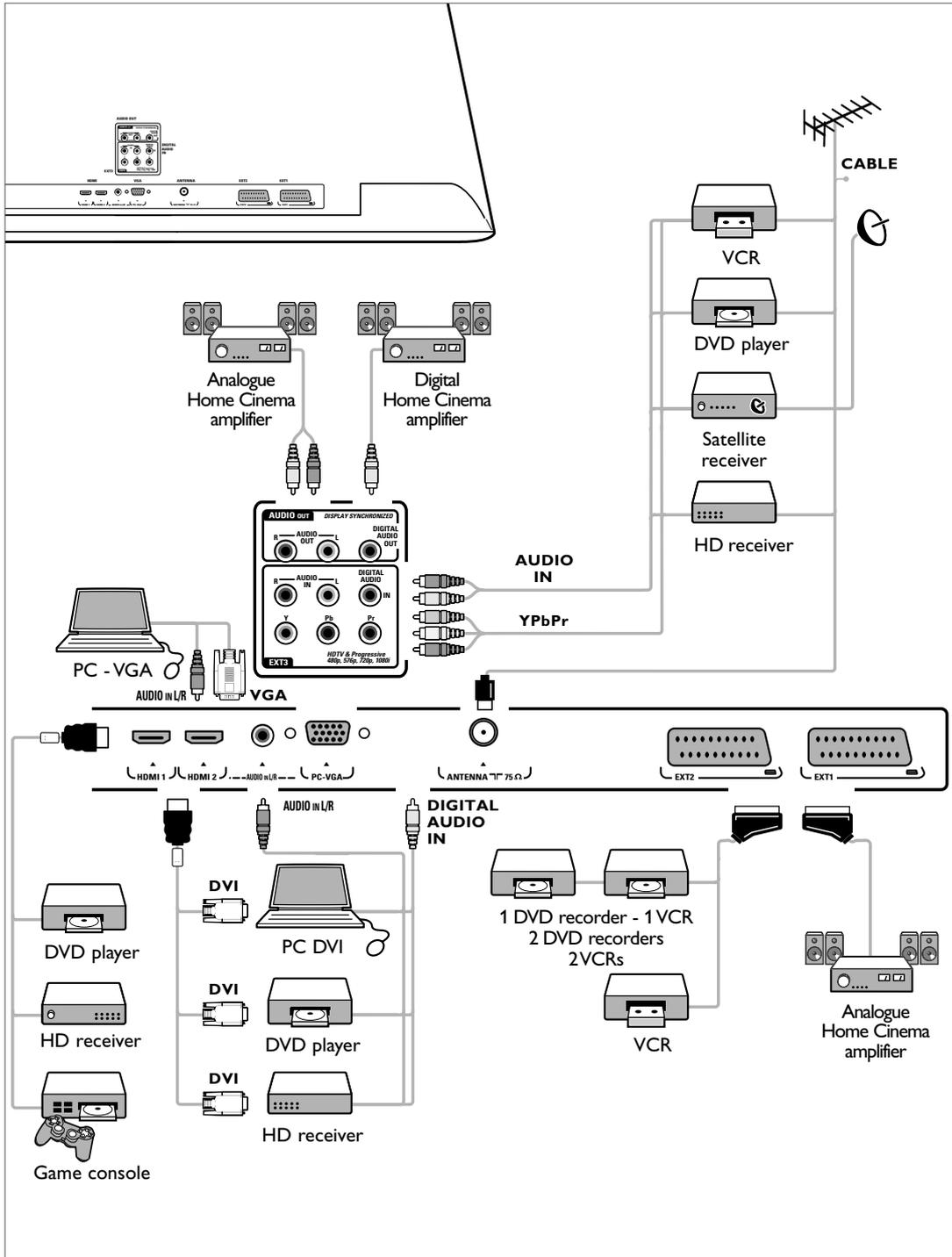
Tip: Press  on the remote control to switch off the internal loudspeakers of the TV.

USB

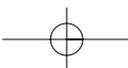
See Multimedia browser, p. 33.



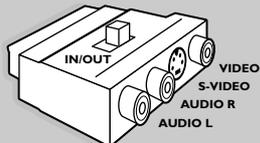
To make video and audio connections - Rear panel overview EN



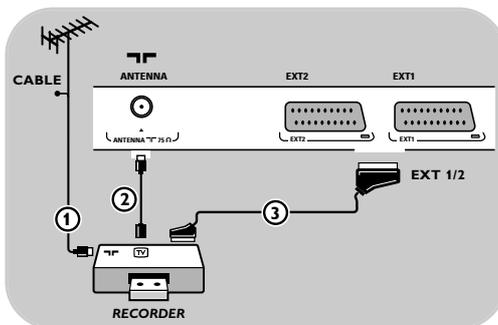
Note: EXT1 = AV1, EXT2 = AV2, EXT3 = AV3.



Warning: do not place your recorder too close to the screen as some recorders may be susceptible for signals from the display. Keep a minimum distance of 0,5 m from the screen.

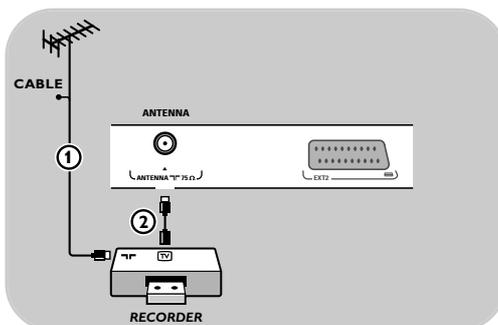


Note: Use the scart to cinch adaptor (with the switch in the **IN** position) to connect (temporary) peripheral equipment to **EXTERNAL 1** or **2**.



With a eurocable

1. Connect the RF Antenna cable ① to the **RF IN** socket of your recorder.
2. Connect another RF cable ② from the output **OUT** of your recorder to the TV's input **CABLE/ANTENNA 75 Ω** jack.
3. Better playback quality can be obtained if you also connect the eurocable ③ as shown.
4. Make your selection of the source to which the recorder has been connected in the Installation menu, Select your connections, p. 30.

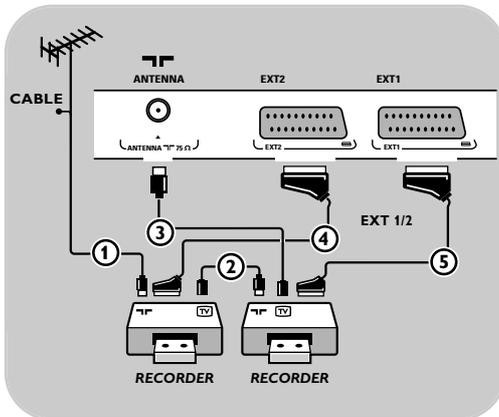


With the aerial cable only

1. Connect the aerial cables ① and ② as shown.
2. Tune in your recorder's testsignal and store the testsignal under programme number 0. See Manual installation, p. 27. See also the handbook of your recorder.

Connect two VCRs or VCR and DVD recorder

EN



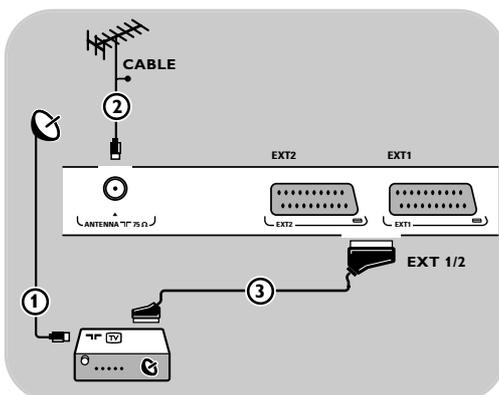
With eurocables

1. Connect the RF antenna cable ① of the **RF IN** socket of your other AV device.
2. Connect the RF output of the AV device to the RF input of the recorder ②.
3. Connect another RF cable ④ from the RF output of your recorder to the TV's input 75 Ω **ANTENNA** jack.
4. Tune in your recorder's testsignal and store the testsignal under programme number 0. See Manual installation, p. 27. See also the handbook of your recorder.
5. To obtain better picture quality, also connect your VCRs or DVD recorder to **EXT1** and **EXT2** with the eurocables ④ and ⑤.
6. Select the equipment you have connected in the Installation menu, Select your connections, p. 30.

With aerial cables only

1. Connect the aerial cables ①, ② and ③ as shown.
2. Tune in your recorder's testsignal and store the testsignal under programme number 0. See Manual installation, p. 27. See also the handbook of your recorder.

Connect a satellite receiver



With a eurocable

1. Connect the RF antenna cable ① to the **RF IN** socket of your satellite receiver.
2. Connect another RF antenna cable ② to the TV.
3. Connect your satellite receiver to **EXT1** and 2 with a eurocable ③.
4. Select the equipment you have connected in the Installation menu, Select your connections, p. 30.

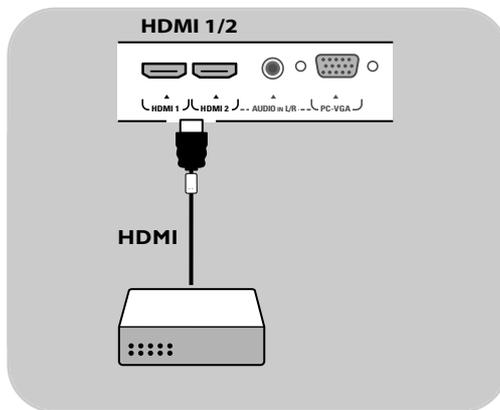
With Component Video connectors

See Connect a DVD player, a satellite receiver or a HD receiver, p. 45.

EN

Connect a DVD player, HD receiver box or game console

Tip: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.



With a HDMI connector

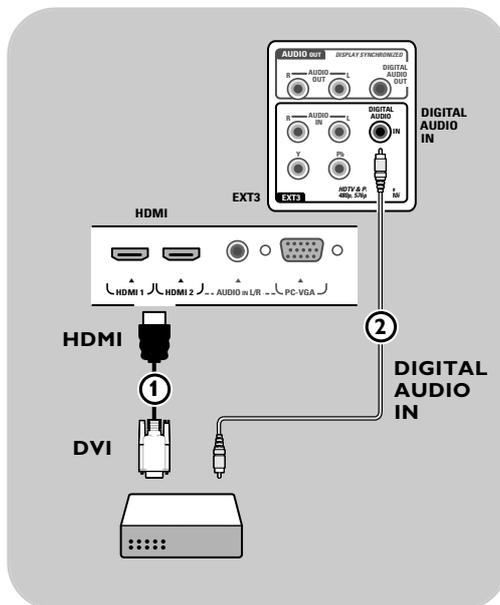
HDMI is the leading new standard for Digital video and audio interconnection.

1. Connect your equipment with the **HDMI** connector.
2. Select the equipment you have connected in the Installation menu, Select your connections, p. 30 and link it to **HDMI 1** or **2**.

Note: in case of any problems, see Annex 5: Issues referring to connected peripherals with a HDMI connector; p. 58.

Connect a DVD player or HD receiver

Tip: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.



With a DVI connector

Note: only a DVD player with DVI with digital sound can be connected to the **HDMI** connector.

With Digital audio

1. Use a DVI to HDMI cable to connect to one of the **HDMI** connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 30 and link it to **HDMI 1** or **2**.
4. Also select **Digital audio In** in the same Connections menu.

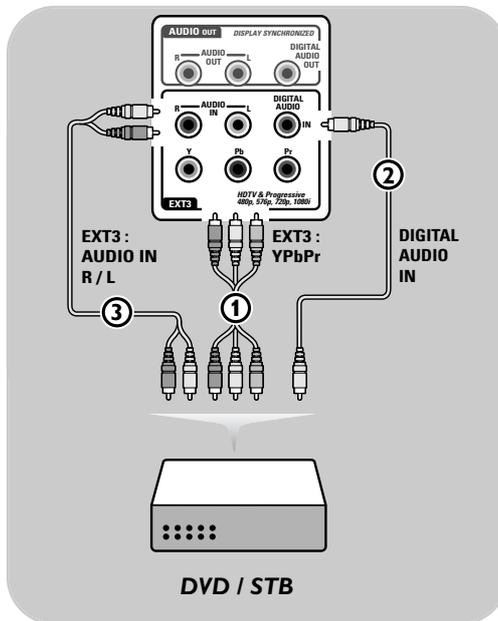
With Analogue audio

1. Use a DVI to HDMI cable to connect to the **HDMI 2** connector of your TV ①.
2. Connect the audio cable ③ to the **L/R AUDIO** input of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 30 and link it to **HDMI 2**.
4. Also select **AUDIO IN L/R** in the same Connections menu

Connect a DVD player, a satellite receiver or HD receiver

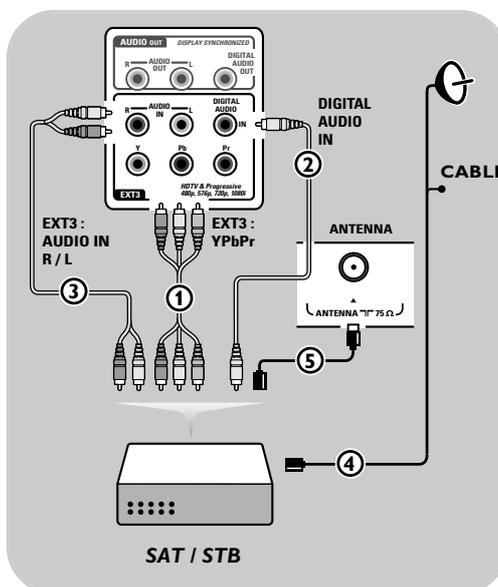
EN

Tip: if necessary, you can adjust the picture position to the centre of the screen with the cursor keys.



With Component Video Connectors

1. Connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y, Pb** and **Pr** jacks of **EXT3** on the TV.
2. Connect the audio cable ② to the digital out of the equipment and to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 30, and link it to **EXT3**. Also select **Digital audio in** in the same Connections menu.
4. In case of a DVD player with analogue audio, connect the three separate component video cables ① to the YPbPr jacks on the DVD player and to the **Y, Pb** and **Pr** jacks of **EXT3** on the TV. Connect the audio cable to the DVD's audio **L** and **R** jacks and to the **AUDIO IN L/R** jack of **EXT3** ③.
5. In case of a HD receiver and/or a satellite receiver also connect the cable TV cable and/or the satellite antenna cable ④ and the aerial cable ⑤.



Notes:

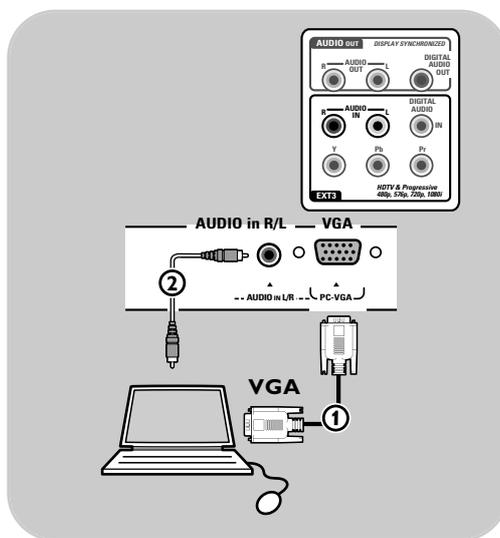
- cables are often colour coded. Connect red to red, white to white, etc.;
- the labels for the component video sockets may differ depending on the DVD player connected. Although the abbreviations may vary, the letters **B** and **R** stand for the blue and red component signals, respectively, and **Y** indicates the luminance signal. Refer to the DVD player's instructions for use for definitions and connection details;
- to get an optimal viewing, it is advised to switch your equipment to the highest possible supported display modes.

Warning: in case you notice scrolling images, wrong colours or no colour, no picture, or even combinations of these on your screen, verify if the connections are done in the correct way and if the resolution and the signal standard of the connected equipment are set in the right way. See the handbook for your equipment.

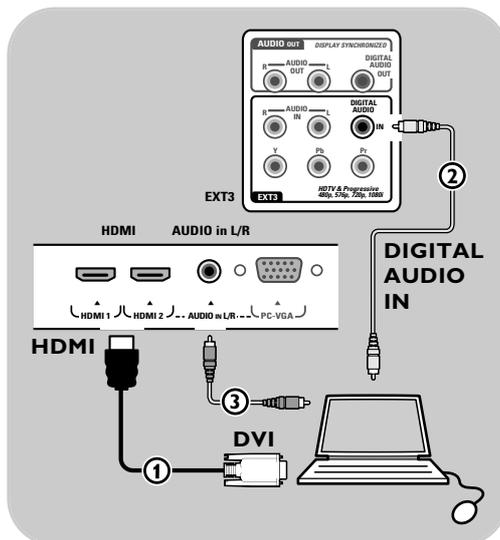
Note: This television is designed to accept high definition signal standards 480p, 576p, 720p and 1080i as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.

Notes:

- only a PC with digital sound can be connected to the **HDMI** connection;
- if your PC does not have digital sound output, connect your PC via a VGA connector or via **HDMI 2** and the **L/R AUDIO** input of the TV;
- before connecting your PC to the TV, select your PC monitor settings to a refresh frequency of 60 Hz;
- supported PC monitor modes:
 - VGA 640 x 480
 - SVGA 800 x 600
 - XGA 1024 x 768

**PC equipped with a VGA connector:**

1. Connect one end of a VGA cable ① to the video card of the computer and the other end to the **VGA** connector at the bottom of the TV. Fix the connector firmly with the screws on the plug.
2. In case of a Multimedia computer, connect the audio cable ② to the **AUDIO** outputs of your computer and to the **L/R AUDIO** input of the TV.
3. Select **VGA** in the Installation menu, Select your connections, p. 30, and link it to **VGA**.
4. Also select **AUDIO IN L/R** in the same Connections menu.

**PC equipped with a DVI connector:****With Digital audio**

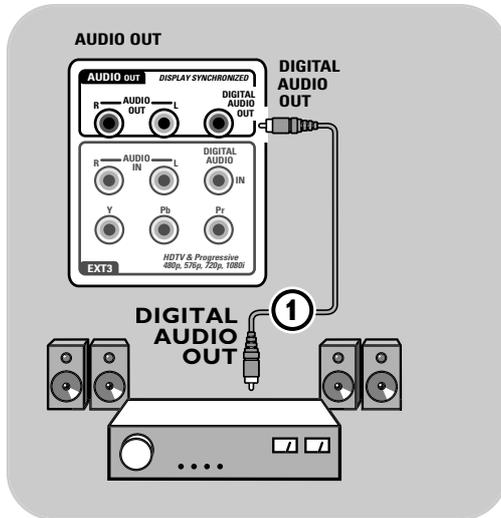
1. Use a DVI to HDMI cable to connect to one of the **HDMI** connectors of your TV ①.
2. Connect the audio cable ② to the **DIGITAL AUDIO IN** connector of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 30 and link it to **HDMI 1** or **2**.
4. Also select **Digital audio In** in the same Connections menu.

With Analogue audio

1. Use a DVI to HDMI cable to connect to the **HDMI 2** connector of your TV ①.
2. Connect the audio cable ③ to the **L/R AUDIO** input of the TV.
3. Select the computer you have connected in the Installation menu, Select your connections, p. 30 and link it to **HDMI 2**.
4. Also select **AUDIO IN L/R** in the same Connections menu

Connect a Home Cinema amplifier

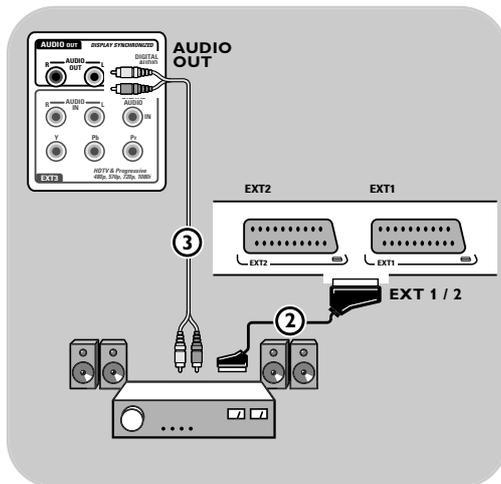
EN



Tip: to avoid visible delay between picture and sound, use this **DIGITAL AUDIO OUT** connector to connect your Home Cinema amplifier.

Digital Home Cinema amplifier

- Connect a digital Home Cinema amplifier to the **DIGITAL AUDIO OUT** connector ① at the bottom of the TV.



Analogue Home Cinema amplifier

- Connect your Home Cinema amplifier to the **AUDIO OUT L and R** connectors ③ or to **EXT1** or **2** ② at the bottom of the TV.

EN

Select connected equipment



Before operating your connected equipment you have to make a selection in the Installation, Select your connections menu, p. 30.

1. Press the **MENU/BROWSE** key.
2. Select **TV MENU** and press the cursor right.
3. Select **Installation**.
4. Press the cursor right.
5. Select **Connections**.
6. Press the cursor right.
7. Select the input to which the peripheral equipment is connected.
8. Press the cursor right again to enter the list of types of peripherals connected to the selected input
9. Select the peripheral equipment with the cursor up/down.

Record with your recorder

Record a TV programme

You can record a TV programme using your recorders tuner without affecting your TV.

1. Select the channel number on your recorder.
2. Set your recorder to record.
See the handbook for your recorder.

Note: switching channel numbers on your TV does not disturb recording !

Audio- and video equipment keys

EN



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

- Press one of the keys after you pressed one of the mode keys (**DVD, STB, VCR, AUX**) according to the equipment you want to operate with this remote control. See Use of the Remote control, p. 5-6.

	to switch to standby
	for record,
	for rewind (VCR, CD);
	search down (DVD)
	for stop,
	for play, for pause
	for fast forward (VCR, CD);
	search up (DVD)
	to display information
MENU/BROWSE	to switch the menu on or off
- P +	for chapter, channel, track selection
0 to 9	digit entry,
cursor up/down	to select the next or the previous disc (CD)
cursor left/right	to select the previous or following track (CD)
P+P	to select a DVD title/chapter; index (AUX)
	to select your choice of subtitle language (DVD)

Normal mode : if no action is being undertaken within 30 seconds, the remote control returns to TV mode.

Expert mode : in Expert mode the remote will stay in the selected mode even when the 30 seconds time-out is elapsed.

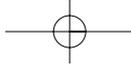
To select between Normal and Expert mode :

- Select TV mode with the TV key.
- Press the **OK** key simultaneously with the key for four seconds.
 - When the key is On for one second, the Expert mode is selected and the remote control will remain in the mode selected.
- Select the desired mode (**DVD, STB, VCR, AUX**).
- To go back to the TV mode, select **TV** and repeat steps 1. to 3.

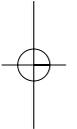
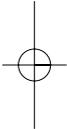


Symptom	Possible cause/Remedy
No picture	<ul style="list-style-type: none"> o Verify if the supplied cables are connected properly. (The aerial cable to the TV, the other aerial to your recorder, the power cables, ..) o Verify if you selected the correct source. o Verify if the child lock has been switched off.
Poor picture	<ul style="list-style-type: none"> o Verify in the Manual installation menu if you have selected the correct TV system. o Verify if your TV or house aerial isn't located too close to loudspeakers, non-earthed audio equipment or neon lights, etc. o Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial. o Is the picture or teletext unrecognisable. Verify if you have entered the correct frequency. See Installation, Manual installation, p. 27.
Poor colour	<ul style="list-style-type: none"> o Select Factory settings in the Installation menu. o Verify the connections between the optional equipment and the TV.
No sound	<ul style="list-style-type: none"> o Verify if the volume isn't at minimum. o Verify if the sound hasn't been muted with the  key. o Verify the connections between the optional equipment and the TV.
Sound and picture interruptions using HDMI to HDMI connection	<ul style="list-style-type: none"> o If it occurs occasionally, perhaps there is something wrong with the broadcasted programme. o If it occurs persistently, see the manual of your connected equipment to verify the necessary adjustments. o Alternatively, connect an extra audio cable (either an analogue or a digital audio cable) from your connected peripheral to your TV. Verify whether you selected the connected equipment in the Installation menu, Select your connections and also select the respective audio input in the same Connections menu. Note: An analogue audio cable must be linked to HDMI 2. o Limit the HDMI cable length to max 5 m. o Verify if the connected equipment is properly selected in the Installation menu, Connections, according to the connection you have made HDMI 1 or 2.
No sound when using DVI to HDMI connection	<ul style="list-style-type: none"> o Verify whether you properly connected the audio cable to the DIGITAL AUDIO IN connector of the TV. o Verify whether you selected the connected equipment in the Installation menu, Select your connections and if you linked it to HDMI 1 or 2 according to where you made the connection. Also verify if you selected digital audio in in the same Connections menu.
The remote does not function	<ul style="list-style-type: none"> o Verify if the remote is set correctly for the equipment your are using. o Verify if the batteries are not dead. Replace the batteries. You can still use the keys at the right side of the TV. o Select TV mode on your remote control. o When pressing a key and some key leds are blinking with a higher speed and lower intensity than in a normal working condition, and your TV does not react on the key press, remove the batteries out of the remote control and put them back again.



**Troubleshooting (Continued)****EN**

Symptom	Possible cause/Remedy
The remote of connected equipment does not function well	<ul style="list-style-type: none">◦ The infrared signals of the screen may influence the reception sensibility of other peripherals. Solution: replace the batteries of the remote of other peripheral equipment.
No photo or music play or in poor quality	<ul style="list-style-type: none">◦ Verify if the source complies with a supported code.
No stable or not synchronised VGA picture	<ul style="list-style-type: none">◦ Verify if you have selected the correct VGA mode in your PC. See Connect a PC, p. 46.◦ Verify the connections between the PC and the TV.
No solution found for your picture or sound problem	<ul style="list-style-type: none">◦ Switch off your TV off and then on again once. Never attempt to repair a defective TV yourself. Verify with your dealer or call a TV technician.
Red blinking led	<ul style="list-style-type: none">◦ Unplug the mains cord for 10 seconds and insert it in again.



Introduction

Philips continuously tries to improve its products and it wants you to profit of that even after your purchase. Therefore it allows you to upgrade your TV software using a USB memory device (not supplied). You can execute the software upgrade procedure yourself.

TV menu	
Installation	Software upgrade
.....	Current softw. info
Channels	Local upgrades
Preferences	Announcement
Connections	
Factory settings	
Software upgrade	
Info	

Verifying the version of the TV software

Before starting the software upgrade procedure, it is advised to check what your current TV software is.

1. Select **Software upgrade** in the Installation menu.
2. Press the cursor right.
The Software upgrade menu moves to the left panel.
3. Select **Current software info** to observe the version and the description of the current software.

Preparing a USB portable memory for software upgrade

What do you need ?

- A personal computer with web browsing capability.
- An archive utility that supports the ZIP-format (e.g. WinZip for Windows).
- A preferably empty USB portable memory.

Note: Only FAT/DOS-formatted portable memory is supported.

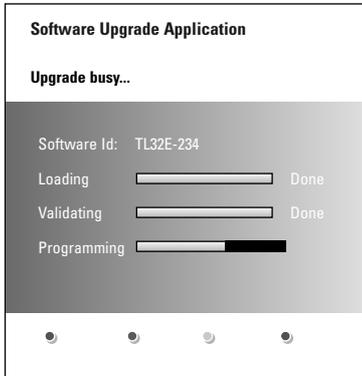
New software can be downloaded from the www.philips.com/support website.

1. Insert a USB portable memory device into a PC linked to the internet.
2. Go to www.philips.com/support.
3. Choose your country or area/language.
4. Enter your model number.
5. In the **Search results**, click on the model number.
6. Under **Product support**, click on **Software and drivers**.
7. Click on the **Firmware Upgrade zip file**.
8. Click on the **Download** arrow in the upper left corner of your screen.
9. Save the latest software upgrade file to your computer.
10. Double click on the zip-file and copy the file "autorun.upg" to the root directory on the USB portable memory.

Note: Only use software upgrades that can be found on the www.philips.com/support website.

Annex 1 (Continued)

EN



Upgrade the TV software

1. Switch off your TV and remove all memory devices.
2. Insert the USB portable memory that contains the downloaded software upgrade.
3. Switch on your TV with the power key  at the side of the TV.
4. The upgrade process starts automatically. After a few seconds the status of the upgrade procedure is displayed.

Warning:

- You are not allowed to remove the USB portable memory during the software upgrade procedure;
- In case of a power drop during the upgrade procedure, don't remove the USB portable memory from the TV. The TV will continue the upgrade as soon as the power comes back;
- If an error occurs during the upgrade you should retry the procedure or contact your Local Customer Service Centre.

5. When the message **Operation successful** appears, remove the USB portable memory and restart your TV with the power switch  at the side of the TV. Your TV will start up with the new software.

Note: once the upgrade is finished use your PC to remove the TV software from your USB portable memory.

If you need further assistance or in case of problems, please call your local Philips Customer Centre. See Philips Consumer Care on the www.philips.com/support website.

TV menu	
Installation	Software upgrade
.....	Current softw. info
Channels	Local upgrades
Preferences	Announcement
Connections	
Factory settings	
Software upgrade	
Info	

Local software upgrade procedure

New software, or the currently installed software version, can also be obtained from the www.philips.com/support website.

1. Go to **www.philips.com/support** using the web browser of your PC.
2. Follow the procedure to find the information and the software related to your TV.
3. Select the latest software upgrade file and download it to you PC.
4. Decompress the ZIP-file.
Rename the resulting file "autorun.upg" to for ex. "upgrade.upg".
Move the renamed file to the subdirectory "Upgrades".

Remark: if there is no subdirectory "Upgrades" present, please create one.

5. Insert the portable memory that contains the downloaded software upgrade.
6. Select **Software Upgrade** in the Installation menu. Go to **Local upgrades**.
The TV will list all compatible software available on the USB portable memory and display the data for each selected upgrade version.
7. Select the correct upgrade version and press the red colour key to start the upgrade.
Your TV will restart and will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

Warning: if you try to upgrade to a software version equal or lower than the current version, a confirmation will be asked. Downgrading to older software should only be done in case of real necessity.

8. When the software upgrade was successful, remove the USB portable memory and restart your TV with the power switch (⏻) at the side of the TV. Your TV will start up with the new software.

Note: Only use software upgrades that can be found on the www.philips.com/support website.

Annex 2 - Philips TV-Slideshow Format with background music

EN

Notes:

- the latest version of this document can be found on the Philips support website (www.philips.com/support).
- Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible for any problems that may occur as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

Introduction

This document explains how to make a Philips slideshow file with background audio. Be aware that the content of this document is addressing technical or software skilled users. To start the slideshow open the slideshow file in the Multimedia browser of your TV.

1. Press the **MENU/BROWSE** key on the remote control after having inserted a USB device and switched on the TV.
2. Go to where you stored the slideshow file (.alb) on your portable memory.
3. Select the slideshow file and press the **OK** key to start the slide show.
4. To stop a slide show, press the **■** key.

General Rules

- The slideshow will use plain ASCII XML syntax to allow the creation and editing of the slideshow files using simple tools.
- All references to network content must be based on the global address of the content.
- Content on a Portable Memory (PM) doesn't have a global address; as a result content from a PM can never be referenced from a slideshow not stored on the PM itself.
- To maintain portability, a slideshow stored on a PM should **ONLY** reference content on the same PM. Referencing global addresses can result in inconsistencies if the PM is used on a non-networked CE device. The latter is however not forbidden, it is only a recommendation.
- It is preferable that URL's referencing PM content are based on a relative path starting from the directory where the slideshow is stored. This path includes the device or drive name of the PM. An absolute path to content will also be supported.
 - relative path: pictures\test1.jpg, tamper.jpg, ..\new\bird.jpg, ...
 - absolute path: USB1:\pictures1\foo_bar.jpg, C:\f1.jpg, \organization.jpg, ...

General Format

The format and syntax below will be used to create the slideshow file (simple ascii text) with the extension .alb (.ALB). Examples: slshow1.alb, summer_holiday_2004.ALB, test.alb, ...

The following syntax should be used to create the text file:

```
<?xml version="1.0" encoding="ISO-885h9-1" ?>
<philips-slideshow version="1.0" >
  <title>Title of the slideshow</title>
  <audio>audio_url</audio>
  <slide-duration>30</slide-duration>
  <slides>
    <slide>slide_1_url</slide>
    <slide>slide_2_url</slide>
    <slide>slide_3_url</slide>
    <slide>slide_4_url</slide>
    <slide>slide_5_url</slide>
    <slide>slide_6_url</slide>
    ...
    <slide>slide_N-1_url</slide>
    <slide>slide_N_url</slide>
  </slides>
</philips-slideshow>
```

Supported XML-tags

The following table gives a description of the XML syntax.

Tag Name	Use	Description
philips-slideshow	mandatory	Philips slideshow signature including the version.
title	optional	The title of the playlist.
audio	optional	The audio-URL following this tag will define the music playing in the background during the slideshow. A single song or playlist (.m3u & .pls) are the only valid audio references. Other reference will not result in any audio playback. If a single song is referenced the song will be repeated forever. If a playlist is referenced the playlist will be played in sequence with a repeat at the end of the playlist.
slide-duration	optional	The default display time (in 0,1 second) of a slide. The TV application isn't obliged to support this tag. The TV application can force the use of one or multiple predefined display times.
slides	mandatory	Identifies the slides to show.
slide	optional	Identifies the URL of the individual slide.

Annex 3 - Philips TV - Portable memory and USB issues

EN

Notes:

- the latest version of this document can be found on the Philips support website (www.philips.com/support);
- the software of your TV is upgradeable. If you have problems first check if you have the latest software installed on your TV. The latest software, together with instructions, can be found on the Philips support website. Use the type number of your TV to find this documentation and other related files.
- Philips can't be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Philips will be adapted and published on the Philips support website as soon as possible.

Digital Content Issues

- Only FAT (DOS) formatted (initialized) portable memory is supported. Errors in this formatting can result in unreadable content. If such problems appear try to re-format the card. Be aware that formatting the card will also delete all the content on it (pictures, music, ...).
- The following file types are supported: .jpg, .jpeg, .mp3, .alb, .m3u and .pls.
- Only linear JPEG picture formats are supported. Progressive JPEG encodings are not supported.
- The length of a filename or directory name is limited to the length specified by the FAT12/16/32 file systems.
- Max. levels of nested directories is 19.
- Never use the supported file type extensions (.jpg, .jpeg, .mp3, .alb, .m3u and .pls) as extensions for directories as these directories will be treated as corrupted files.
- The MP3 decoder does not support MPEG1 Layer 1 or Layer 2 playback.
- MP3 Pro files can be played with normal MP3 quality.
- The access and response time of the content on a device can differ depending on the type or brand of the device.
- The access and response time of the content on a device will decrease the more unsupported or corrupted files are on the device.

Portable Memory Issues

- The following memory cards* are supported by the digital media reader:
 - CompactFlash Card (Type I & II) (CF)
 - IBM Microdrive
 - Memory Stick + Memory Stick Pro
 - SecureDigital Card (SD)
 - SmartMedia Card (SM)
 - MultiMedia Card (MMC)
- XD cards are supported through an external XD compatible card reader (not supplied with the TV) connected to the USB connector. The same holds for other future memory cards.
- Do not apply excessive force when inserting a memory card into the digital media reader. If the memory card doesn't fit or isn't detected by the TV, try to flip over the card and re-insert it.
- When inserting multiple cards at the same time some card combinations will work. It is however recommended to insert maximum one memory card at the same time.

* Trademarks and trade names belong to their respective owners.

Digital Camera Issues

If a USB connection between your digital camera and the TV isn't working, you can try the solutions below to resolve your problem.

- Make sure your digital camera is switched on and verify if the configuration of your digital camera is correct (see the manual of your digital camera for more information).
- Some digital cameras allow you to switch off the USB interface. Make sure that the USB interface is switched on before connecting to the TV.
- Remove the memory card from your digital camera and insert it directly into the digital media reader on the right side of your TV.
- If you have a digital camera with only internal memory (no removable memory) you can try to copy the content manually to a memory card or a USB memory device (e.g. Philips KEY product) using a personal computer.
- Some digital cameras allow you to switch between PTP (Picture Transfer Protocol) or "PC Link" and USB Mass Storage or "PC Drive". Make sure that you select USB Mass Storage or "PC Drive" on your digital camera.
- If your camera supports different interface settings be sure to try them one by one or contact the reseller of your camera to find out the correct setting..

USB Memory Device Issues

- Devices connected to the USB port of your TV must be "Mass Storage Class" compliant. If your device (digital camera, MP3 player, portable harddisk, ...) is not "Mass Storage Class" compliant it will not be detected by the content browser of the TV.
- The following subsets of the Mass Storage Class specification are supported:
 - The implementation of the TV is based on the "Universal Serial Bus Mass Storage Class Specification Overview" (v1.2, June 23, 2003) including all documents referenced by the document. The document can be found on the USB standardisation website (www.usb.org).
 - Full support of the USB Mass Storage Class Bulk-Only Transport (bInterfaceProtocol = 50h).
 - Full support of SubClass Code = 05h; SFF-8070i spec.
 - Full support of SubClass Code = 06h; SCSI transparent command set.
- For large USB memory devices, when you are in the Content Browser, it may take a long time before you can access your files.
- When using a USB portable harddisk: Due to the high power consumption of the harddisk, it is advised to use the external power supply of the portable harddisk to guarantee proper working under all conditions.

Annex 4 - Issues referring to connected peripherals with a HDMI connector

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The **HDMI IN** connector allows the following TV and monitor display modes:

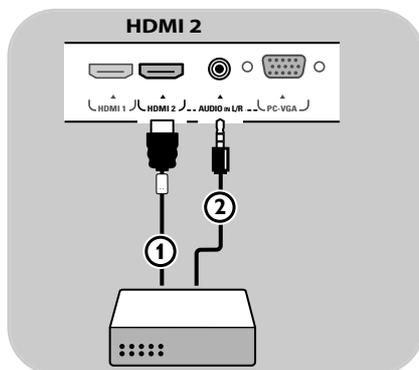
HD	Standard Definition TV (SDTV)	640x480i 720x480i 720x576i
	Enhanced Definition TV (EDTV)	640x480p 720x480p 720x576p
	High Definition TV (HDTV)	1920x1080i 1280x720p
PC	VGA	640x480
	SVGA	800x600
	XGA	1024x768

- If necessary, you can adjust the picture position to the centre of the screen with the cursor keys.
- Due to legal requirements, it is possible that with certain copy protected PCM audio qualities from a peripheral equipment connected to the **HDMI** input, the Digital audio output signal is muted.
- Proper working is only guaranteed with HDMI compliant consumer products. Limit the cable length to max. 5 m.
- In case no signal is detected from your HDMI equipment, switch off the HDMI equipment and then on again.

Sound interruptions using HDMI to HDMI connection

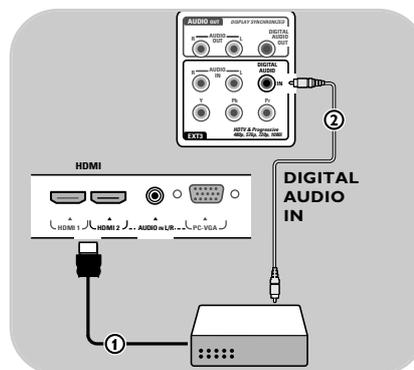
In case of persistent sound interruptions, connect an extra audio cable from your connected peripheral to your TV.

Extra analogue audio cable:



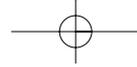
1. Connect your peripheral equipment with the **HDMI 2** connector ①.
2. Connect the analogue audio output of your peripheral equipment to the **AUDIO L/R** input of your TV ②.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 30, and link it to **HDMI 2**.
4. Also select **AUDIO IN L/R** in the same Connections menu.

Extra digital audio cable:



1. Connect your peripheral equipment with the **HDMI 1** or **2** connector ①.
2. Connect the digital audio output of your peripheral equipment to the **DIGITAL AUDIO IN** input of your TV ②.
3. Select the equipment you have connected in the Installation menu, Select your connections, p. 30, and link it to **HDMI 1** or **2**.
4. Also select **Digital audio in** in the same Connections menu.

active control	17	light sensor	17	teletext	37
ambilight	20	location	29	teletext menu	38
antenna	4	manual installation	27	teletext 2.5	29
audio equipment keys	49	menu key	12	tint	15
auto format	17	menu language	26	T.O.P. teletext pages	37
automatic installation	26	MPEG reduction	17	troubleshooting	50
auto surround	58	multimedia browser	33	tv menu settings	13
avl (audio volume leveller)	19	mute key	5	uninstall	28
balance	18	navigate through the menus ..	13	usb connector	40
batteries	4, 60	on screen language	10	usb device	33
brightness	15	on screen information	6	video equipment keys	49
HD receiver	44, 45	on timer	25	volume	5
camera	40	option key	8	VCR	42
camcorder	40	OK key	5		
care of the screen	2	OSD	29		
change code	24	PC	46		
channel list	13, 28	picture adjustment menu	13		
child lock	24	picture format	17		
clock	8	PIN code	24		
colour	15	pixel plus	16		
colour enhancement	17	preferences menu	29		
colour keys	5	previous channel	6		
comp. video connectors	45	programme title	29		
connections	39	quick access menu	8		
contrast	15	rear panel overview	41		
cursor keys	5	rearrange channel list	28		
custom tint	16	record a TV programme	48		
delta volume	19	recycling	60		
demo	25	reinstall	28		
digital natural motion	16	remote control	5		
DNR	17	reset factory settings	31		
dual I/II	18	reset to standard	14		
DVD player	44, 45	rename	28		
DVD recorder	42, 43	reshuffle	28		
DVI connector	44, 46	safety warnings	2		
dynamic contrast	16	satellite receiver	43		
equalizer	18	search for channels	26		
euroconnector	42, 43, 47	select your connections	30		
factory settings	31	select connected equipment ..	48		
favourite key	32	set code	24		
favourite channel list	32	settings assistant	11		
features adjustment menu	23	side connectors	40		
fine tune	27	sharpness	15		
first time installation	9	sleeptimer	23		
game	40, 41, 44	slideshow format	55		
HDMI connector	44	software upgrade	31, 52		
headphone	40	sound adjustment menu	18		
headphone volume	19	standby key	5		
home cinema amplifier	47	store channels	26		
hue	15	subtitles	23		
hypertext	38	surround mode	18		
installation menu	26	switch the TV on	9		



Recycling

EN

Recycling

 The packaging of this product is intended to be recycled. Apply to the local authorities for correct disposal.

Disposal of your old product

Your product is designed and manufactured with highly quality material and components, which can be recycled and reused.



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

Please inform yourself about the local separate collection system for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste.

The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Disposal of batteries

The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.

Product information

- Your TV consumes energy in standby mode. Energy consumption contributes to air and water pollution. Very low standby power consumption.
- Specifications: see the product leaflet on www.philips.com/support.
- If you need further assistance, please call the customer support service in your country.
-  The corresponding telephone numbers and addresses are given in the supplied Worldwide guarantee booklet.

