

**Rear-projection TV
with HD Input**

***Your Television's
Directions for Use***

**46PP9545
55PP9545**



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Thank you for purchasing this television set. You are now the proud owner of a Philips TV, which promises full value to you as a customer. Please read this manual carefully and thoroughly for help with installation and operation.

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SAFETY INFORMATION

Disconnect mains plug when :

- the red light below the TV screen is flashing continuously
- a bright white line is displayed across the screen
- cleaning the TV screen (never use abrasive cleaning agents; use a slightly damp chamois leather or soft cloth)
- a lightning storm is occurring
- the set is left unattended for a prolonged period.

Never attempt to repair a defective TV yourself. Always consult a skilled service person.

Battery Usage CAUTION :

To prevent battery leakage which may result in bodily injury or damage to the remote :

- Install ALL batteries correctly, + and – as marked on the remote control.
- Do not mix batteries : (OLD and NEW or CARBON and ALKALINE, etc.).
- Remove batteries when the remote is not used for a long time.

PRODUCT HIGHLIGHTS

See it as an eyewitness

- Pixel Plus™ technology for more and better details
- Digital Natural Motion™ enables smooth and jitter-free movements from any source
- HDTV Monitor – HDTV is the latest and best television signal available
- Acclearium™ Digital Optics maximizes picture quality on all inputs
- Saphlon™ Screen – better picture and scratch resistance

Technology made simple

- BlueBlush Buttons – lighted proximity-activated user control panel
- Full 1080i HD connectivity for future-proof connections to High Definition Set-Top Boxes
- Active Control + Light Sensor adjusts to best possible picture settings
- Auto IntelliSense™ Focus – one-touch automatic convergence of the CRT tubes
- APAC – Automatic Phosphor Aging Compensation
- Dual Screen with two tuners splits your screen into two independent pictures

Rich sound experience

- Virtual Dolby® Surround – surround sound without additional rear speakers

Product highlights

Pixel Plus™

Through the unique improvement of luminance and color transients, the interpolated pixels are processed, the luminance amplitude is altered, and pre- and after- shoots for colors are created, resulting in an overall sharper, crisper picture and much more vivid colors. Additional color enhancements give an even greater saturation and lifelike realism. The digital enhancement of the difference between dark and light parts of the image also raises the contrast of the overall picture by up to 30%, making it even more brilliant. Finally, the Digital Noise Reduction and Digital Natural Motion correction result in perfectly smooth, jitter-free, noise-free and razor-sharp moving images.

Digital Natural Motion™

Enables smooth and jitter-free movements from any source. The advanced Philips chip used for DNM has the processing power of several Pentium processors. It has the ability to detect fast-moving sequences from film and video material and it can handle multi-directional movements at the same time.

BlueBlush Buttons

The product has an innovative technology that allows it to sense the user's needs and meet them. Sensing the user is near, the product activates the lighting of the control panel to make it visible. When the controls are no longer being used and after a short pause, they will dim.

Full 1080i HD Connectivity

The video inputs use the highest quality connection type and within the TV combine the latest high output video processing technology to accept and display various 1080i HD formats.

Acclearium™ Digital Optics

Philips micro phosphor CRTs feature improved optics for sharper, more detailed images and enhanced green phosphor, which creates deeper, more natural colors. Hybrid projection lenses work in concert with each CRT to improve focus and correct optical errors, removing distortion and creating a crisp picture to the edge of the screen. The lenticular screen has nearly one-third finer pitch (.515mm) than traditional screens, improving picture detail and resolution. The Philips Wideband Video Amplifier reproduces the highest visible bandwidth in its class—resulting in significantly more picture detail in pure HD.

Saphlon™ Screen

Saphlon™ Screen technology is built with materials and processes that deliver more brightness and picture contrast. It guards against most scratches and fingerprints and eliminates the glare associated with a separate protective screen.

Auto IntelliSense™ Focus

Sensors in the TV scan a predefined test pattern and readjust the signal on the CRTs to assure that red, green and blue are well aligned.

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INSTALLING THE TV

- 1 The major benefit of this projection television is its large viewing screen. To see the large screen at its best, test various locations in the room to find the optimal spot for viewing.

Be sure to allow a minimum of 15 cm of space around the TV.

To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot—for example, in direct sunlight or near a heating appliance.

Magnetic fields, such as those of external speakers, may cause the picture to distort if the speakers are placed too close to the television. Move the magnetic field source away from the TV until there is no picture distortion.

- 2 Insert the aerial plug firmly into the ANTENNA IN 75Ω socket at the rear of the set.

- 3 Insert the mains plug in the wall socket. Refer to the back of the TV set for the correct operation voltage. Consult your local dealer if your main supply is different. To prevent damaging the mains (AC) cord, which could cause hazard, do not place the TV on the cord.

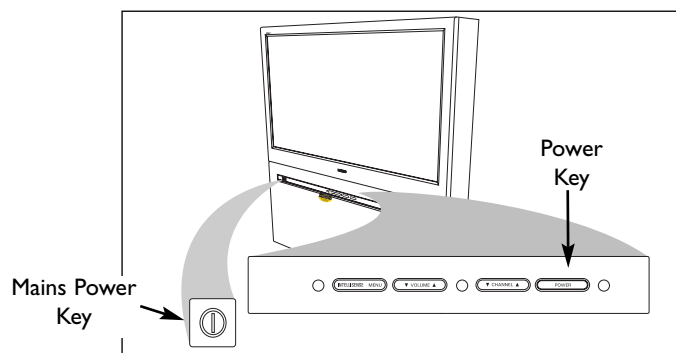
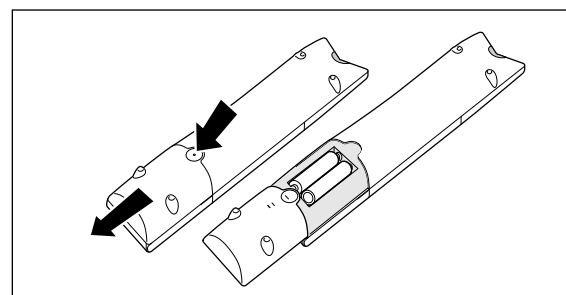
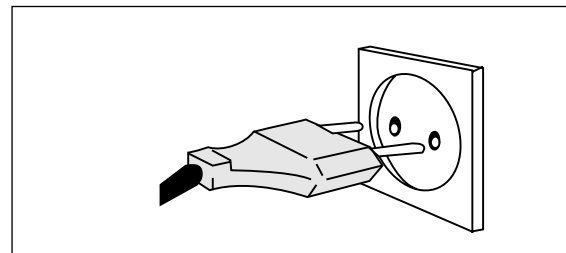
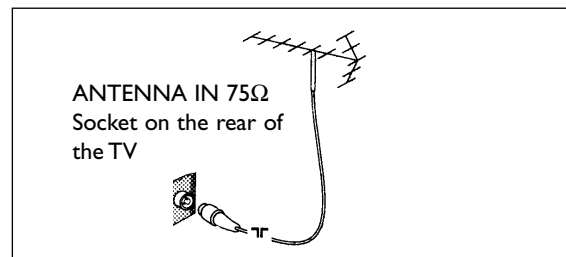
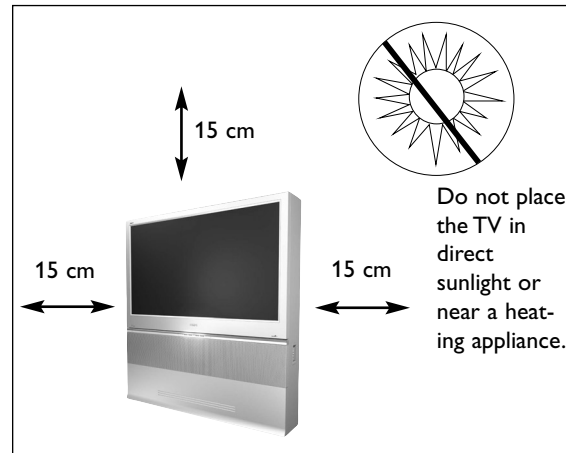
- 4 Remove the cover of the battery compartment on the remote control. Insert the two batteries supplied (Type R6-1.5V).

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many countries exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of exhausted batteries according to local regulations.

See the battery caution statement on page 2.

Note : This remote control functions with TVs that use the RC5 signalling standard.

- 5 Switch the TV on : Press the mains power switch on the front of the TV. If Standby key is lighted, press the CH +/- keys, digit keys, or the Standby key on the remote control. Or press the CHANNEL or Standby keys on the front of the TV.

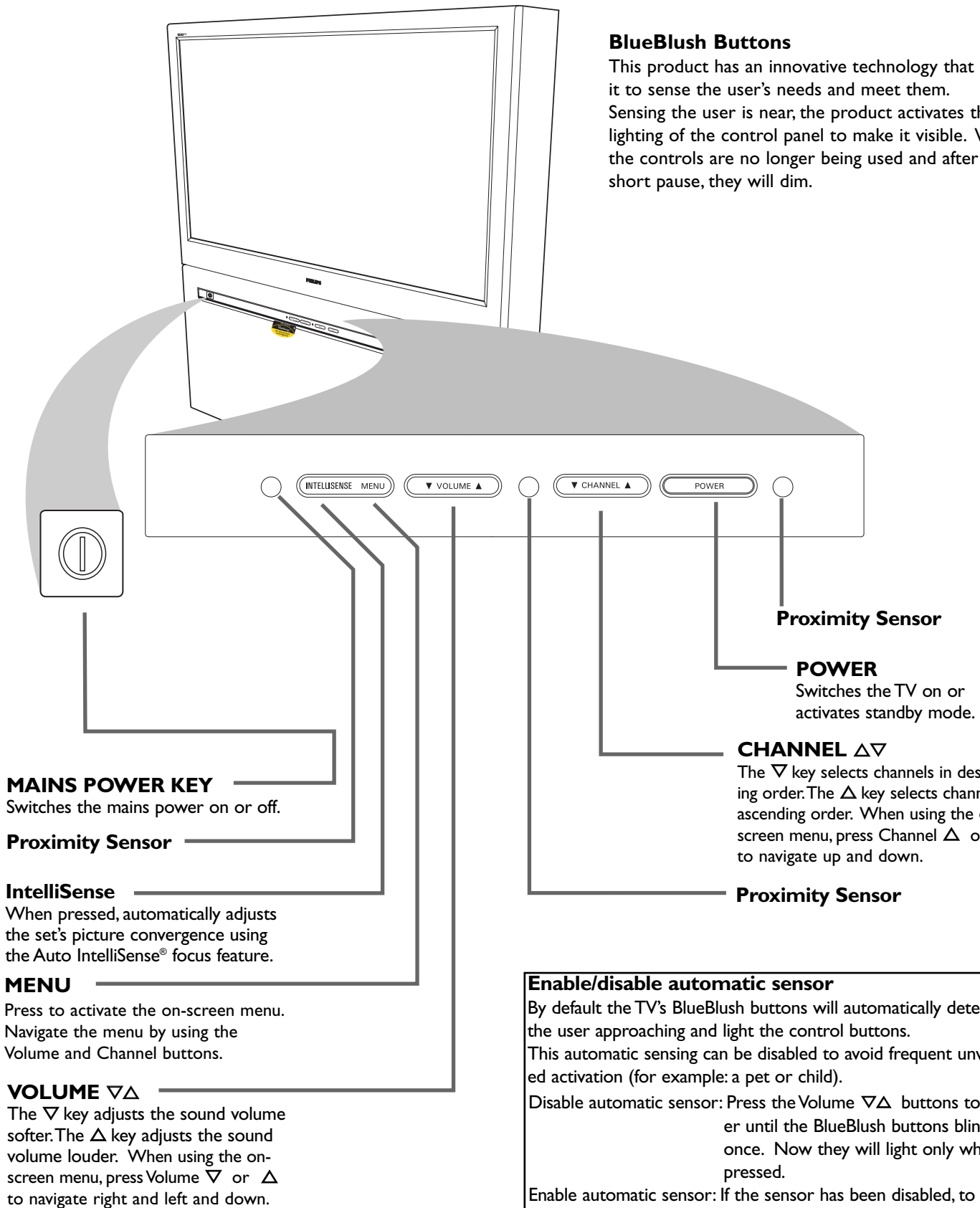


USING THE TV KEYS

BlueBlush Buttons

This product has an innovative technology that allows it to sense the user's needs and meet them.

Sensing the user is near, the product activates the lighting of the control panel to make it visible. When the controls are no longer being used and after a short pause, they will dim.



Enable/disable automatic sensor

By default the TV's BlueBlush buttons will automatically detect the user approaching and light the control buttons.

This automatic sensing can be disabled to avoid frequent unwanted activation (for example: a pet or child).

Disable automatic sensor: Press the Volume ▽△ buttons together until the BlueBlush buttons blink once. Now they will light only when pressed.

Enable automatic sensor: If the sensor has been disabled, to enable press the Volume ▽△ buttons together until the BlueBlush buttons blink twice. Now the BlueBlush buttons will automatically light when the user approaches.

USING THE REMOTE CONTROL KEYS

SELECT ACCESSORY

Press to select the AV input for the device you want to use: AV1, AV2, AV3, AV4, or side

ACCESSORY MODE

Press to control an accessory device with the remote control. You can control a video recorder, DVD, amplifier, or other auxiliary device (CD or SAT). A green indicator lights up. To return to TV mode press the button again, or wait for the light to go out.

PICTURE-IN-PICTURE (PIP)

Press to access the Picture-in-Picture and Dual-window features.

FREEZE

Press to freeze the main picture when PIP is off. In teletext mode, press to hold a page.

VCR BUTTONS

Use with a Video recorder. Press ● to record, ◀◀ and ▶▶ to search, ■ to stop and ▶ to play.

PIXEL PLUS™

Press to see a demonstration of Pixel Plus. The Left half of the screen has Pixel Plus and Digital Natural Motion turned on and right half of the screen has Pixel Plus and Digital Natural Motion turned off. Press the button again to switch the demonstration off.

CURSOR LEFT

Press to navigate the menus and adjust the settings.

OK

Press to activate or select menu choices

VOLUME +/-

Increases or decreases volume.

DIGITS 0-9

Press to select a channel. For Channels with two digits, you must press the second digit within 2 seconds.

i+ (STATUS/EXIT)

- Press to display information about the current channel and programme, or when navigating the On-Screen-Display menus, information about the selected item.

TIME DISPLAY

Press to display the time.

SURROUND MODE

Press to select the surround sound mode:

Dolby® Virtual

Dolby Virtual uses two speakers to simulate the surround effect produced by a multichannel system.

Incredible Surround™

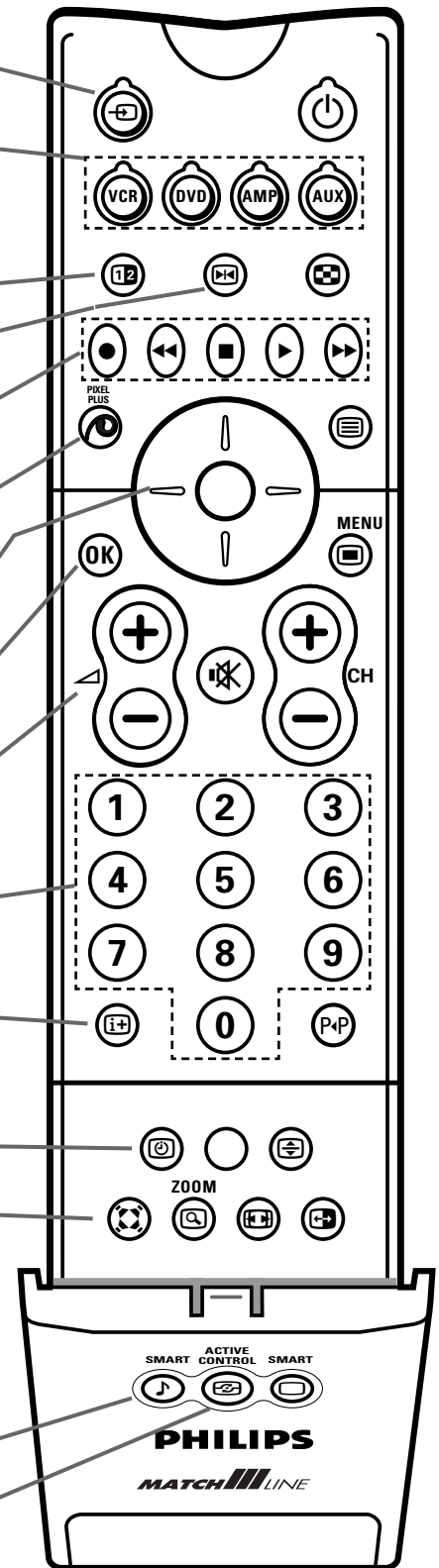
- The Incredible Surround™ feature provides the feeling that the speakers are farther apart to enhance the home-cinema effect.

SMART SOUND

Press to select a preset sound setting.

ACTIVE CONTROL™

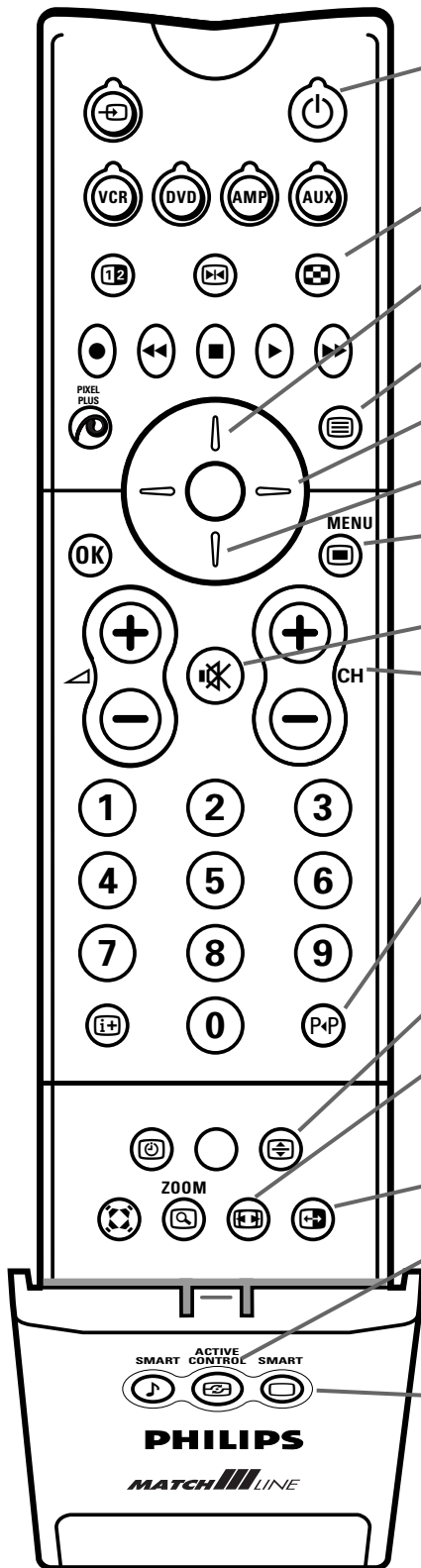
Press to select the Active Control level (Off, Minimum, medium, Maximum). Active Control monitors the incoming signal and the surrounding ambient light to provide the best picture by constantly adjusting the contrast, dynamic contrast, brightness, and colour picture settings.



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USING THE REMOTE CONTROL KEYS



STANDBY

- Switches the set on and off from standby mode. (The red light indicator lights up when the set is in standby mode.)

PICTURE-IN-PICTURE (PIP)

Press to access the Picture-in-Picture and Dual-window features.

CURSOR UP

Press to navigate the menus and adjust the settings.

TELETEXT ON/OFF

Press to access Teletext information (if provided).

CURSOR RIGHT

Press to navigate the menus and adjust the settings.

CURSOR DOWN

Press to navigate the menus and adjust the settings.

MENU ON/OFF

Press to turn the on-screen menu on and off.

MUTE

Press to mute the sound. To restore the sound, press the key again.

CHANNEL +/-

Press to select channels in ascending and descending order.

SMART SURF

Press to use the Smart Surf feature. If you have Smart Surf set to 2-channels, it will return you to the previously viewed channel. If Smart Surf is set to 9-channel a menu appears with the 9 previously viewed channels.

TELETEXT ENLARGE

Press to enlarge the teletext page.

PICTURE FORMAT

Press to select a picture format. A menu appears with the following options: Automatic, Super Zoom, 4:3, Movie Expand 14:9, Movie Expand 16:9, 16:9 Subtitle, and Wide Screen. Press the button to scroll through the choices.

No Function

ACTIVE CONTROL™

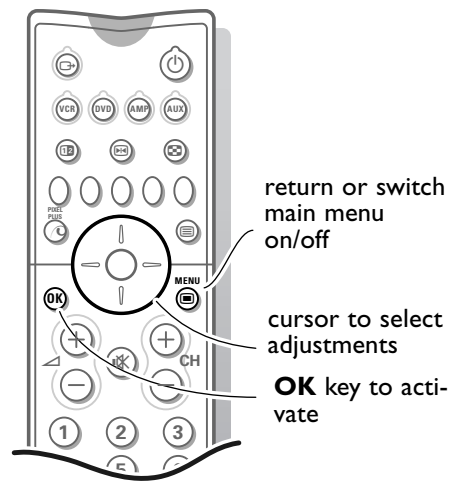
Press to switch the Active Control™ feature on or off. When Active Control™ is on, it measures and corrects all incoming signals to provide the best picture-quality settings, controlling Sharpness and Noise Reduction continuously and automatically. The onscreen Active Control™ display items cannot be selected. See page 22.

SMART PICTURE

Press to select from a list of preset picture options.

USING THE MENUS : OVERVIEW

- 1 Press the **MENU**  key on the remote control to summon the main menu.
Note: Should your remote control be lost or broken you can still use the keys on the front of the TV. See p. 5.
- 2 Press the cursor button up or down to select the TV, Settings, Install or Demo menu.
Note: Sometimes not all the menu items are visible on the screen. Press the cursor down to reveal all items.
- 3 Use the cursor button left or right to select the menu item.
- 4 Use the cursor button up or down again to select the control you want to select or to adjust. For instance, see Picture menu.
- 5 Press the **MENU**  key to turn off the main menu.



The menu system

Pipes, balls and a puck

The hierarchy of menus and controls is represented by an animated visual mechanism of pipes, balls and a puck. The animated mechanism constantly shows the current whereabouts in the menu structure.

The puck surrounds the ball indicating the user's current position in the menu hierarchy. The puck is always present when the menu system is displayed.

The puck is divided into 4 parts. They correspond to the directional controls (up/down, left/right) on the remote control. The arrows on the cursor indicate which directions to choose.

When menu items cannot fit on the TV display, only a portion is shown. Those omitted are indicated by a cluster of balls.

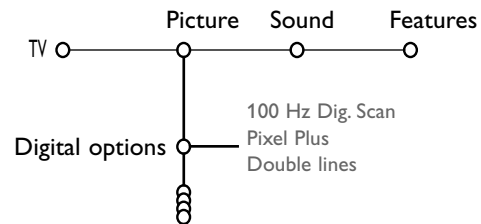
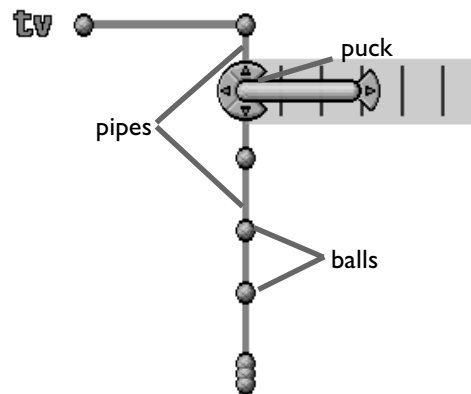
Direct selection and control

Menu items are controlled as soon as they are selected. Only a few items require information with the **OK** key.

List controls

A list control is used to select one or more items from a list of options. Press the right key to move the puck into the list. At least one item is the current value and is highlighted.

Moving the puck up or down with the up/down key causes the list to move up or down.



USING THE MENUS : INSTALL

- 1 Press the **MENU**  key on the remote control.

When you switch on your TV for the first time and no channels are stored so far, the menu Language automatically appears on the screen. This menu also has an additional item **Exit** with which the menu can be dismissed. The explanation appears in different languages one at a time. Choose your preferred language and press the **OK** key on the remote control. Proceed with the Install menu.

- 2 Use the cursor down to select **Install**.

- 3 Use the cursor right to select **Language**.
Follow the instructions on screen.

- 4 Use the cursor up/down to select your preferred language and press the **OK** key to confirm your selection.

- 5 Proceed with the **Install** menu.



Automatic Channel installation

- 1 Select **Automatic installation** in the Install menu.
Note: All channels must be unlocked in order to autoprogram. If requested, enter your PIN to unlock all channels. (See TV, Features menu, Child lock, p. 13.)

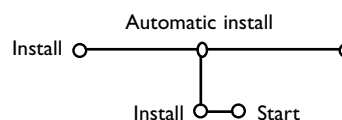
- 2 Press the cursor down.
The autoprogramming option label **Start** appears.

- 3 Press the cursor right.

- 4 The message **Searching** appears and the progress of autoprogramming is displayed.

When the Automatic installation is complete, the puck navigates to Install again.

The programme list is automatically filled with all the programme numbers of the TV channels transmitted.



You can now search for and store the TV channels in two different ways: using Automatic Installation or Manual Installation (tuning-in channel by channel). Select your choice with the cursor right.

Note: Channel numbers and names will always be written in Latin characters, even when a language has been selected which uses other characters.

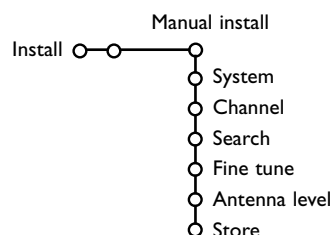
Manual Channel installation

- 1 Select **Manual installation** in the Install menu.

- 2 Press the cursor down.
Follow the instructions on screen.

Note: Search or direct selection of a TV channel. If you know the frequency, enter the 3 digits of the frequency directly with the digit keys 0 to 9 (e.g. 048). Press the cursor down to proceed.

- 3 Repeat to search for another TV channel.

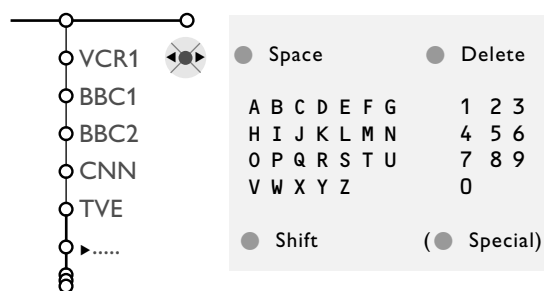


Searching for and storing TV channels is done channel by channel. You **must go through every step** of the Manual Installation menu

USING THE MENUS : INSTALL

Give name

- 1** Select Give Name in the Install menu and press the cursor down.
- 2** Select the programme number.
Note: keep the cursor up/down pressed to scroll through the programme list quickly.
- 3** Press the cursor right. A keyboard appears on the screen. Only European characters are displayed.
Note:
 - Dependent on the language selected in the language menu, the key Special is available or not.
 - When you select Arabic, you can toggle the Special key to display Arabic or English characters. The Shift key is changed to More. Press the More key to toggle between part 1, 2 or 3 of the Arabic character sets.**Press the cursor** right to enter the keyboard.
Press the cursor up/down, left/right to select the first character and press OK. Repeat for every character you want to enter.
Select Space to enter a space; **Delete** to erase the highlighted character in the name entered; **Shift** to display upper- or undercast characters on the keyboard; **Special** to display special characters on the keyboard. Press OK to confirm.
- 4** Press the cursor left repeatedly when you have finished naming the selected channel or peripheral.
- 5** Select another programme number and repeat steps 3 to 5.

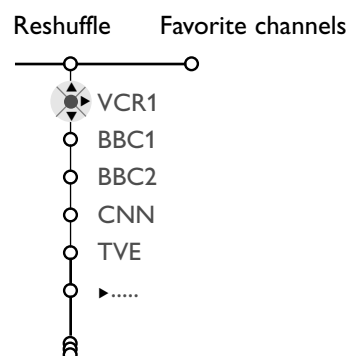


It is possible to change the name stored in the memory or to assign a name to a TV channel for which a name has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,... Before programme number 0 you can also enter a name for the peripherals that are connected to an external input.

Reshuffle the programme list

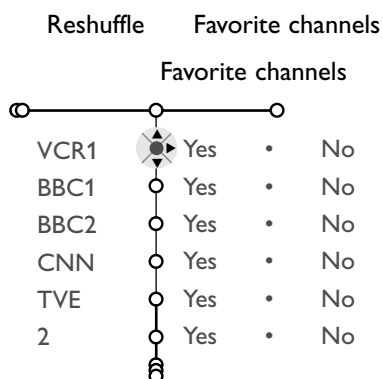
According to your preference you **can** change the order of the stored TV channels.

- 1** Select Reshuffle in the Install menu and press the OK key.
- 2** Follow the instructions on screen.



Select Favourite TV channels

- 1** Select **Favourite programmes** in the **Install** menu.
- 2** Select your programme number with the cursor up/down.
- 3** Select **Yes** or **No** with the cursor right.
- 4** Repeat 2 and 3 for every TV channel or external you want to make a favourite or a non-favourite TV channel or external.



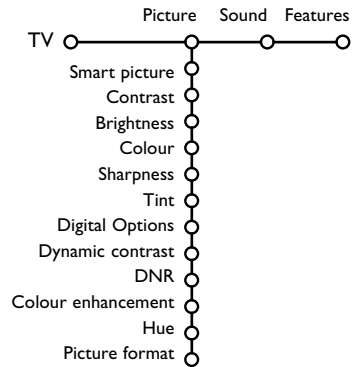
Picture menu

Use the Picture menu to adjust picture settings. Use the on-screen Menu-Info  for more information about the menu items.

- 1 Press the **MENU**  key on the remote control to summon the main menu.
- 2 Press the cursor right to select **Picture**.
- 3 Select the menu items in the Picture menu with the cursor up/down.
- 4 Adjust the settings with the cursor left/right or enter the list of submenu items with the cursor right.
- 5 Select a submenu item with the cursor up/down.

The modified adjustments for Contrast, Brightness, Colour, Sharpness, Tint, Digital options and Dynamic Contrast are automatically stored.

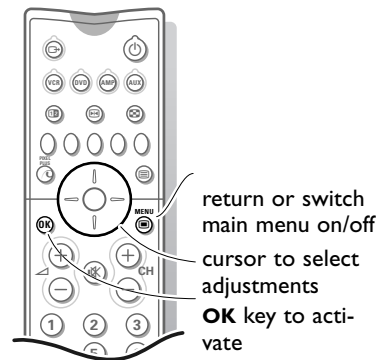
Select **Factory settings** in the Setup menu, General, to restore the predefined factory settings, see p. 14.



Digital Options with PAL signals

Although Pixel Plus is the most ideal setting, it may be preferable, dependent on your own preference, to select Double lines, or 100 Hz Digital Scan.

- **100 Hz Dig. Scan** 100 Hz + Dig. Scan (Field and line flicker reduction) without motion compensation.
- **Movie Plus** provides motion compensation to increase clarity around moving images in the picture.
- **Pixel Plus** creates near High Definition performance inside the TV on the basis of a regular input signal. The number of lines are increased and the number of pixels on a line are doubled in combination with Digital Natural Motion. As such Pixel Plus enhances both regular broadcast signals and DVD or Digital TV input towards unparalleled sharpness and depth, near High Definition and natural detail.
- **Double Lines** provides for a doubling of vertical and horizontal resolution which adds astonishing sharpness and a total absence of visible picture lines. Motion compensation reduces jitter and offers smooth, yet sharp motion reproduction.



Digital Options with NTSC signals

- **Progressive Scan** line doubling eliminates line flicker.
- **Pixel Plus**

Note:

- Pixel Plus is not active when Multipip, Teletext (Except when Subtitling is activated) or Teletext Dual screen is selected.
- When having selected Pixel Plus, the size of the menus on screen is reduced. This is a normal behaviour.
- Interference, caused by fluorescent lights just above the TV, may occur when having selected Pixel Plus.

USING THE MENUS : SOUND

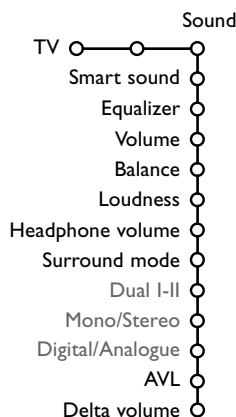
Sound menu

Use the Sound menu to adjust sound settings. Use the on-screen Menu-Info  for more information about the menu items.

- 1** Press the **MENU**  key on the remote control to summon the main menu.
- 2** Press the cursor right to select **Sound**.
- 3** Select the menu items in the Sound menu with the cursor up/down and adjust the settings with the cursor left/right.
Remember, control settings are at normal mid-range levels when the bar scale is centred.

Note:

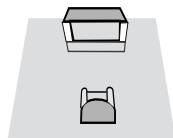
- Smart Sound allows you to select from a list a preset sound settings.
- Dual I-II is only available with dual sound transmission.
- Mono/Stereo is only selectable in case of analogue stereo transmission.
- Nicam/Analogue is only selectable in case of Nicam transmission.
- AVL (Automatic Volume Leveller) Automatically controls the volume level to avoid excessive level differences, especially when switching to another channel or during commercial breaks.
- Surround modes can not be modified when a headphone has been connected.



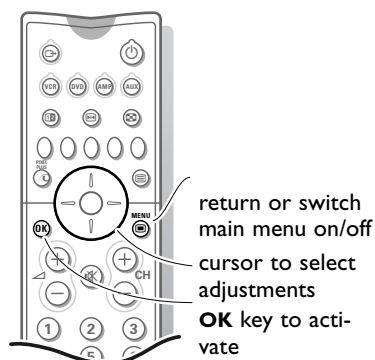
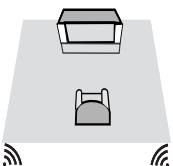
Surround Modes

Dependent on the sound signal broadcasted, select one of the Surround modes.

Incredible Surround™ enhances stereo programs by making the sound broader and fuller



Dolby* virtual creates a virtual surround sound experience from two speakers. Dolby Virtual retains all the original multi-channel audio information and provides the listener with the sensation of being surrounded by additional speakers.

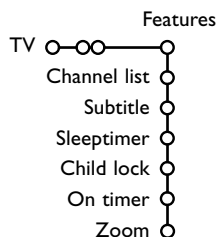


USING THE MENUS : FEATURES

Features menu

Use the Features menu to adjust sound settings. Use the on-screen Menu-Info  for more information about the menu items

- 1 Press the **MENU**  key on the remote control to summon the main menu.
- 2 Press the cursor right to select **Features**.
- 3 Select the menu items in the Features menu with the cursor up/down and adjust the settings with the cursor left/right.

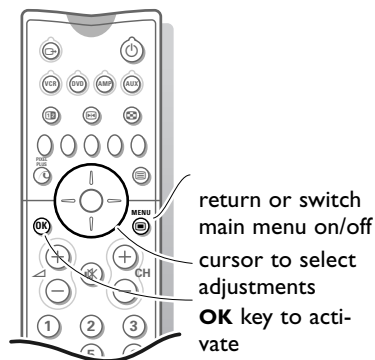


Channel list

- Press the **OK** key to switch over to the selected TV channel or external.

Select subtitles

- Switch on teletext and select the proper subtitle page from the index.
- Switch off teletext. Now the subtitle page is stored for the selected TV channel.
- Once subtitles have been stored and **Subtitle On** has been selected they will automatically be displayed on the selected TV channels if subtitles are in the transmission.
- A symbol will indicate that the mode is on.
- Select **On during mute** when you want to have the subtitles automatically displayed when the sound has been muted with the  key on the remote control.



Child lock

Note: Before using Child Lock, you must set a personal 4-digit code using Set Code in the General menu.

- 1 Select **Child lock** with the cursor down.
- 2 Press the cursor right to enter the Child lock menu. Enter the access code.

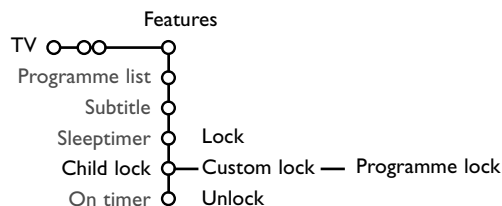
Note: You have to re-enter your code each time you enter the child lock menu.

Important: If you have forgotten your code:

- Select Cancel with the cursor down.
- Select Set/Change code in the Setup menu. See General menu, Set/Change code, p. 14.
- Press OK.
- Press the cursor right and enter the overriding code 8-8-8-8.
- Press the cursor again and enter a new personal 4-digit code. The previous code is erased and the new code is stored.

Note: The overriding code only works in the Set/Change code menu.

- 3 Select one of the menu items of the child lock menu.
 - Select **Lock** if you want to lock all channels and externals.
 - Select **Custom lock** and press the cursor right. Select **Programme lock** if you want to lock the programmes from a certain TV channel or external.
 - Select **Unlock** to unlock all locked channels and externals at once.



USING THE MENUS : GENERAL

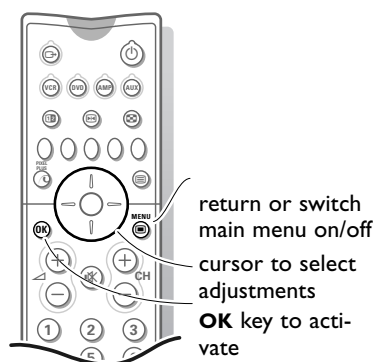
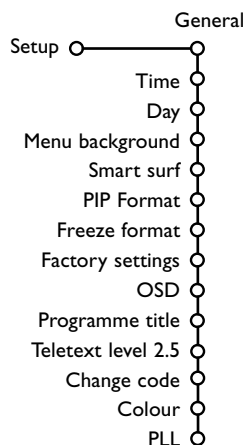
General menu

Use the General menu to adjust settings that are not changed often. Use the on-screen Menu-Info **i+** for more information about the menu items

- 1** Press the **MENU**  key on the remote control to summon the main menu.
- 2** Press the cursor down to select **Setup**.
- 3** Press the cursor right to select **General**.
- 4** Select the menu items in the General menu with the cursor up/down and adjust the settings with the cursor left/right.

Note:

- Use *Time* and *Day* to set the Clock.
- *Menu Background* places a background behind the menu to make it easier to read.
- *Smart Surf* sets the Smart surf button for either a 9-channel surf list or a previous channel toggle.
- *Dual Screen Format* sets the PIP button to display a dual screen, or a number of PIP windows.
- *Freeze format* sets which type of default Freeze option you want to appear when you press the Freeze button S.
- *Factory Settings* resets the picture and sound settings to the factory defaults.
- *OSD* sets the size of the volume and channel display.
- *Programme title* sets the TV to display the programme title according to the teletext information.
- *Teletext level 2.5* sets the TV to use Teletext level 2.5 which supports more colors and backgrounds.
- *Change Code* is used to set a new 4-digit personal code.
Note: Before using Child Lock, you must set a personal 4-digit code.
- *Colour* sets the correct colour system.



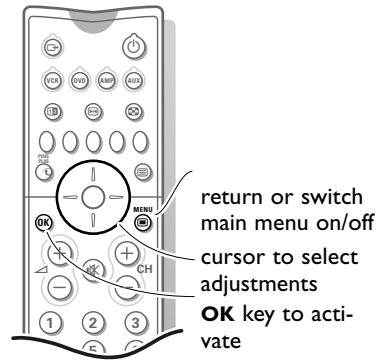
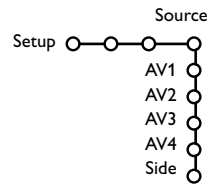
USING THE MENUS : SOURCE AND CONVERGE

Source

Use this menu to select the peripheral you connected to one of the external inputs. Use the on-screen Menu-Info  for more information about the menu items

- 1 Press the **MENU**  key on the remote control to summon the main menu.
- 2 Press the cursor down to select **Setup**.
- 3 Press the cursor right to select **Source**.
- 4 Press the cursor down to select one of the external inputs.
- 5 Press the cursor right to enter the list of names of peripherals attached to the selected input.
- 6 Select the peripheral device with the cursor up/down.

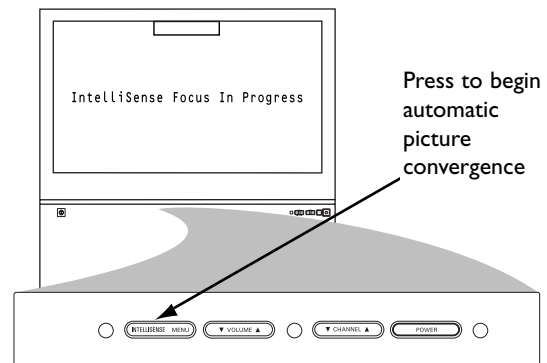
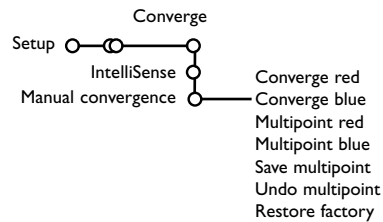
Once you have selected the source, e.g. VCR, this AV-input will automatically be selected when your remote control is in VCR mode and when you press the VCR button on the remote control. See p. 23.



Converge

With a projection TV the picture is created by projecting light from multiple sources onto the screen. How well these light sources align is called Convergence. Convergence can get misaligned. You can tell by the appearance of "halos" around the objects in the picture. You can either set the convergence manually or have the TV do it automatically.

- 1 Press the **MENU**  key on the remote control to summon the main menu.
- 2 Press the cursor down to select **Setup**.
- 3 Press the cursor right to select **Converge**.
- 4 Press the cursor down to select IntelliSense or Manual Convergence.
 - To use IntelliSense, press **OK**. the TV will do the rest.
 - To use Manual Convergence, select the setting you need to adjust, and use the Cursor to line up the cross signs.
- 5 If you select Manual convergence, choose a type of convergence to set.



Remember: Use the on-screen Menu-Info  for more information about the menu items

Activating IntelliSense® Using the TV Key

With the TV on, press the IntelliSense key on the front of the TV. Picture convergence will be adjusted automatically in 20 seconds.

*Note: When using Arabic as the On Screen Display language the Converge screen may display in English. Press the cursor buttons to select a position on the screen to adjust, then press **i+**. Now press the cursor buttons to line up the crosses. Press **i+** to exit.*

USING THE MENUS : DEMO

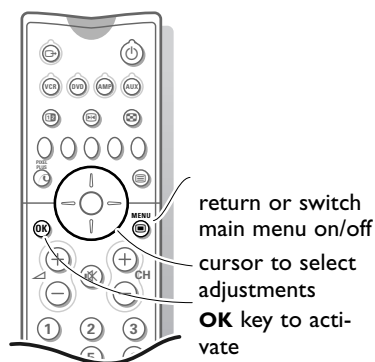
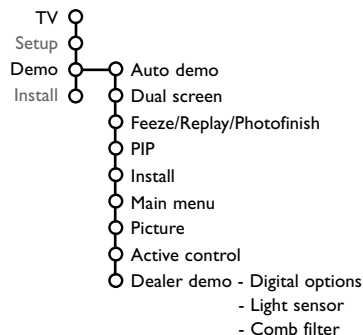
The Demo menu allows to demonstrate the TV features separately or in a continuous loop.

- 1 Press the **MENU**  key on the remote control to summon the main menu.
- 2 Select **Demo** in the Main menu with the cursor down.
- 3 Select **Auto demo** or one of the features with the cursor right and press the **OK** key on the remote control.
 - If **Auto demo** has been selected the demo will automatically present all the features sequentially in a loop.
 - Press one of the cursor keys to stop the Auto demo.
 - If one of the features has been selected, this particular feature demo will run one time only, until activated again, and the Demo menu will reappear.

Select Dealer Demo

Select **Digital options**, **Light sensor** and **Comb filter** On or Off to really see the difference in picture quality. In Dealer Demo mode it is possible to change channels with - **CH** + and to adjust the volume.

Note: the Dealer Demo is not part of the automatic sequence and can only be activated separately.



USING PICTURE-IN-PICTURE (PIP)

The Picture-in-Picture (PIP) feature allows you to call up a subscreen within your main screen to watch two or more channels or a channel and a peripheral at the same time.

The Dual-window feature allows you to divide the main screen into two subscreens so that two channels or a channel and an external source can be watched simultaneously.

1 Press the **12** key on the remote control to switch PIP on. You can set the default PIP size in the General Menu, under Dual Screen format, p. 14.

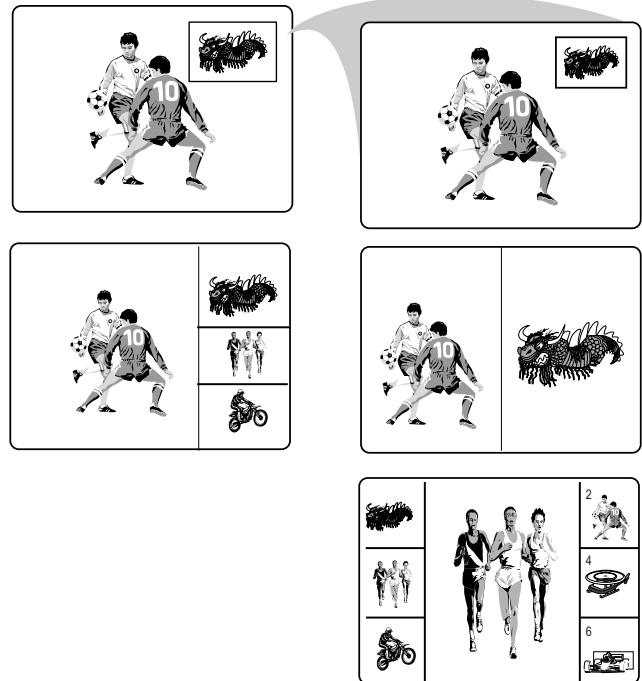
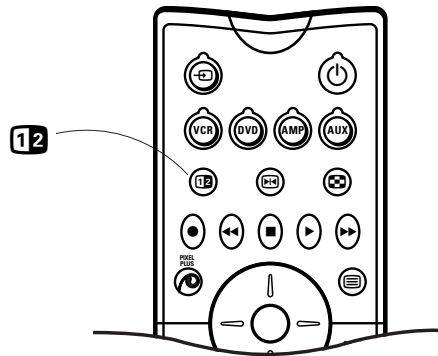
2 Press and hold the **12** key choose another PIP size or MultiPip.

Switching Screens

Use the Cursor to select the PIP window. The selected window will be outlined in yellow. Press OK and they will change places.

Changing PIP Channels.

Use the cursor to select the PIP window and change channels normally.



USING TELETEXT (IF PROVIDED)

Many TV channels broadcast information via teletext. Each channel that broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually p. 100).

Depending on the TV channel, teletext is transmitted in different systems. The colours used in the options line correspond with the colour keys of your remote control.

About Teletext

Easy Text considerably reduces the waiting time (on condition that the teletext broadcast of the particular TV channel is received for at least half a minute) by :

- a direct selection of previous and following pages that are in transmission and of the pages referred to in the options line at the bottom of the teletext screen;
- a habit watcher list : frequently used pages are put automatically in a list of preferred pages so that they are immediately available;
- the precapturing of the page numbers referred to in the displayed page; and
- the precapturing of all the subpages.

Switching Teletext on and off

- 1** Press the  key to switch the teletext on.
The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.
- 2** Press the  key again to overlay the teletext page on the TV programme.
- 3** Press the  key once again to switch the teletext off.

Selecting a Teletext Page

With the digit keys

Enter the desired page number with the digit keys.

The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.

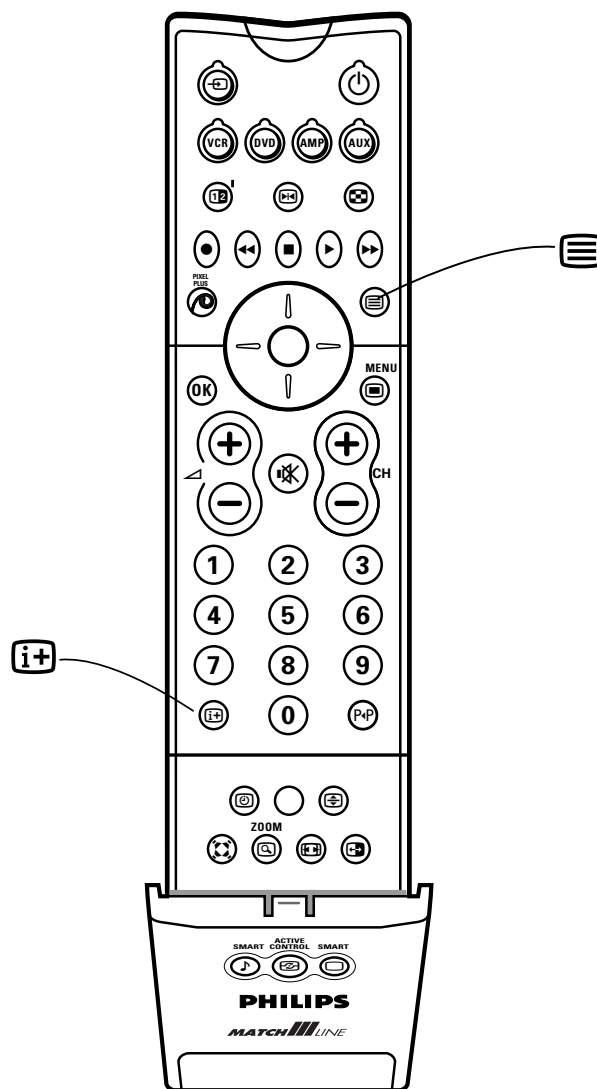
A message appears when you have entered a nonexistent or incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

With the option line

Use the colour keys—which correspond to the coloured options at the bottom of the screen—to select the desired subject.

If the option line is not on the screen, press the selected colour key **TWICE**.

Continue to the next page.



USING TELETEXT (IF PROVIDED)

Quickly Running Through the Teletext Pages

Press the cursor up/down or the **CH +/-** keys to run through the previous or the following pages.

Selecting the Index Teletext Page

Press the **i+** key to return to the main index (usually p. 100).

Selecting Subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.

Arrows in front of the page number indicate that other subpages are available.

The other subpages can be selected in two ways :

With the cursor left/right

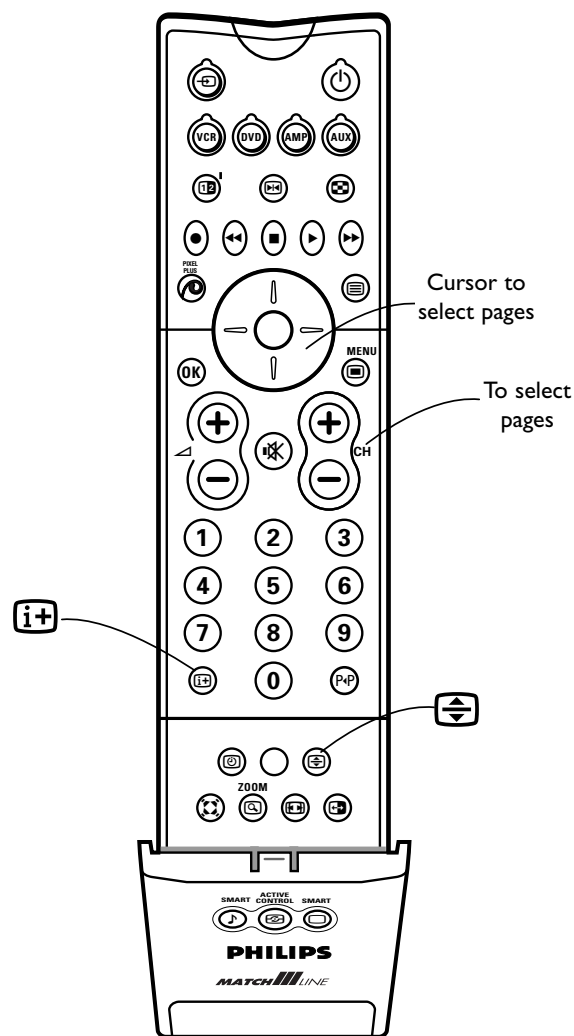
The other subpage numbers appear in white as soon as the transmission has found them. They are stored in the memory so that they are available while the teletext page is on screen.

Use the cursor left/right to select the previous or the following subpage.

Using Special Teletext Functions

Enlarge

Press **⇄** repeatedly to display the upper part and the lower part, and then to return to the normal page size. When the upper part is displayed, you can scroll the text, line by line using the cursor up/down.

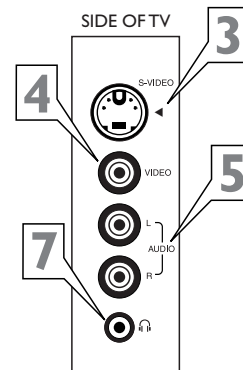
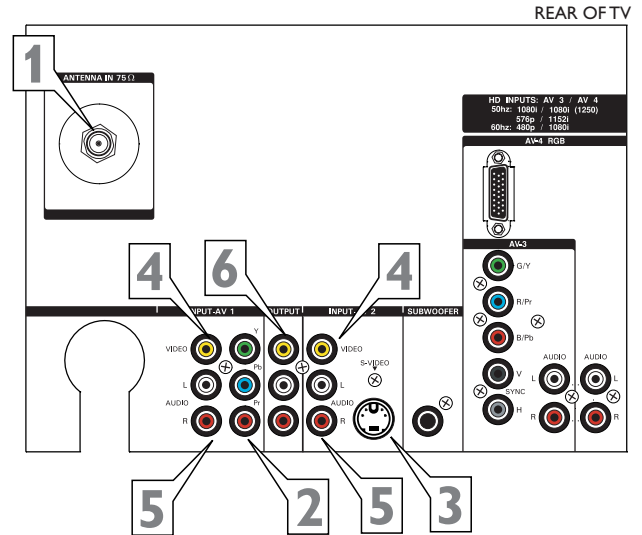


CONNECTING PERIPHERAL EQUIPMENT

You can connect a wide range of video and audio equipment to your TV in various ways. This page and the next one provide an overview of signal compatibilities and the types of equipment you can connect to the sockets. Connection examples follow on subsequent pages. As necessary, also refer to the handbook for peripheral equipment.

Overview : Standard Inputs/Outputs

- 1 ANTENNA IN 75Ω socket**—compatible with the broadcast standard in your area. Use to connect radio-frequency (RF) signals from VHF/UHF antennas or a cable system.
- 2 PbPrY (component video input [CVI] sockets)**—compatible with 480i and 576i signals. Use to connect equipment having component video outputs, such as DVD players, laser-disc players, video-game players, satellite receivers, or other equipment. Use the INPUT-AV 1 L(ef) and R(ight) AUDIO sockets for sound connections.
- 3 S-VIDEO (super video) sockets**—compatible with 480i and 576i signals. Use to connect peripherals having Super VHS (S-VHS) outputs, such as VCRs, DVD players, laser-disc players, video-game players, satellite receivers, or other equipment.
- 4 VIDEO (composite) sockets (INPUT-AV 1, INPUT-AV 2, and TV's side socket panel)**—compatible with 480i and 576i signals. Use to connect peripherals having composite video outputs, such as VCRs, video-game players, or other equipment.
- 5 AUDIO inputs (INPUT-AV 1, INPUT-AV 2, and TV's side socket panel)**—use to connect from the audio output sockets on VCRs, DVDs, or other peripherals.
- 6 MONITOR OUT (VIDEO/AUDIO)**—use to connect to a VCR to record programmes from the TV. Or use the AUDIO outputs to connect to an audio hi-fi system.
- 7 Headphone socket (stereo, 3.5 mm)**—use to connect headphones for personal listening. The headphone impedance must be between 8 and 4000 Ohms.



CONNECTING PERIPHERAL EQUIPMENT

The AV3 and AV4 sockets allow you to connect digital equipment with 1080i/480p (60Hz) or 576p (50Hz) signal output.

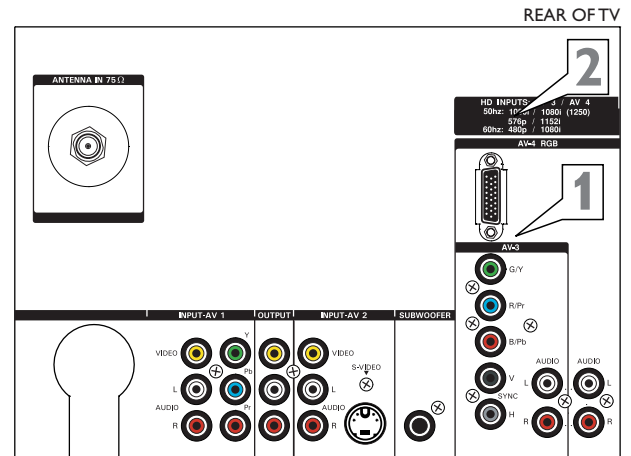
Overview : High-definition Inputs

1 AV3—use to connect digital equipment with a 1080i/480p (60Hz) or 1080i/576p (50Hz) signal output, such as digital set-top boxes or DVD players with progressive-scan capability. You can connect equipment with PbPrY component video or RGB outputs to the AV4 sockets. H and V Sync connections may or may not be required for RGB connections. Use the AV3 L(ef) and R(ight) AUDIO sockets for sound connections.

See the handbook for the device you are connecting.

2 AV4—use to connect digital equipment with a 1080i/480p (60Hz) or 1080i/576p (50Hz) signal output, such as digital set-top boxes or DVD players. The AV4 socket accepts a DB15 connector. Note, however, that adapters can also be used to connect from component video output to this DB15 socket. Use the AV5 L(ef) and R(ight) sockets for sound connections.

See the handbook for the device you are connecting.



High-definition Inputs—Video Synchronizing Reference

Input	Video Description	Accepts Video Sync according to :
AV3 AV4	480p (60Hz)	EIA/CEA-770.2-C
	1080i (60Hz)	EIA/CEA-770.3-C
	576p (50Hz)	ITU-R BT.1358
	1080i (50Hz)	EIA/CEA-861-B

CONNECTING PERIPHERAL EQUIPMENT

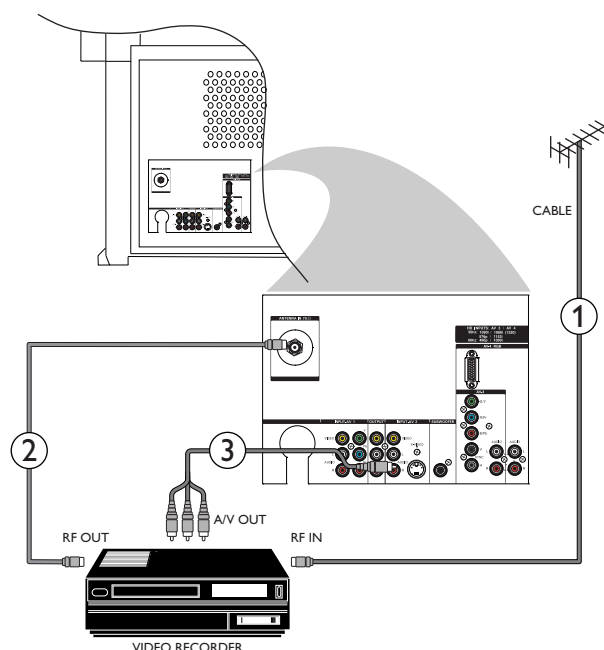
Video Recorder : Playback

- 1 Connect the RF cable to the RF socket on your video recorder.
- 2 Connect another RF cable from the output of your video recorder to the ANTENNA IN 75Ω socket on your TV.
- 3 Better playback quality can be obtained if you also connect the Video, Audio Left and Right (only for stereo equipment) cables to the VIDEO and AUDIO L (mono) and R inputs of INPUT-AV 2.

Note : In case of mono equipment, only the left loudspeaker reproduces sound. Use a mono-to-stereo adapter (not supplied) for sound reproduction via the internal loudspeakers.

The MONITOR OUT connectors can be used for daisy chaining or recording programmes from your TV. See page 23.

S-VHS-Video quality with an S-VHS video recorder is obtained by connecting the S-VHS-Video cable with the S-VIDEO input instead of connecting the video recorder to the VIDEO input. See the handbook for the video recorder.



If You Do Not Make the Video and Audio Connections in Step 3 Above :

Search for and store the test signal of the video recorder.

- 1 Unplug the RF cable from the RF socket of your video recorder.
- 2 Switch on your TV and put the video recorder on the test signal or play a prerecorded tape. See the handbook for your video recorder.
- 3 Search for the test signal of your video recorder in the same way you searched for and stored the TV signals. See pages 9 and 10.
- 4 Store the test signal under programme number 0 or between 90 and 99.
- 5 Replace the RF cable in the RF socket of your video recorder after you have stored the test signal.

CONNECTING PERIPHERAL EQUIPMENT

Video Recorder : Recording

To record S-VHS quality, connect an S-VHS peripheral directly to the video recorder.

Recording a TV Programme

- 1** Select the channel number on your video recorder.
- 2** Set your video recorder to record.
See the handbook for your video recorder.
Switching channel numbers on your TV does not disturb recording.

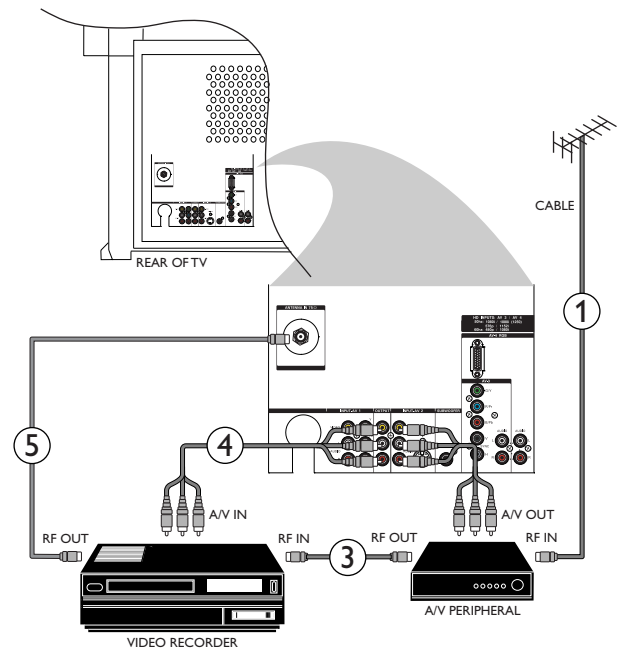
Recording a Programme on Your Video Recorder Connected to **MONITOR OUT** from Audio/Video Equipment Connected to **AV1, AV2**, or to the Sockets on the Side of the TV (**AV3**)

- 1** Switch on the equipment.
- 2** Select the correct external source on your TV and on your video recorder.
- 3** Set your video recorder to record.
You record what you are watching on the screen.
Do not switch channel numbers and do not switch off your TV when you are recording.

CONNECTING PERIPHERAL EQUIPMENT

Video Recorder and Other A/V Peripherals

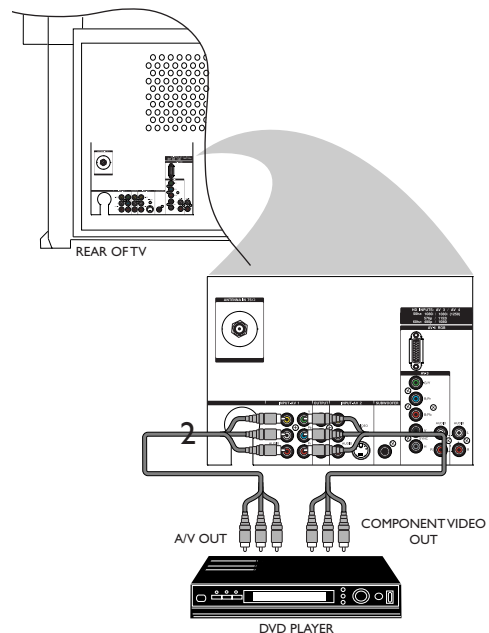
- 1** Connect the RF cable to the RF socket on your A/V peripheral equipment.
- 2** To obtain better picture quality, also connect the Video and Audio left and Audio right (only for stereo equipment) cables to the VIDEO and AUDIO L (mono) and AUDIO R input of the INPUT-AV 2 sockets.
 Note : In case of mono equipment, only the left loudspeaker reproduces sound. Use a mono-to-stereo adapter (not supplied) for sound reproduction via the internal loudspeakers.
- 3** Connect the RF output of the A/V peripheral equipment to the RF input on the video recorder.
- 4** When a video recorder is not connected to MONITOR OUT on your TV, you can record a programme only from the aerial or from the cable system.
 Only when a video recorder is connected to MONITOR OUT is it possible to record a programme from other equipment connected to the TV.
 Connect Video and Audio left (mono) and Audio right cables from the video recorder A/V inputs to the VIDEO and AUDIO L (mono) and AUDIO R sockets of the MONITOR OUT on your TV.
- 5** Connect from the RF output on the video recorder to the ANTENNA IN 75Ω socket on your TV.



DVD Player

Note : Progressive-scan DVD players can be connected to the AV4 or AV5 inputs only.

- 1** Connect the cables of your DVD player with component video output to the Y-Pb-Pr INPUT-AV 1 sockets on your TV.
- 2** Connect the cables from the Video and Audio (L and R) outputs on the DVD player to the INPUT-AV 1 VIDEO and AUDIO L (mono) and R inputs on your TV.
 See the handbook for your DVD player.
 Note : The names of the component video sockets may differ depending on the DVD player or digital source equipment used. For example, besides PbPrY, you may see R-Y/B-Y/Y or CrCbY. Although abbreviations and terms may vary, the letters B and R stand for the blue and red color component signal connectors, respectively. The Y indicates the luminance signal. If necessary, see the handbook for the digital equipment for more information.

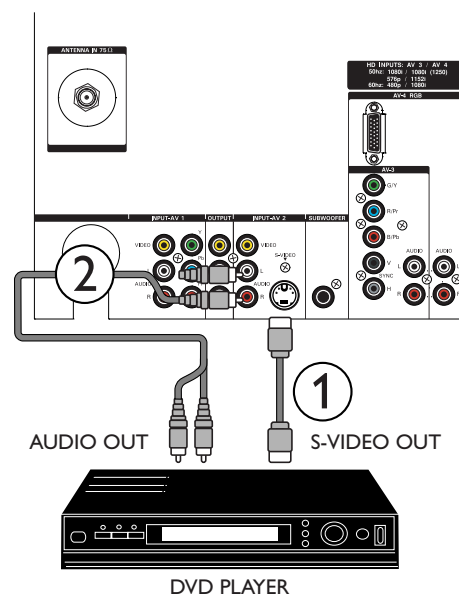


CONNECTING PERIPHERAL EQUIPMENT

S-Video Equipment

Note : Progressive-scan DVD players can be connected to the AV3 or AV4 inputs only.

- 1 Connect an S-VIDEO cable to the INPUT-AV 2 S-VIDEO input.
- 2 Connect the audio cables to the equipment's AUDIO L (mono) and AUDIO R sockets and to the INPUT-AV 2 AUDIO L (mono) and AUDIO R sockets on your TV.



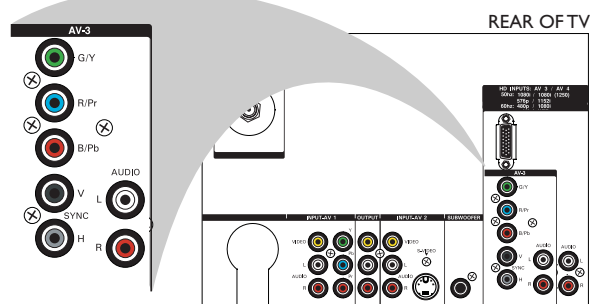
AV3 and AV4 Digital High-definition Inputs

When you have digital equipment with 1080i or 480p signal output (60Hz) or 576p signal output (50Hz), connect it to the AV3 or AV4 inputs on your TV. Examples of such equipment are digital set-top boxes and progressive-scan DVD players.

Connecting to AV3

Connect digital equipment with component video output (usually labeled Y-Pb-Pr) or with RGB output (phono-type connectors) to the AV3 inputs for video and audio left and right. Also connect to the H and V SYNC inputs on the TV if required for your digital equipment.

Note : The AV3 sockets are compatible with some digital equipment having RGB outputs with “sync on green” or RGB with “separate H and V sync.” Output standards for digital equipment, however, may vary by manufacturer. No industry standards have been established for HD television RGB signal systems, timing, synchronization, and signal strengths. If the digital equipment you want to connect to your TV offers both component video and RGB outputs, component video is the suggested connection to use. See the handbook for the digital equipment.



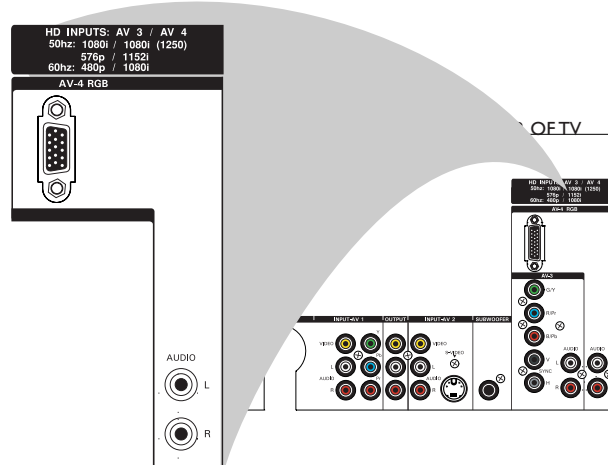
Connecting to AV4

Connect digital equipment with RGB or Y-Pb-Pr output to the AV4 inputs for video and audio left and right. A DB15 cable or adapter cable with a DB15 connector is required.

Note : The AV4 input cannot be used to connect a computer or any other VGA device.

Notes regarding connecting to either AV3 or AV4 :

- See the handbook for the high-definition equipment.
- If you notice scrolling images, wrong colors or no color, no picture or even combinations of these on your screen, check to see if the connections have been done properly.

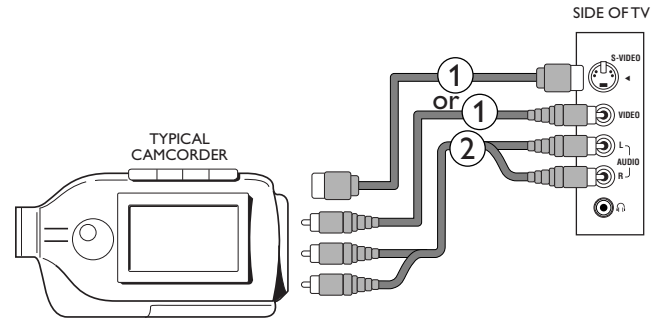


CONNECTING PERIPHERAL EQUIPMENT

Camera and Camcorder

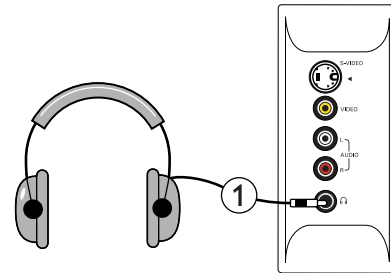
Connect your camera or camcorder to sockets at the side of your TV.

- 1 Connect the equipment to the VIDEO or S-VIDEO socket.
Note : S-VHS quality with an S-VHS camcorder is obtained by connecting an S-VIDEO cable with the S-VIDEO socket instead of making a connection to the VIDEO socket.
- 2 Connect the equipment to the **AUDIO L** socket for mono or both the **AUDIO L** and **R** for stereo.



Headphone

- 1 Insert the plug into the headphone socket ; at the right side of the TV.
- 2 Press  on the remote control to switch off the internal loudspeakers of the TV.



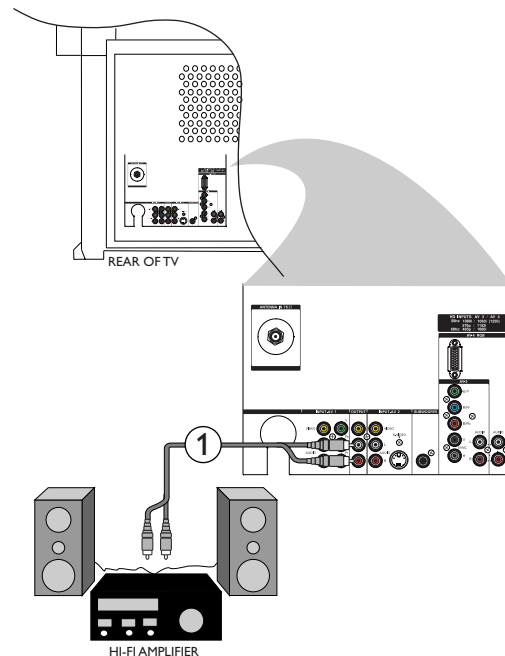
Notes :

- The headphone impedance must be between 8 and 4000 Ohms.
- The headphone socket has a 3.5 mm socket.
- In the SOUND menu, select HEADPHONE to adjust the headphone volume and balance.

Additional Audio Connections : External Hi-fi

If you would like to hear TV programmes through your audio hi-fi system, your TV offers this capability.

- 1 Connect the audio cables to the AUDIO L and R input sockets of your amplifier and to the AUDIO L (mono) and R MONITOR OUT sockets of the TV.
- 2 Turn the TV and audio system on.
- 3 Control the volume of the hi-fi system at the hi-system's amplifier. Volume adjustments made to the TV do not affect the volume of the hi-fi system.

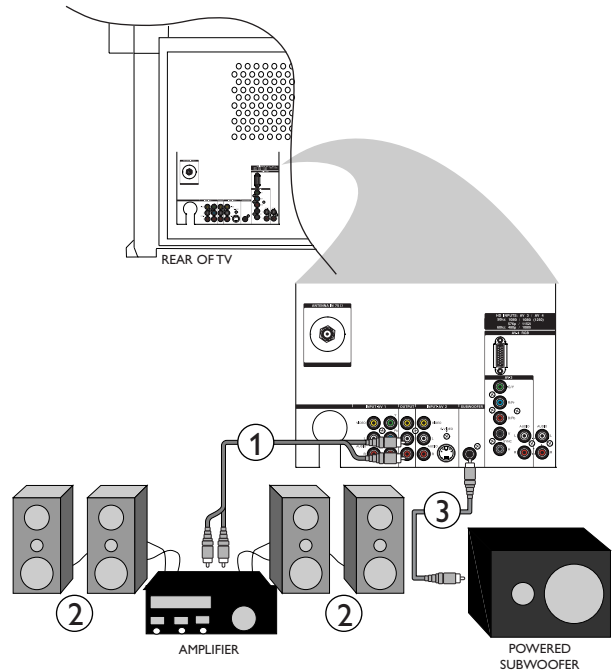


CONNECTING PERIPHERAL EQUIPMENT

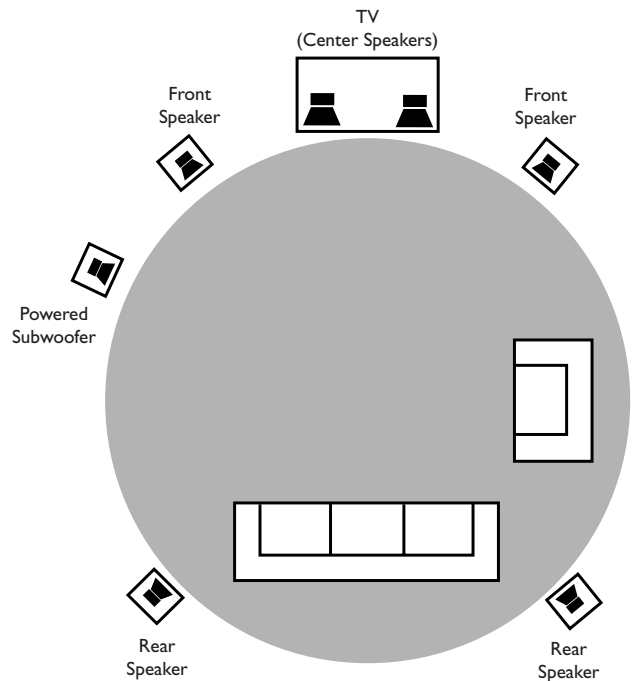
Additional Audio Connections : Surround Sound

Your TV has extra sockets that allow you to connect to an external audio amplifier system and powered subwoofer. This connection will provide a surround-sound experience similar to a movie theatre or concert hall.

- 1 Connect audio cables from the AUDIO L and R MONITOR OUT sockets of the TV to the AUDIO L and R inputs sockets on the surround-sound amplifier.
- 2 Connect speaker wires from the surround-sound amplifier's front and surround-sound speaker sockets to the front and surround-sound speakers.
- 3 Connect an audio cable from the SUBWOOFER output of the TV to the Low Level Input sockets on the powered subwoofer.
- 4 Adjust volume for the surround-sound amplifier and powered subwoofer at those pieces of equipment.



Note: The gray circle indicates the primary viewing area.



SELECTING CONNECTED EQUIPMENT FOR VIEWING

Equipment Connected with an Aerial Cable Only

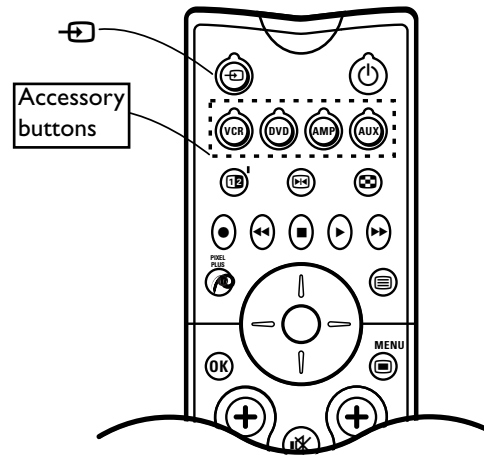
Select the channel number under which you have stored the test signal with the digit keys.

Equipment Connected to the back or to the side of the TV

- 1** Press  to select the AV input for the device you want to use: AV1, AV2, AV3, AV4, or side
- 2** Press the Accessory buttons to control an accessory device with the remote control. You can control a video recorder, DVD, amplifier, or other auxiliary device (CD or SAT). A green indicator lights up. To return to TV mode press the button again, or wait for the light to go out.

TV Channels

Enter the channel number of the TV channel you want to watch with the digit keys.



CARE, CLEANING, AND TIPS

WARNING Concerning Stationary Images on the TV Screen :

Do not leave stationary or “letterbox” images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Avoid showing the same stationary images more than 15 percent of your total viewing in any one week. Sources of stationary images may be DVD discs, laser discs, video games, CD-i discs, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. **Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing) :**

- **DVD menus**—listings of DVD disc content
- **“Letterbox” black borders**—black bars shown along the edges of the picture when a widescreen (16:9) movie is played on TV
- **Video-game images and scoreboards**
- **Television station logos**—present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- **Stock-market tickers**—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.

All picture tubes age with use, with their light output diminishing over time. But by maintaining normal use—mixing television picture types—you will create conditions for the tubes to age at an even rate. The result will be a TV picture that is evenly bright over the entire screen.

PLACEMENT OF THE TV

- See page 4.

CLEANING

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

TIPS

- Do not shift or move the set around when it is switched on. Unevenness in colour in some parts of the screen may occur.

END-OF-LIFE DISPOSAL OF THE TV

Philips is making its products environmentally friendly. Your new TV contains materials that can be recycled and reused. Specialised companies can dismantle your discarded TV at the end of its life, concentrating on the reusable materials and minimising the amount of materials to be disposed. Please be sure to dispose of your old TV according to local regulations.

DISPOSAL OF EXHAUSTED BATTERIES

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many countries exhausted batteries may not be disposed of with your household waste. Please ensure you dispose of exhausted batteries according to local regulations.

BEFORE CALLING SERVICE

Symptom	What to do
TV remote control does not work	• Check that the batteries are installed correctly. • Replace the batteries, if necessary. • Clean the remote control and the remote-sensor window on the TV. • Be no farther than 6 meters from the TV when using the remote control and aim the remote toward the TV's remote-sensor window. • If the remote still will not work, use the keys on the TV.
No power	• Check that the TV's power cord is plugged into the mains socket. If there is still no power, disconnect the plug. Wait for 60 seconds and reinsert the plug and then switch on the TV again. • See if the outlet is controlled by a wall switch. • If you are using an AC power strip, be sure the fuse on the power strip is not blown.
No picture	• Check the antenna connection at the rear of the TV to see if it is properly connected to the TV input terminal. • The broadcast station may be experiencing difficulty. Try another channel. • Adjust the contrast and brightness settings or select another picture setting with the Smart Picture key on the remote control. • If using peripheral equipment through the A/V inputs, be sure it is properly connected. • Be sure you have selected the correct signal source for viewing. • If you are attempting to view a picture from a progressive-scan-capable DVD player connected to the AV3 or AV4 sockets, be sure you have switched the DVD player to progressive-scan mode. • If you are using an HD receiver, be sure its output is set correctly (to HD or SD), based on the connection to the TV you have made.
Good picture but no sound	• Increase the volume. • Check that the TV is not muted; press the  key on the remote control. • When no signal is detected, the TV automatically switches off the sound. This is proper operation and does not indicate a malfunction. • Check the transmission system's sound settings on the set.
Good sound but poor colour or no picture	• Adjust the contrast and brightness setting or select another picture setting with the Smart Picture key on the remote control. • Check the transmission system's colour settings on this set.
Poor picture	• Poor picture quality sometimes occurs when an S-VHS camera or camcorder has been connected to the side panel (AV3) of the TV when another peripheral is connected to AV1 or AV2 simultaneously. In this case, switch off one of the other peripherals.
Snowy picture and noise	• Check the antenna connection.
Colour patch (unevenness)	• Switch off the TV by the mains power key. Wait for 20 minutes before switching on again. • Be sure you have made connections correctly. • If you have connected digital equipment to the AV3 or AV4 sockets, check the colour-space setting on the equipment or TV and change the setting on either if necessary. • Check to be sure the TV is not placed too near speakers or magnetic objects. • Adjust the TV's convergence.
Horizontal dotted lines	• This may be caused by electrical interference from appliances such as hair dryers or vacuum cleaners or other sources such as neon lights. Turn off the appliance or move the TV.
Double images or "ghost" images	• High-rise building or hills may be obstructing reception. Try using a highly directional antenna to improve the picture. • Converge the picture using IntelliSense or Manual Converge.
One white line across the screen	• Switch the TV off immediately and consult a qualified service person.
NICAM sound distortion (crackling noise)	• This could be due to antenna siting or reflected signal. • Switch over to "MONO" by pressing the  key on the remote control.
BlueBlush buttons don't light	• The feature may be disabled. See page 5 to enable it. • Some colors of clothing may not reflect the signal to activate the lighting. Try wearing lighter colors.
BlueBlush buttons light too often or unexpectedly	• The sensors sense any movement with their range. If this is problematic you can disable the feature. See page 5.

If your problem is not solved, switch the TV off and then back on again once. **Never attempt to repair a defective TV yourself.** Check with your dealer or call a TV technician.

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SPECIFICATIONS

Picture/Display

- Aspect Ratio: 16:9
- Display Technology: Projection TV, CRT, 7" liquid cooled
- Picture Enhancement: Acclearium Digital Optics, Active Control + Light Sensor, APAC, Auto Intellisense, Black Stretch, Blue Stretch, Color Enhancement, Color Transient Improvement, Digital Comb Filter, Color Temperature, Digital Natural Motion, Digital Noise Reduction, Dynamic Contrast, LTI, Movie Plus, Pixel Plus
- Screen Enhancements: Saphlon Screen, Anti- Aging Circuit, Anti-Reflection, High Brightness, High Contrast
- Size: 46" or 55"

Supported Display Resolution

- Computer Formats: 640 x 480, 60Hz
- Video Formats: 480i 60Hz, 480p 60Hz, 576i 50Hz, 576p 50Hz, 1080i (1250) 50Hz, 1080i 60Hz, 1080i 50Hz

Sound

- Bass Enhancement: Loudness
- Output Power (RMS): 30 watt RMS (50Hz-10kHz at 5% THD)
- Sound Enhancement: Automatic Volume Leveler, Equalizer
- Speaker Size: 2", 5"
- Speaker Number: 4
- Speaker Type: tweeter, woofer

Tuner/Reception

- Aerial Input: 75 Ohm IEC-Type, 2 Tuner with splitter
- Auto Store: Yes
- Standards: NTSC M (3.58-4.5), NTSC (4.43-5.5), PAL B/G, PAL D/K, PAL I, SECAM B/G, SECAM D/K, SECAM K1

Connectivity

- AV1: 480i 60Hz, 576i 50Hz, CVBS in, PbPrY, Audio L/R in
- AV2: 480i 60Hz, 576i 50Hz, CVBS in, S-Video Y/C, Audio L/R in
- AV3: 1080i 50Hz, 1080i (1250) 50Hz, 1080i 60Hz, 480p 60Hz, 576p 50Hz, PbPrY, RGB+H/V, Audio L/R in
- AV4: 1080i 50Hz, 1080i (1250) 50Hz, 1080i 60Hz, 480p 60Hz, 576p 50Hz, DBI5, RGB+H/V, Audio L/R in
- Side: 480i 60Hz, 576i 50Hz, CVBS in, S-Video Y/C, Audio L/R in, Headphone out
- Output rear: Subwoofer out, CVBS out, Audio L/R out

Convenience

- Child Protection: Child Lock, Parental Control
- Clock Functions: Clock, Sleep Timer
- Convenience Enhancements: Proximity Activated Lighted Controls (BlueBlush Buttons), Auto Program, Auto Picture Modes, Auto Sound Modes, Program Information
- Menu Languages: 69/, 79/: Arabic, Chinese-Simplified, English, Malay
93/: Chinese-Simplified, English
- Picture Functions: Freeze, Replay, Photo Finish
- Picture-in-Picture: Double Window, Mozaic, 2-Tuner
- Remote Control: Universal Remote Control, RC2049, Batteries

Dimensions

46PP9545

- Product Dimensions (WxHxD): 113 cm x 134 cm x 60 cm
- Product Weight: 80 kg
- Carton Dimensions: 125 cm x 140 cm x 71 cm
- Weight incl. Packaging: 91 kg

55PP9545

- Product Dimensions (WxHxD): 134 cm x 145 cm x 65 cm
- Product Weight: 85 kg
- Carton Dimensions: 146 cm x 151 cm x 82 cm
- Weight incl. Packaging: 100 kg

Power

- Complies with Energy Star, less than 1 watt standby
- Mains Power: 69/, 79/: 90-276V, 50-60Hz
93/: 160-276V, 50-60Hz
- Power Consumption: 180 watts average

These technical specifications are subject to change without notice.

中文 / Chinese

感谢您购买本飞利浦产品。关于适用于本产品的飞利浦质量保证，我们建议您向飞利浦 www.philips.com/guarantee 网站查询。飞利浦质量保证将不会影响到您的合法权利。在您无法与互联网联接的情况下，请与当地的飞利浦用户服务中心联系。联系信息请见以下用户服务中心列单。

Hrvatski / Croatian

Dragi kupče,
Hvala na kupnji ovog Philips proizvoda.
Za jamstvo koje vrijedi za ovaj proizvod pogledajte Philipsovu web www.philips.com/guarantee. Philips jamstvo ne utječe na Vaša zakonska prava. U slučaju da nemate pristup internetu, obratite se lokalnom Philipsovom centru za korisničku podršku u svom gradu. Pojediniosti o kontaktima možete pronaći na popisu centara za korisničku podršku.

Dansk / Danish

Kære kunde,
Tak for dit køb af dette Philips produkt. Vedrørende den Philips garanti, der dækker dette produkt, henviser vi til Philips' Web-sted www.philips.com/guarantee. Philips garantien påvirker ikke dine lovmæssige rettigheder. Hvis du ikke har en Internetforbindelse, bedes du kontakte dit lokale Philips Kundecenter. Kontaktoplysninger er som følger:

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Hyvä asiakkaamme,
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Français / French

Cher client,
Nous vous remercions d'avoir acquis ce produit Philips. Pour de plus amples informations sur la garantie Philips applicable, veuillez consulter le site Web Philips www.philips.com/guarantee. La garantie Philips ne remet pas en cause vos droits prévus par la loi. Si vous n'avez pas accès à Internet, veuillez prendre contact avec le Service Consommateurs Philips, dont les coordonnées sont données dans la liste des centres de service aux consommateurs ci-après.

Deutsch / German

Sehr geehrter Kunde,
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ΕΛΛΗΝΙΚΑ / GREEK

Αγαπητέ πελάτη
Σας ευχαριστούμε που αγοράσατε αυτό το προϊόν της Philips. Για την εγγύηση της Philips που καλύπτει αυτό το προϊόν, επισκεφθείτε τη διαδικτυακή τοποθεσία της Philips www.philips.com/guarantee στη χώρα σας. Θα βρείτε τη διεύθυνση αυτή στον κατάλογο με τις διαδικτυακές τοποθεσίες των τοπικών αντιπροσωπειών της Philips παρακάτω. Η εγγύηση της Philips δεν επηρεάζει τα νόμιμα δικαιώματά σας. Σε περίπτωση που δεν έχετε σύνδεση στο Διαδίκτυο, επικοινωνήστε με το Κέντρο Εξυπηρέτησης Πελατών της Philips στην περιοχή σας. Τα στοιχεία επικοινωνίας υπάρχουν στον κατάλογο με τα Κέντρα Εξυπηρέτησης Πελατών, που ακολουθεί.

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Gentile Cliente,
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Nederlands / Dutch

Beste klant,
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Kjære Kunde,
Takk for at du valgte dette produktet fra Philips. Din garanti til produktet finner du på Philips' Internett-side www.philips.com/guarantee. Denne garantien har ingen innvirkning på de rettigheter du ellers måtte ha etter loven. Dersom du ikke har tilgang til Internett, kan du ringe eller skrive til forbrukerkontakten i Philips Norge AS. Kontaktinformasjonen finner du i listen over forbrukerkontakter nedenfor.

Português / Portuguese

Estimado Cliente,
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Русский / Russian

Уважаемый Покупатель!

Благодарим Вас за покупку продукции Phillips. Для гарантии Phillips прилагаемой к этой продукции, мы направляем Вас на веб-сайт компании Phillips www.philips.com/guarantee. Гарантия Phillips не влияет на ваши законные права. Если у Вас нет подключения к Интернету, свяжитесь с местным центром поддержки пользователя Phillips (Consumer Care Center). Подробности связи описаны ниже в списке центра поддержки пользователя (Consumer Care Center).

Español / Spanish

Estimado cliente,

Gracias por comprar este producto Philips. En lo que respecta a la garantía, le remitimos al sitio web de Philips www.philips.com/guarantee. La garantía Philips no afecta a sus derechos legales. Si no dispone de conexión a Internet, póngase en contacto con el centro de atención al cliente de Philips en su país. Los datos de contacto también se detallan a continuación.

Svenska / Swedish

Bäste Kund,

Tack för att du valt denna Philips-produkt. Vad gäller Philips garanti för produkten, hänvisar vi till Philips webbplats www.philips.com/guarantee. Philips garanti påverkar inte dina lagstadgade rättigheter. Om du saknar Internet-anslutning, var då vänlig och kontakta ditt lokala Philips Consumer Care Center (kundstödscentrum). Kontaktuppgifter finns angivna i efterföljande listning av Consumer Care Centers.

English

Dear Customer,

Thank you for purchasing this Philips product. For the Philips warranty applicable to this product, we refer you to the Philips website www.philips.com/guarantee. In the event you do not have an Internet connection, please contact your local Philips Consumer Care Centre. Contact details are given in the Consumer Care Centres list hereafter.

CONSUMER INFORMATION CENTRES

SHQIPERIA / ALBANIA

Electroservice
Rr: Qamil Guranjaku
Tirana
Phone: +355 4 365 314

NED. ANTILLEN / ANTILLES

Philips Antillana N.V.
Kaminda A.J.E. Kusters 4
Zeelandia
P.O. box 3523-305 I
Willemstad, Curacao
Phone: (09)-4612799

ARGENTINA

Philips Argentina S. A.
Centro de Informacion al Usuario
Vedia 3892
1430- BUENOS AIRES
Phone: (01) - 45442047

HAYASTAN / ARMENIA

Samgira
Arshakuniants 125A
YEREVAN - 7
Komitas 58/12 (em 020812)
Phone: +374 1 522 278

ÖSTERREICH / AUSTRIA

Telefon: 0810 00 1203
(Mo./Fr. 08-18 Uhr).

AUSTRALIA

Philips Consumer Electronics
Technology Care Centre
Level 2, 65 Epping Rd, North Ryde
SYDNEY NSW 2113.
Phone: 1 300 363 391

AL BAHRAYN / BAHRAIN

Mohammed Fakhroo & Brothers
P.O. Box 439
Manama
Phone: 973 700424

BANGLADESH

Philips Service Centre
100 Kazi Nazrul Islam
Avenue Kawran Bazar C/A
Dhaka-1215
Phone: (02)-812909

БЕЛАРУСЬ / BELARUS

ASTline Ltd.
Petrus Brovsky st. 17-411
220 072 Minsk
Phone: +375 2 841 118

CTI
Korolya Street 26
220 004 Minsk
Phone: +375 172 105 678

BELGIË / BELGIQUE / BELGIUM

Twee Stationsstraat 80/
80 Rue des Deux Gares
1070 Brussel/Bruxelles
Tel: 070-222 303

BOSNA I HERCEGOVINA / BOSNIA & HERZEGOWINA

TV Laboratorij
Halaci br. 16
Sarajevo BiH 71000
Phone: +387 33 5356 33

BRASIL / BRAZIL

Philips da Amazonia Ind. Eletr. Ltda.
CAIXA POSTAL: No: 21.315
CEP 04602-970 - Sao Paulo -SP
Fone: 2121-0203 em Sao Paulo
Fone: 0800 701 02 03 nas demais localidades.

БЪЛГАРИЯ / BULGARIA

Pan Service Ltd.
j.k. Mladostl, Block 1G
1750 SOFIA
Phone: + 359 2 975 1410

Retel Ltd
G.M. Dimitrov Blvd Bl. 60 - entrance G
Sofia - 1172
Phone: + 359 2 962 4649

CANADA

Consumer Service Division
4977 Levy Street
Ville St.Lurent,
Quebec H4R2N9
Phone: 1-800-363-7278 (English)
Phone: 1-800-661-6162 (Français)

CENTRAL AMERICA & CARIBBEAN

Philips Caribbean-Panamá, Inc.
Calle 50 y Aq. de la Guardia
Edif. American International 2nd floor
P.O.BOX 873941, Panamá 7
REP. de PANAMA
Phone: (507) 223-9544

CHILE

Philips Chilena S. A.
Avenida Santa Maria 0760
P. O. box 2687
SANTIAGO DE CHILE
Phone: (02)-730 2230

中国 / CHINA

Philips Authorized Service Centre
飞利浦授权服务中心
148 fu Jian Road M
200001 Shanghai
电话: (02)-812909

Philips Authorized Service Centre
飞利浦授权服务中心
801 Dong Feng Road East
Guangzhou 510080
电话: (020)-7766990
传真: (020)-7766990

Philips Service Logistic Centre
飞利浦服务物流中心
P.O. Box 002-027, Nextage Dep.
Store
Puding New District
200002 SHANGHAI
电话: (021)-63511263

Authorized Service Centre
授权服务中心
Building 6, West Street
Chong Wen Men, Beijing, Jin Bang Co.
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100051 BEIJING
电话: (010)-65122276

COLOMBIA

Industrias Philips de Colombia
S. A. - Division de Servicio
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Apartado 4282

Bogota
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9800 - 18971 (Toll free)

HRVATSKA / CROATIA

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Kalinovica 3
10000 Zagreb
Telefon: 01 3033 754/751/755/731

ČESKÁ REPUBLIKA / CZECH REPUBLIC

Infolinka Philips
Safrankova 1
155 00 PRAHA 5
Phone: 233099330
Fax: 233099320

DANMARK / DENMARK

Philips Kundecenter
Frederikskaj 6
1780 København V
Danmark
Tlf: 80 88 28 14

SUOMI / FINLAND

Oy Philips Ab,
Linnoitustie 11, 02600 Espoo,
Helsinki, Finland
Puh.: 358-09-6158 0250

LA FRANCE / FRANCE

Service Consommateurs Philips
BP 0101
75622 Paris Cédex 13
Téléphone: 08 25 88 97 89
(€ 0.15 TTC la minute)

SAK'ART'VELO / GEORGIA

Chimmer Ltd.
8 Baratashvili street
Philips Center
380005 Tbilisi
Phone: +995 32 99 70 25

DEUTSCHLAND / GERMANY

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(Mo./Fr. 08-18 Uhr).
www.philips.de

ΕΛΛΑΣ / GREECE

ΦΙΛΙΠΣ ΕΛΛΑΣ ΑΕΒΕ
25^{ης} ΜΑΡΤΙΟΥ 15
ΤΚ 17778 ΤΑΥΡΟΣ
Τηλέφωνο: 00800 312 212 80
(χρέωση μίας αστικής μονάδας)

香港 / HONG KONG

Philips Hong Kong Ltd.
16/F Hopewell Ctr.
17 Kennedy Road
WANCHAI
Phone: 2821-5345

MAGYARORSZÁG / HUNGARY

Philips Hungary Ltd.
H-1119
Budapest, Fehérvári út 84/A
Phone: + 36 1 382 1700

भारत / INDIA

Philips India.
Bandbox House
254-D DrA Besant Road, Worli
Bombay 400 025
Phone: (022)-4926611

Customer Relation Centre
7 justice Chandra Madhab Road
Calcutta 700 020
Phone: (033)-747333

Customer Relation Centre
3,Haddows Road
Madras 600 006
Phone: (044)-8292221

Customer Relation Centre
68, Shivaji Marg
New Dehli 110 015
Phone: (011)-5469692

INDONESIA

Philips Group of Companies in
Indonesia
JLBuncit Raya Kav. 99-100
12510 Jakarta
Phone: (021)-7940040

IRELAND

Philips Electronics Ireland Limited
Consumer Information Centre
Newstead, Fonthill Industrial Park
Dublin 22
Phone: 353-1-7640292.

IRAN

ElectroZoom
50, Mahnaz Street
15336 Tehran
Phone: 98 21 8756940

YISRA'EL / ISRAEL

Electra Trade Ltd.
P.O. Box 4455
Rishon Le Zion
Phone: 972 3 9530695

ITALIA / ITALY

Philips Consumer Electronic
Servizio Consumatori
Via G. Casati, 23
20052 Monza - Milano
Telefono: 199 118899

QAZAQSTAN RESPUBLIKASY KAZAKHSTAN

Classic Service t.o.o.
90 Satpaev Street
480046 Almaty
Phone: + 7 3 272 464 483

한국 / KOREA

Philips Korea Ltd.
Philips House
C.P.O. box 3680
260-199,
Itaewon-Dong
Yongsan-Ku
Seoul 140-202
Phone: (02)-5961195/1196
Phone: (02)-5967632/76325

AL KUWAYT / KUWAIT

Yusuf Alghanim & Sons
P.O. Box 223
13003 Safat
Phone: 965 484 2988/4565

CONSUMER INFORMATION CENTRES

LUBNAN / LEBANON

A-Z electronics
P.O. Box 11
2833 Beyruth
Phone: 961 1 684900

LUXEMBOURG / LUXEMBURG

Twee Stationsstraat 80/
80 Rue des Deux Gares
1070 Brussel/Bruxelles
Tel: 00-32-70 222 303

РЕПУБЛИКА МАКЕДОНИЈА / MACEDONIA

C.S.S.
Vasil Glavinov 3, blok 10
91000 SKOPJE
Phone: +389 2 109 857

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Philips Malaysia Sdn.Berhad Service Dept.
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46200 Petaling Jaya, Selagor
P.O.Box 12163
50768 Kuala Lumpur
Phone: (03)-7562144

MAURITIUS

Ireland Blyth Ltd
Tamatave Street
Port Louis
Phone: 230 212 6061

MEXICO

Norte 45 No. 669
Col. Industrial Vallejo
C. P. 02300
MEXICO, D. F.
Phone: 18005046200

MAROC / MOROCCO

Philips Electronique Maroc.
304,BD Mohamed V
Casablanca
Phone: 02 2302992

NEW ZEALAND

Philips New Zealand Ltd.
Consumer Help Desk
2 Wagener Place
Mt. Albert
P.O. box 1041
Auckland
Phone: 0800 477 999 (toll free)

NEDERLAND / The NETHERLANDS

Philips Consumentenlijn
Postbus 102
5600 AC Eindhoven
Tel: 0900-8406 (10 Euro cent per min.).

NORGE / NORWAY

Philips Norge AS
Sandstuveien 70
PO Box 1 Manglarud,
N-0012 Oslo
Tlf: 22-748 250

OMAN

Mustafa & Sultan Electronics
P.O. Box 3340
112 Ruwi
Phone: 968 565553

پاکستان / PAKISTAN

Philips Electrical Ind. of Pakistan
F-54, S.I.T.E, P.O. Box 7101
75730 Karachi
Phone: (021)-2560071-82

Philips Consumer Service Centre
168-F, Adamjee road
Rawalpindi Cantt.
Phone: (051)-580902-3

PARAGUAY

Philips del Paraguay S.A.
Avenida Artigas 1519
Casilla de Correos 605
Asuncion
Phone: (021)-211666

PERU

Philips Peruana S.A.
Customer Desk
Comandante Espinar 719
Casilla 1841
Lima. 18
Phone: 51-1-2136243

PILIPINAS / PHILIPPINES

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