Rear-projection TV
with HD Input

# *Your Television's Directions for Use*

***46PW9527***
***51PW9527***

*Let's make things better.*

PHILIPS

3135 035 xxxxx

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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

Philips HD Pix Optics System answers the demand for extreme resolution HD with cutting-edge processing and display technology, including microphosphor CRTs, hybrid projection lenses, first-surface mirrors, fine-pitched lenticular screens, and Philips wide-band amplifier.

Auto IntelliSense® Focus Automatically adjusts the picture convergence at the push of a key. After reviewing a special test pattern, optical sensors send position information to the controller, which then corrects the picture. Auto IntelliSense® Focus responds to the natural and man-made magnetic field conditions where the projection TV is located, so you always enjoy the best possible picture.

100Hz Digital Scan eliminates picture flickering and line jitter, offering a stable picture for relaxed viewing (no eye strain). The 100Hz digital scan option can be selected in the onscreen menu.

Progressive Scan doubles the number of visible picture lines per field by displaying all picture frame lines at once. This minimizes the visibility of the scan lines. The progressive scan can be selected in the onscreen menu.

High-definition Inputs allow you to connect digital equipment with 1080i and 480p signals for 60Hz and 576p signals for 50Hz. The AV4 sockets are for YPbPr or RGB+HV sync connections. The AV5 sockets are for RGB (or YPbPr with adapter) DB15 connections, plus audio.

Component Video Inputs support advanced video input—such as DVD video—for superb colour performance.

Active Control™ continuously measures and corrects all incoming signals with automatic digital noise reduction and auto sharpness to provide the best possible picture.

Automatic Phosphor Aging Compensation (APAC™) functions like a screen saver for your TV. Nonmoving images can be bad for a television screen. If a video image remains stationary, it can eventually leave a permanent after-image. Video games and the stationary black bars around some movies are examples of sources of concern. Philips APAC technology addresses this problem. Periodically, APAC automatically shifts your television picture in increments that are very small and yet large enough to blur image retention that can lead to screen burn. Coupled with the Philips Auto Screen Format feature, APAC helps provide you protection from the dreaded screen burn.

Protective Screen Filter *(if provided; availability varies)* gives the best possible picture while still protecting your investment. Specifically formulated by Philips for HD displays, this protective screen filter helps prevent accidental damage to the delicate front lenticular screen.

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

Digital Comb Filter makes the finest colour details purer and sharper. It eliminates disturbing cross-colour (Moiré) effects between different colours that you normally see with striped clothing worn on camera. The digital comb filter works by electronically separating the chroma (colour) and luminance (black and white) components of the TV signal, preventing cross-colour interference.

Dual-window, Two-tuner Picture-in-picture (PIP) allows you to watch two shows, side by side. No video recorder is necessary for tuning PIP pictures. Your set's two separate tuners let you select two shows and display both in windows of equal proportion.

Supporting Features

- Digital Colour Transient Improvement (CTI)
- Digital Histogram
- Picture Freeze
- Auto Aspect Ratio Adaptation (and 4:3, expand 4:3, panorama, wide screen)
- Incredible Surround™
- Automatic Volume Leveler (AVL)
- Independent Headphone Volume Control
- Easy Tune™ (Auto Search, Auto Tune, and Auto Install)
- Alternate Channel
- Smart Surf
- Low-power standby (<1 W)

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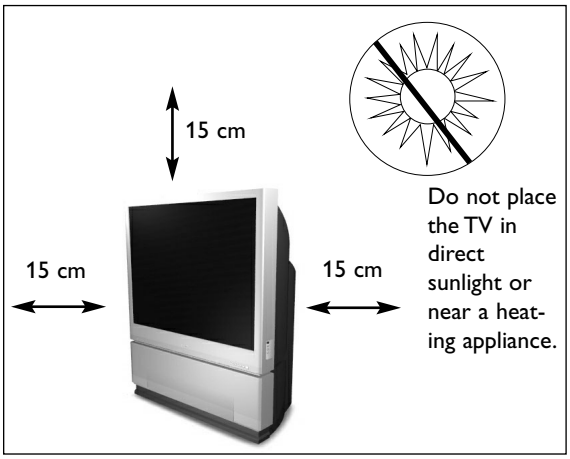
# INSTALLING THE TV

**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.

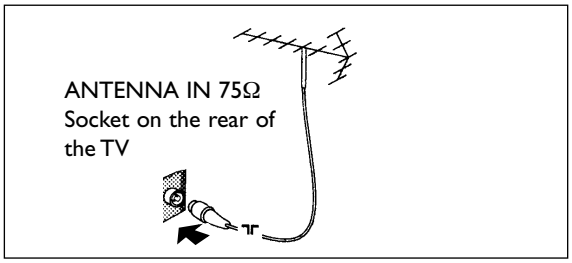
Be sure to allow a minimum of 15 cm of space around the TV.

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.

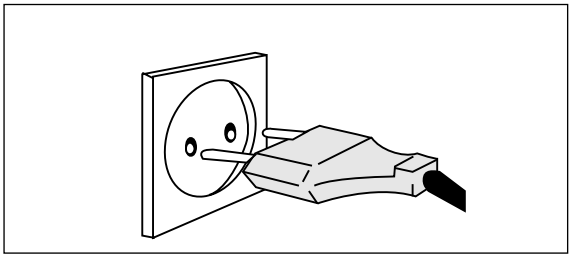
Magnetic fields, such as those of external speakers, may cause the picture to distort if the speakers are placed too close to the television. Move the magnetic field source away from the TV until there is no picture distortion.




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



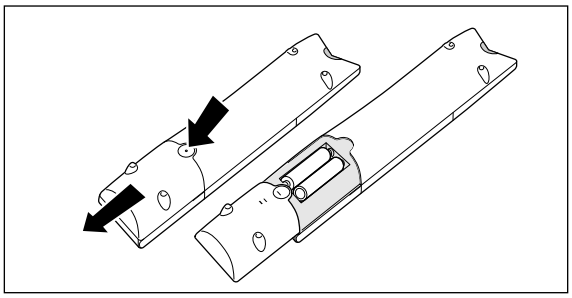

**3** Insert the mains plug in the wall socket. Refer to the back of the TV set for the correct operation voltage. Consult your local dealer if your main supply is different. To prevent damaging the mains (AC) cord, which could cause hazard, do not place the TV on the cord.



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

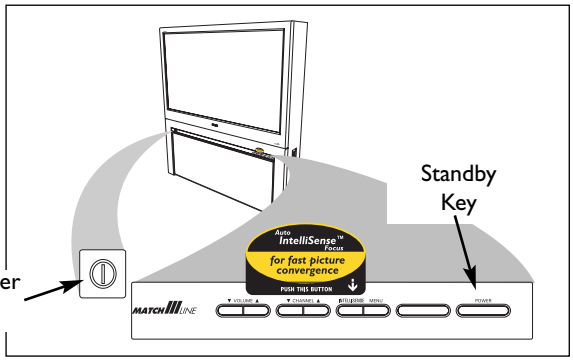
The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many countries exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of exhausted batteries according to local regulations.

See the battery caution statement on page 2.

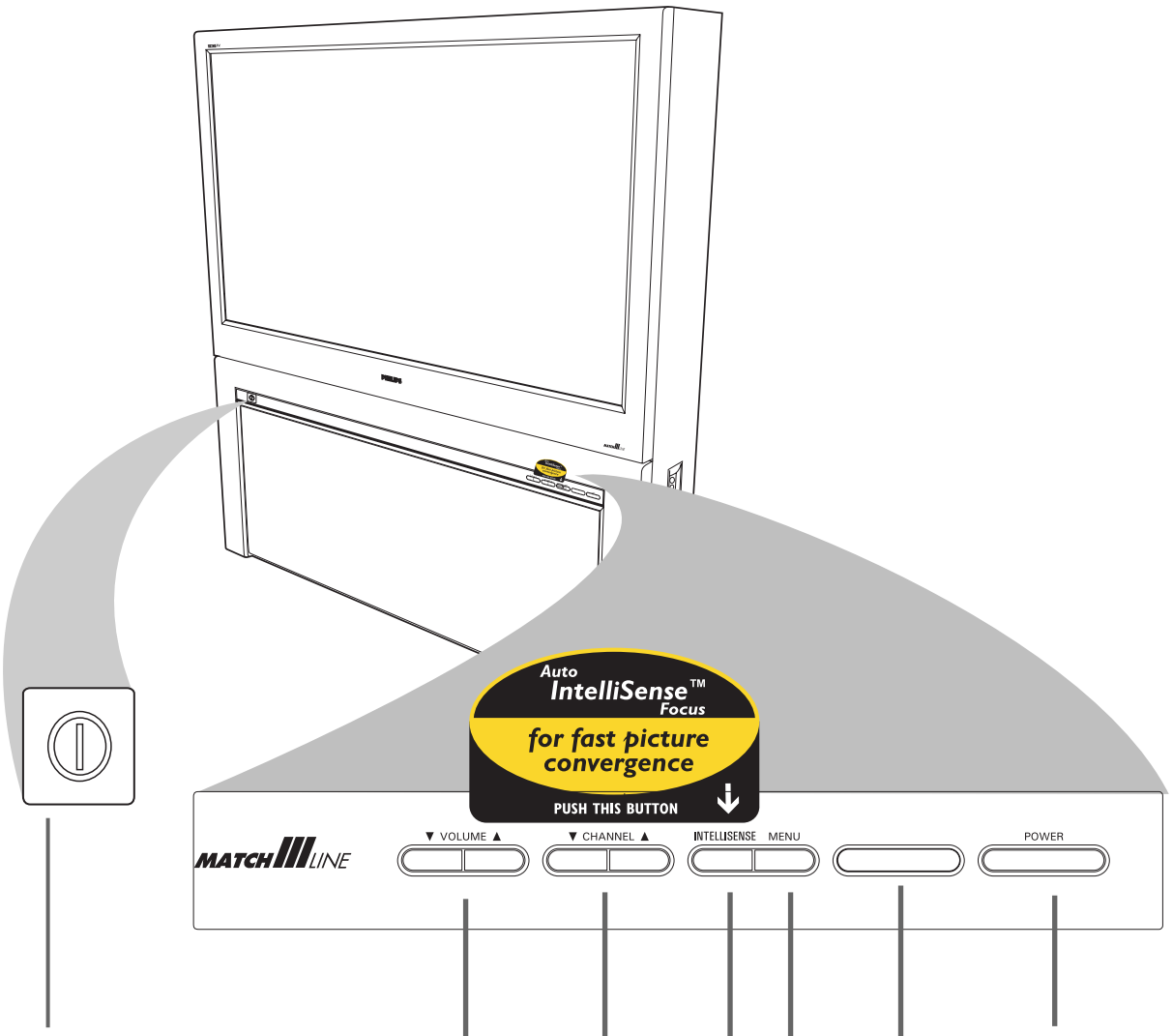


**Note** : This remote control functions with TVs that use the RC5 signalling standard.

**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




**MAINS POWER KEY**
Switches the mains power on or off.

**VOLUME ▽△**
The ▽ key adjusts the sound volume softer. The △ key adjusts the sound volume louder. When using the on-screen menu, press Volume ▽ or △ to navigate right and left and down.

**CHANNEL △▽**
The ▽ key selects channels in descending order. The △ key selects channels in ascending order. When using the on-screen menu, press Channel △ or ▽ to navigate up and down.

**STANDBY**
Switches the TV on or activates standby mode.

**REMOTE SENSOR**
Receives infrared commands to activate controls when the remote-control handset is aimed at it and remote keys are pushed.

**MENU**
Press to activate th on-screen menu. Navigate the menu by using the Volume and Channel buttons.

**IntelliSense**
When pressed, automatically adjusts the set's picture convergence using the Auto IntelliSense® focus feature.

# USING THE REMOTE CONTROL KEYS

**SOURCE SELECT**
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 TV, CBL, VCR or Amplifier by pressing the button once. A green indicator lights up. When you press the button again for 1 second you can control a HD, SAT, DVD, or CD. A red indicator lights up. To return to TV mode press the TV button.

**DISPLAY 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.

**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.

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

**DYNAMIC NOISE REDUCTION (DNR)**
Press to select Off, Minimum, medium, or maximum.

**OK**
Press to activate or select menu choices

**CURSOR LEFT**
Press to navigate the menus and adjust the settings.

**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.

**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.

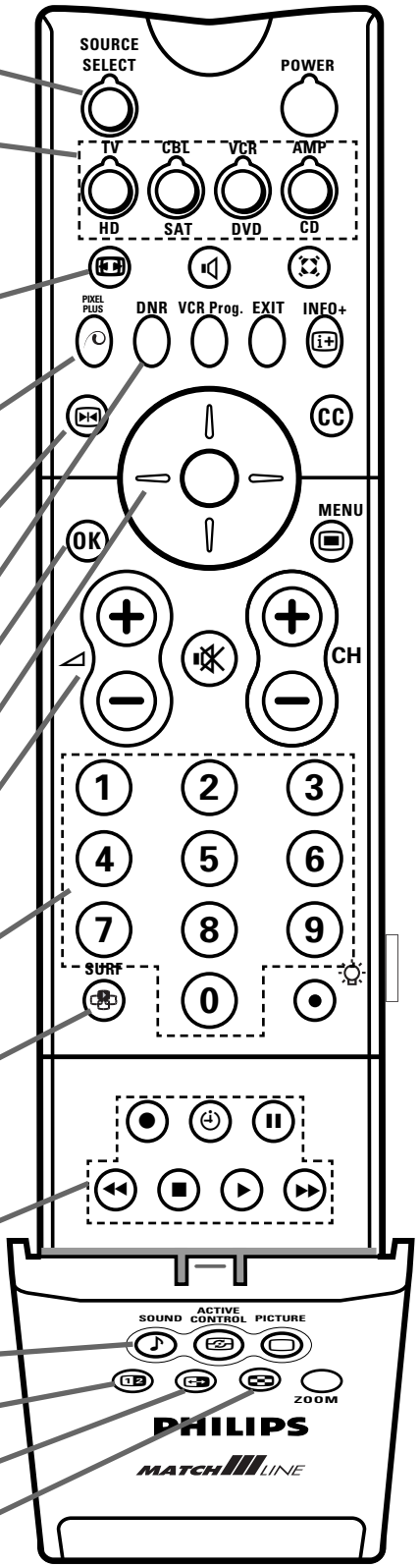
**VCR BUTTONS**
Use with a Video recorder. Press ● to record, ◀◀ and ▶▶ to search, ■ to stop and ▶ to play. Press ⏲ to activate the timer.

**SOUND**
Press to select a preset sound setting.

**PICTURE-IN-PICTURE (PIP)**
Press to access the Picture-in-Picture and Dual-window features.

**SWITCHING DUAL SCREEN**
Press to switch dual screen/PIP formats.

**Multipip**
Press to select

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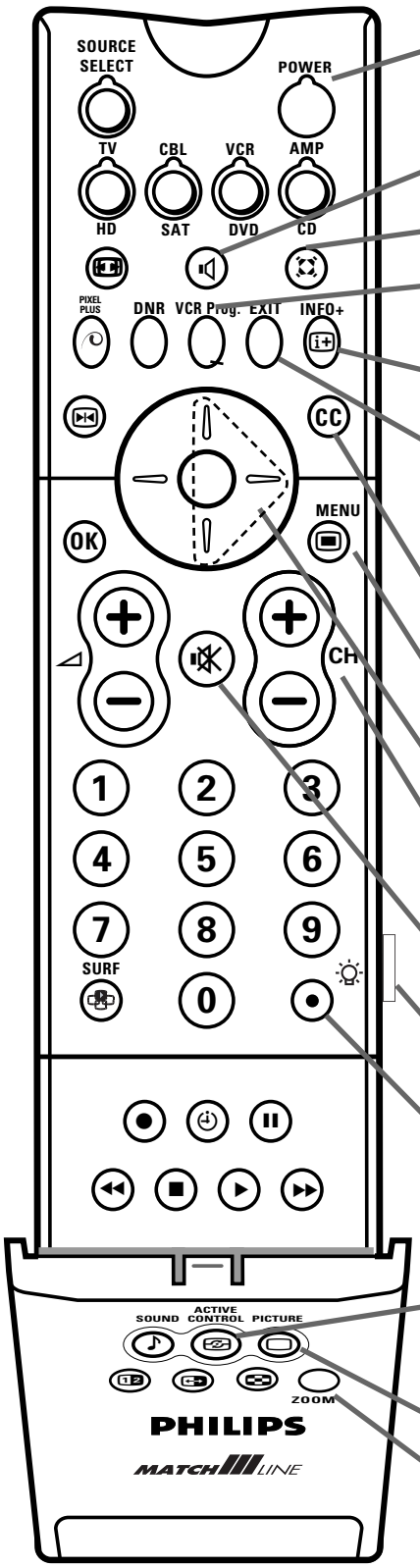
# USING THE REMOTE CONTROL KEYS




### STANDBY

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

### ALT AUDIO (if available)

Press to toggle between SAP (Second Audio Program) and the primary audio.

### 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.

### VCR PROG.

Press to access the VCR program if available

### i+ (STATUS)

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

### EXIT

Press to exit the menus of accessory devices.

### CC

Press to turn Closed captioning On, Off, or On with Mute

### MENU ON/OFF

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

### CURSOR UP, DOWN, RIGHT

Press to navigate the menus and adjust the settings

### CHANNEL +/–

Press to select channels in ascending and descending order.

### MUTE

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

### Backlight

Press to light the volume, channel, and digit buttons for 5 seconds.

### 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.

### ZOOM

Press to activate zoom mode. Press OK repeatedly to select the Zoom level (x1, x4, x9, x16).

# USING THE MENUS : OVERVIEW

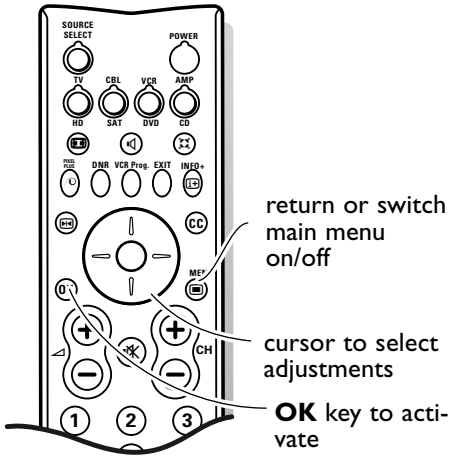
1 Press the **MENU** ▣ key on the remote control to summon the main menu.
*Note: Should your remote control be lost or broken you can still use the keys on the front of the TV. See p. 8.*

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.



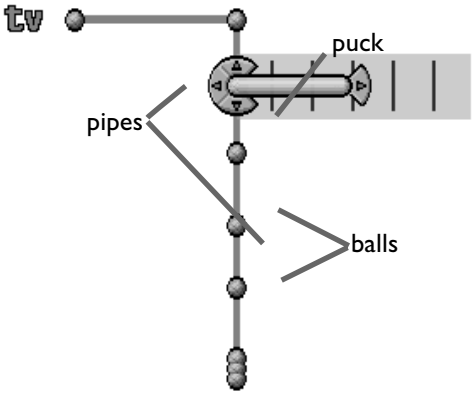

## The menu system

**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.

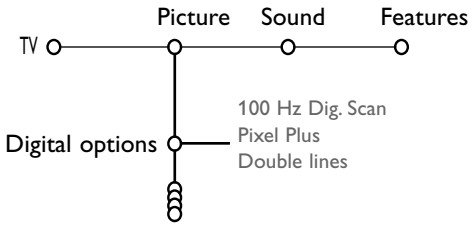
When menu items cannot can fit on the TV display, only a portion is shown.
Those omitted are indicated by a cluster of.




**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.

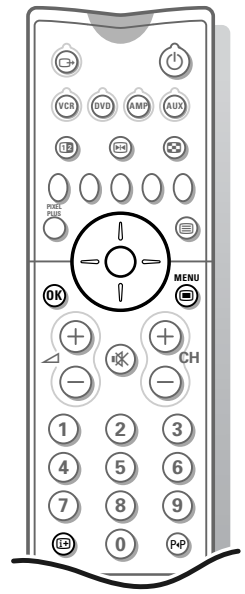
*When you switch on your TV for the first time and no channels are stored so far, the menu Language automatically appears on the screen. This menu also has an additional item **Exit** with which the menu can be dismissed. The explanation appears in different languages one at a time. Choose your preferred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

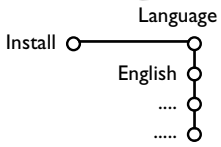
**2** Use the cursor down to select **Install**.

**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

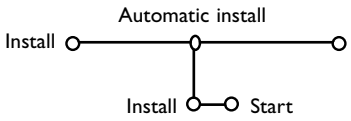
**1** Select **Automatic installation** in the Install menu.
*Note: All channels must be unlocked in order to autoprogram. If requested, enter your PIN to unlock all channels. (See TV, Features menu, Child lock, p. 13.)*

**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.*

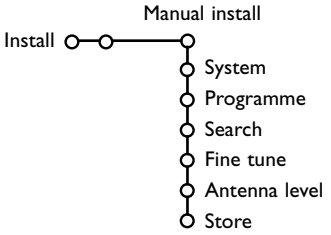
## Manual Channel installation

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

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

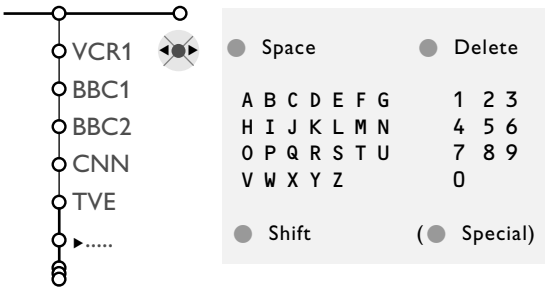
*Note: Search or direct selection of a TV channel. If you know the frequency, enter the 3 digits of the frequency directly with the digit keys 0 to 9 (e.g. 048). Press the cursor down to proceed.*

**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

## 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.

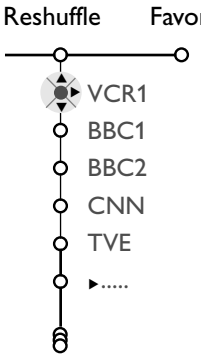
It is possible to change the name stored in the memory or to assign a name to a TV channel for which a name has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,... Before programme number 0 you can also enter a name for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

**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.

## Reshuffle the programme list

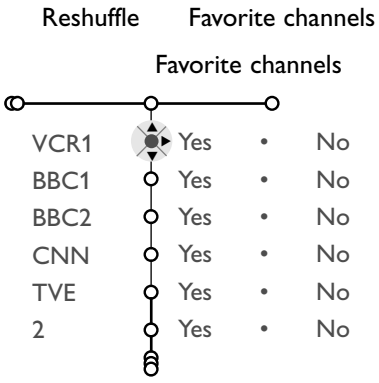
According to your preference you **can** change the order of the stored TV channels.




**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.

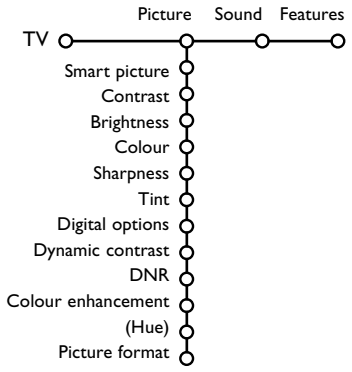
**4** Repeat 2 and 3 for every TV channel or external you want to make a favourite or a non-favourite TV channel or external.

## Picture menu

Use the Picture menu to adjust picture settings. Use the on-screen Menu-Info [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 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.

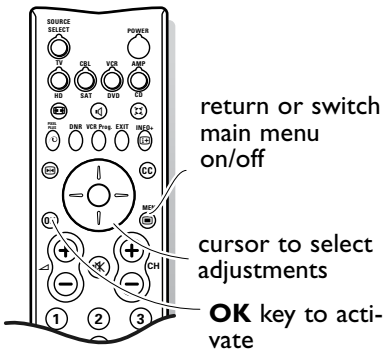
The modified adjustments for Contrast, Brightness, Colour, Sharpness, Tint, Digital options and Dynamic Contrast are automatically stored.
Select **Factory settings** in the Setup menu, General, to restore the predefined factory settings, see p. 14.




### 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.
- **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**

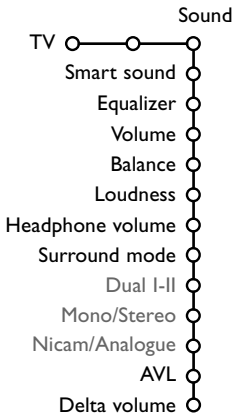
*Note:*

- *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 [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 right to select **Sound**.

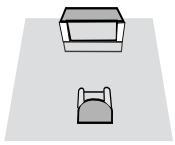
**3** Select the menu items in the Sound menu with the cursor up/down and adjust the settings with the cursor left/right.
Remember, control settings are at normal mid-range levels when the bar scale is centred.

*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.*

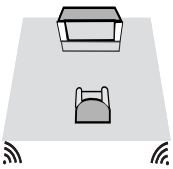
### Surround Modes

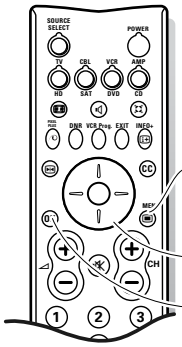
Dependent on the sound signal broadcasted, select one of the Surround modes.

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



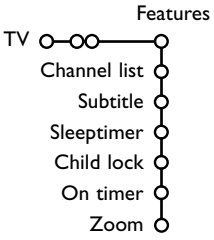
**Dolby* virtual** creates a virtual surround sound experience from two speakers. Dolby Virtual retains all the original multi-channel audio information and provides the listener with the sensation of being surrounded by additional speakers.





## Features menu

Use the Features menu to adjust sound settings. 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 right to select **Features**.

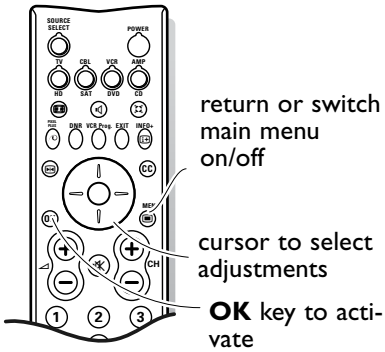
**3** Select the menu items in the Features menu with the cursor up/down and adjust the settings with the cursor left/right.

### 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.



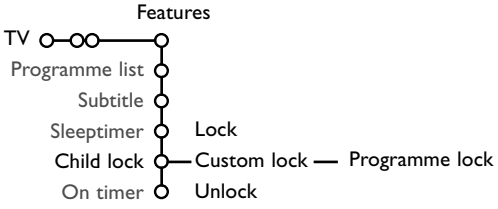

### Child lock

**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. 13.
- 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

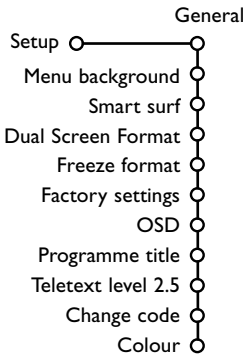
Use the General menu to adjust settings that are not changed often. Use the on-screen Menu-Info [i+] for more information about the menu items

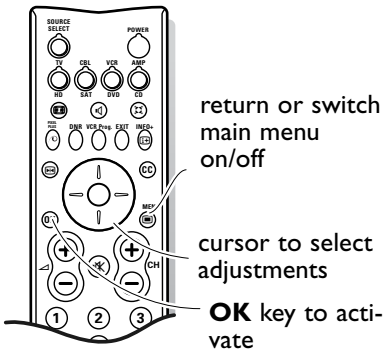
**1** Press the **MENU** [▣] key on the remote control to summon the main menu.

**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.



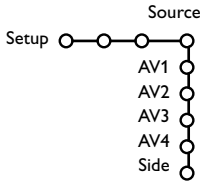

*Note:*

- *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 b 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 and backgrounds.*
- *Change Code is used to set a new 4-digit personal code.*
- *Colour sets the correct colour system.*

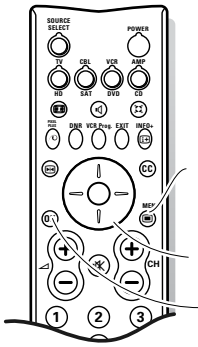
# USING THE MENUS : SOURCE AND CONVERGE

## 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



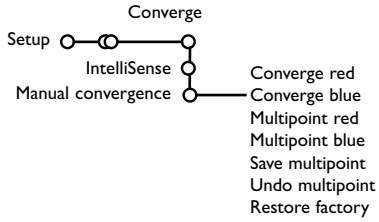

1. Press the **MENU** key on the remote control to summon the main menu.
2. Press the cursor down to select **Setup**.
3. Press the cursor right to select **Source**.
4. Press the cursor down to select one of the external inputs.
5. Press the cursor right to enter the list of names of peripherals attached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



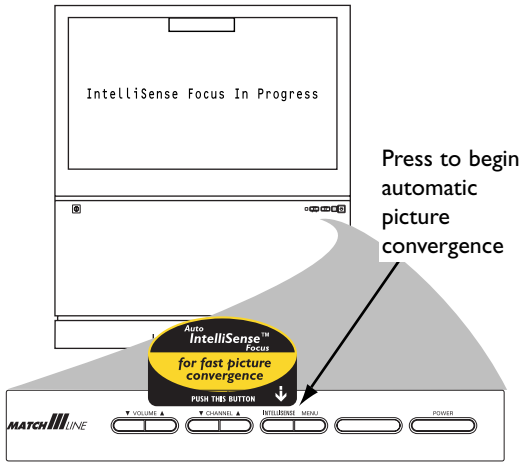

Once you have selected the source, e.g. VCR, this AV-input will automatically be selected when your remote control is in VCR mode and when you press the VCR button on the remote control. See p. 23.

## 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.

# 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.

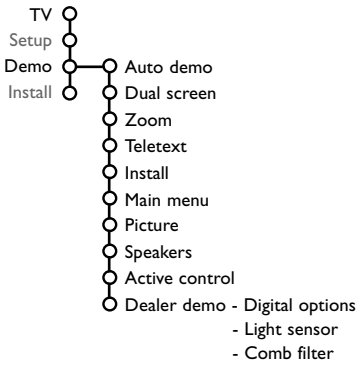
2 Select **Demo** in the Main menu with the cursor down.

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.

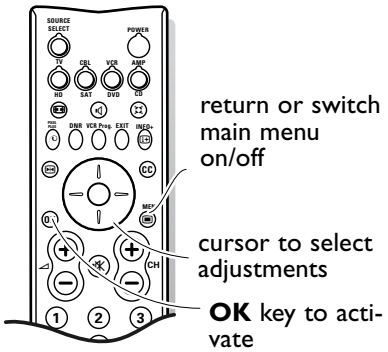
•If one of the features has been selected, this particular feature demo will run one time only, until activated again, and the Demo menu will reappear.




**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.*



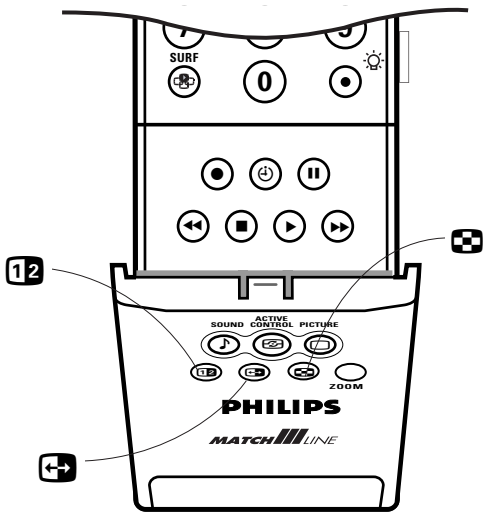
# USING PICTURE-IN-PICTURE (PIP)

The Picture-in-Picture (PIP) feature allows you to call up a subscreen within your main screen to watch two more or 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 ⊡ 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 1 2 key choose another PIP size.




### Switching Screens

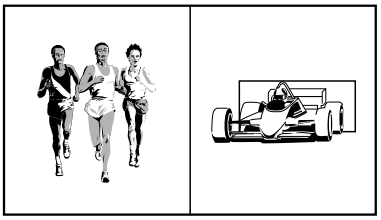
Press the ⇄ button to swap the main screen and the auxiliary screen.

### Changing PIP Channels.

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

### Moving the PIP screen

When a single PIP format is selected, press the OK button to make the PIP screen movable. Press the cursor up/down, left/right to move the PIP screen in the direction of the cursor press.



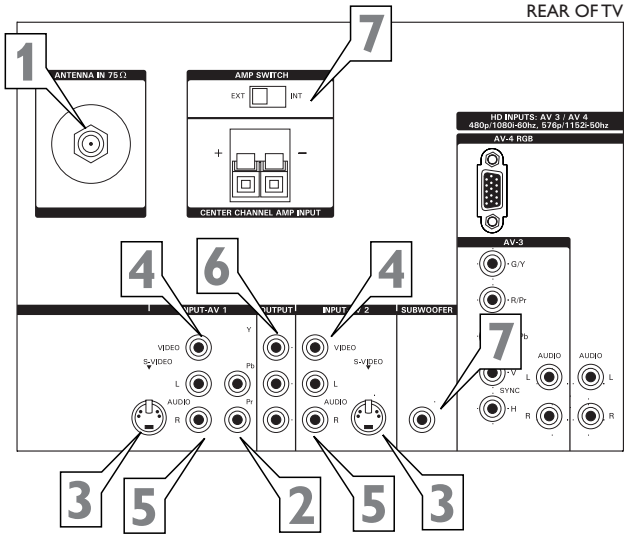
Note:

- Multipip is disabled when a picture is being displayed from the AV3 or AV4 source;
- Pictures from an AV3 or AV4 source will never be displayed in Multipip:
- Display Format is disabled when Multipip is active.

# Connecting Peripheral Equipment

Y ou 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** **YPbPr (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(eft) 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.

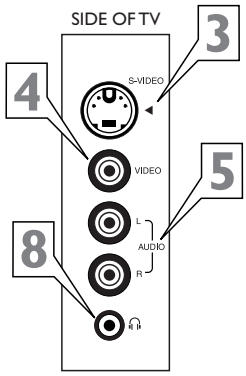
**4** **VIDEO (composite) sockets (INPUT-AV 1, INPUT-AV 2, and TV's side socket panel [AV3])**—compatible with 480i and 576i signals. Use to connect peripherals having composite video outputs, such as VCRs, video-game players, or other equipment.

**5** **AUDIO inputs (INPUT-AV 1, INPUT-AV 2, and TV's side socket panel [AV3])**—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** **AMP SWITCH, CENTER CHANNEL AMP INPUT, and SUBWOOFER Output—**use to make optional surround-sound connections.

**8** **Headphone socket (stereo, 3.5 mm)**—use to connect headphones for personal listening. The headphone impedance must be between 8 and 4000 Ohms.




**Note** : The side panel is AV3.

# Connecting Peripheral Equipment

The AV4 and AV5 sockets allow you to connect digital equipment with 1080i/480p (60Hz) or 576p (50Hz) signal output.

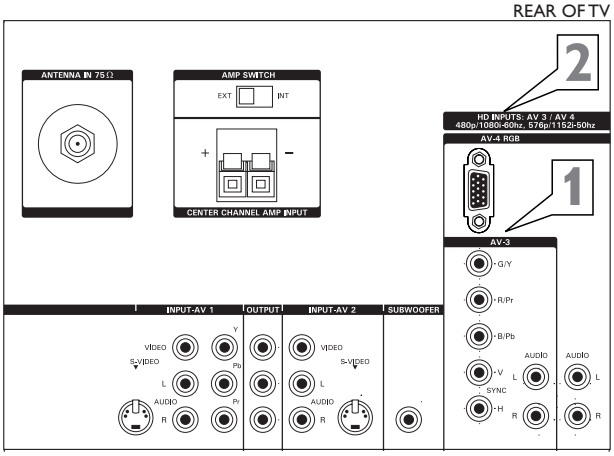
## Overview : High-definition Inputs

**1** **AV3**—use to connect digital equipment with a 1080i/480p (60Hz) or 576p (50Hz) signal output, such as digital set-top boxes or DVD players with progressive-scan capability. You can connect equipment with YPbPr 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 AV4 L(eft) 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 576p (50Hz) signal output, such as digital set-top boxes or DVD players. The AV5 socket accepts a DB15 connector. Note, however, that adaptors can also be used to connect from component video output to this DB15 socket. Use the AV5 L(eft) and R(ight) sockets for sound connections.

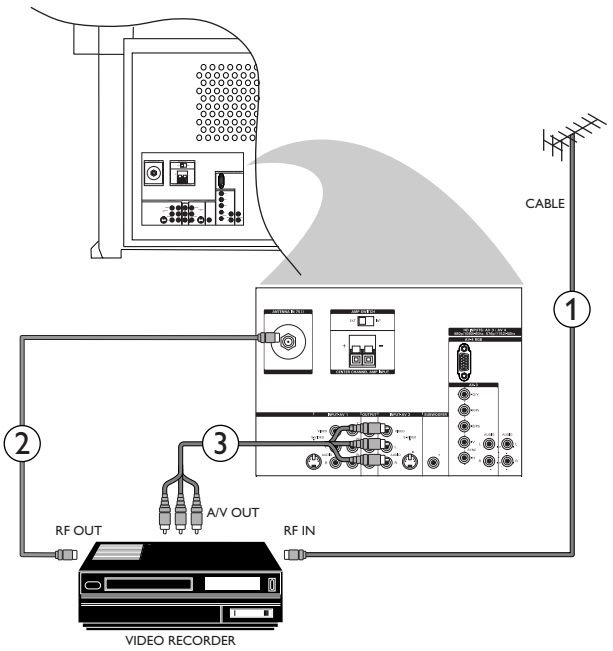
See the handbook for the device you are connecting.




| High-definition Inputs—Video Synchronizing Reference | | |
|---|---|---|
| Input | Video Description | Accepts Video Sync according to : |
| AV4, AV5 | 480p (60Hz) | EIA/CEA-770.2-C |
| | 1080i (60Hz) | EIA/CEA-770.3-C |
| | 576p (50Hz) | ITU-R BT.1358 |

# 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.

## 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.

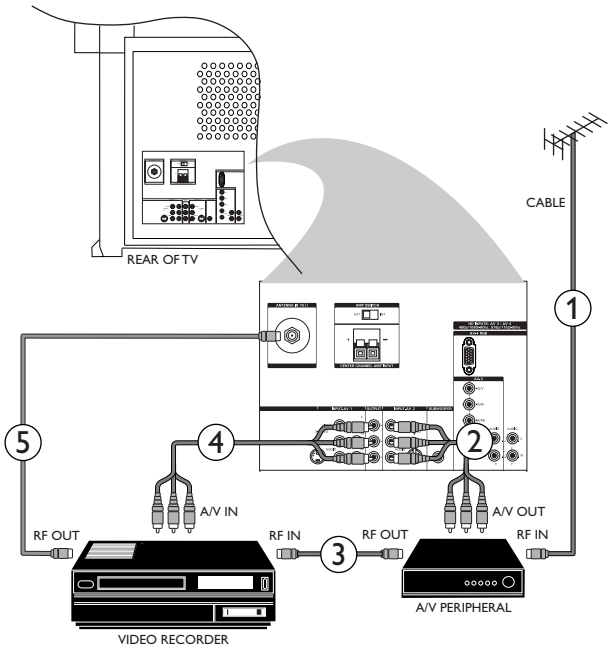
**3** Connect the RF output of the A/V peripheral equipment to the RF input on the video recorder.

**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. See page 32.

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

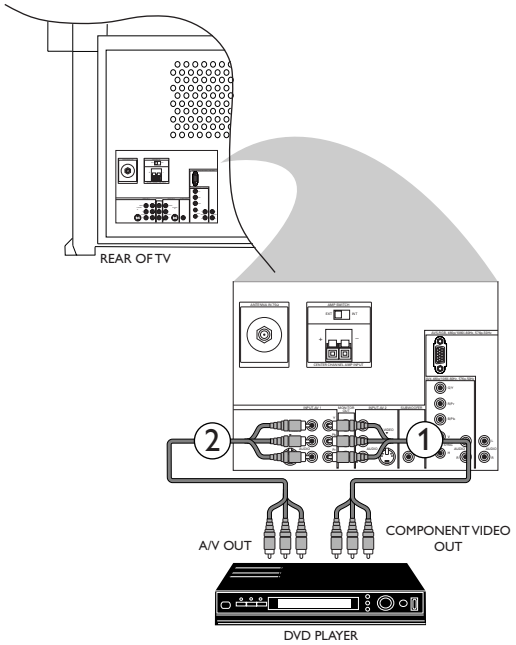
Note : Progressive-scan DVD players can be connected to the AV4 or AV5 inputs only.

**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 YPbPr, 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.

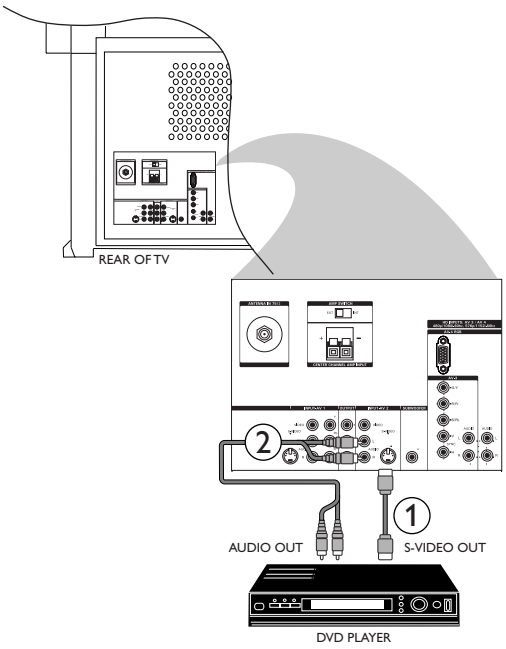


## S-Video Equipment

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.



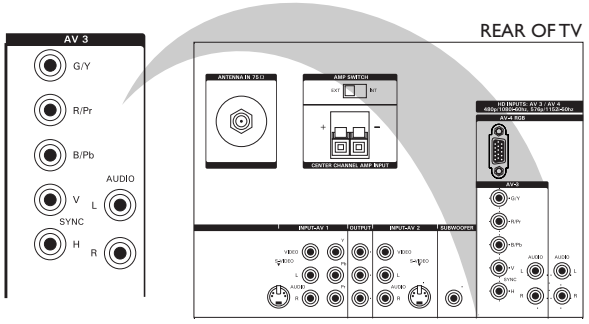

## AV3 and AV4 Digital High-definition Inputs

When you have digital equipment with 1080i or 480p signal output (60Hz) or 576p signal output (50Hz), connect it to the AV4 or AV5 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.

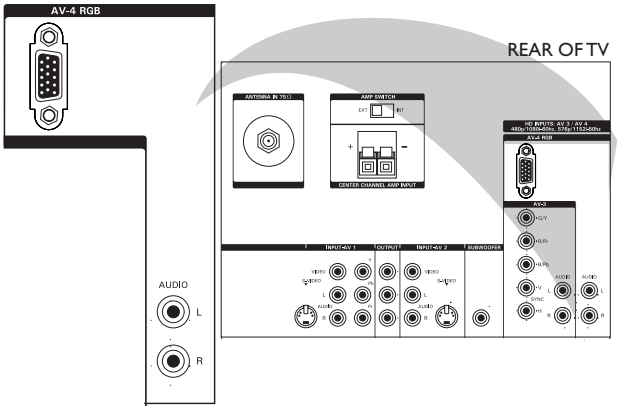
Note : The AV3 sockets are compatible with some digital equipment having RGB outputs with "sync on green" or RGB with "separate H and V sync." Output standards for digital equipment, however, may vary by manufacturer. No industry standards have been established for HD television RGB signal systems, timing, 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.



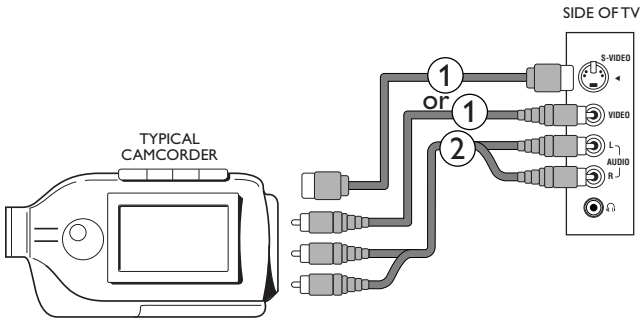

### Notes regarding connecting to either AV3 or AV4 :

- 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

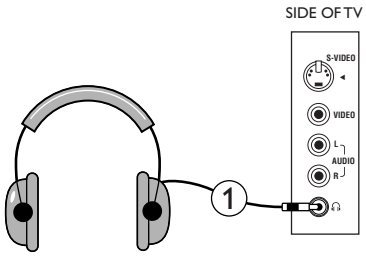
Connect your camera or camcorder to sockets at the side of your TV.




**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.

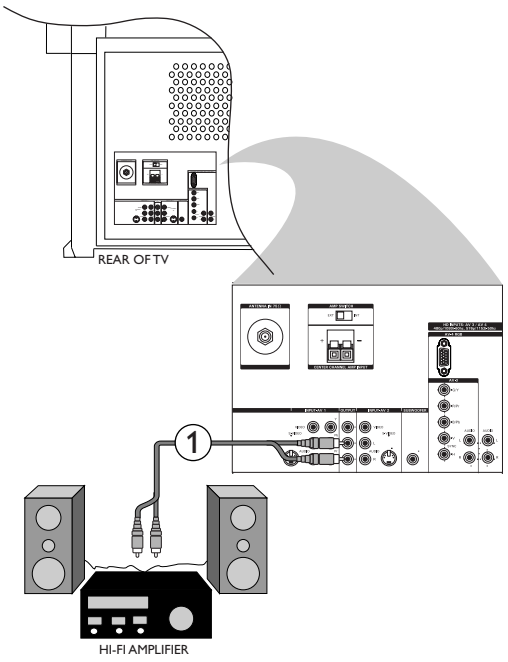
**2** Press 🔇 on the remote control to switch off the internal loudspeakers of the TV.

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.

## 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.

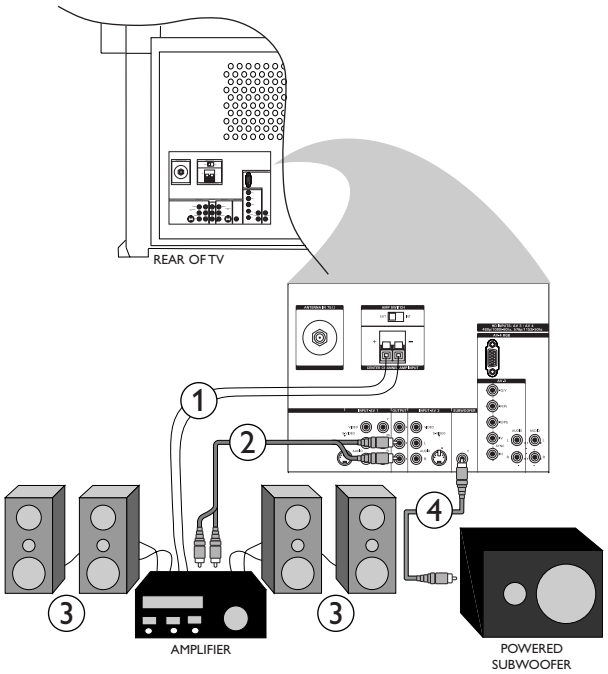
**1** Connect speaker wires from the Center Speakers Output of the surround-sound amplifier to the corresponding (+, –) CENTER CHANNEL AMP INPUT sockets on the TV.

**2** 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.

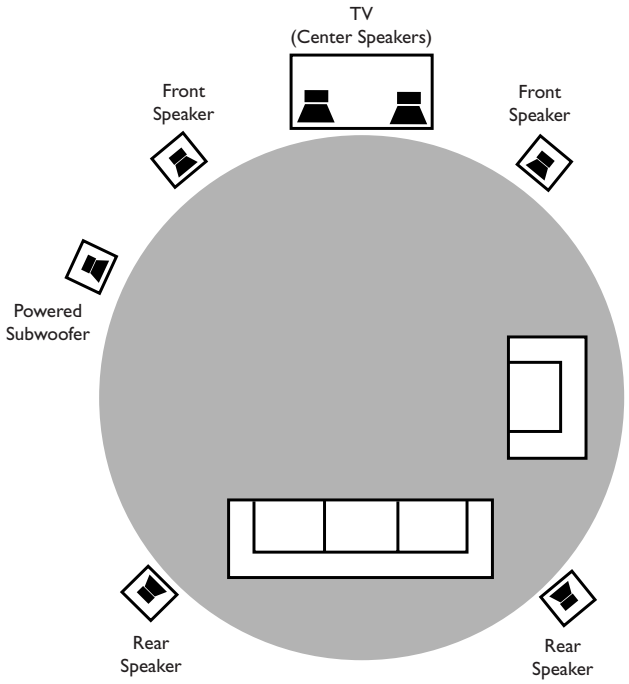
**3** Connect speaker wires from the surround-sound amplifier's front and surround-sound speaker sockets to the front and surround-sound speakers.

**4** Connect an audio cable from the SUBWOOFER output of the TV to the Low Level Input sockets on the powered subwoofer.

**5** 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

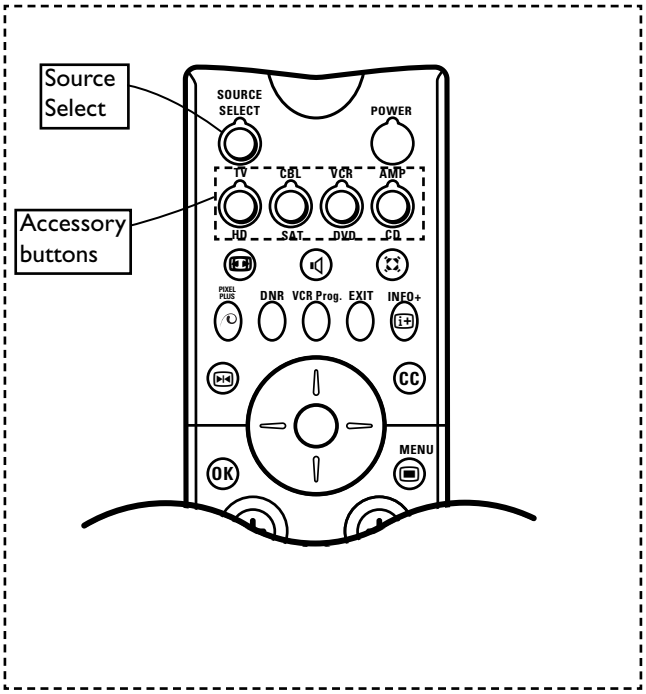
Select the channel number under which you have stored the test signal with the digit keys.

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

1. Press the Source select button 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 TV, CBL, VCR or Amplifier by pressing the button once. A green indicator lights up. When you press the button again for 1 second you can control a HD, SAT, DVD, or CD. A red indicator lights up. To return to TV mode press the TV button.

### 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 leave your set on standby mode for a prolonged period of time. Switch the set off to allow it to be demagnetised. A demagnetised set supports good picture quality.
- 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.<br>• Replace the batteries, if necessary.<br>• Clean the remote control and the remote-sensor window on the TV.<br>• 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.<br>• 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.<br>• See if the outlet is controlled by a wall switch.<br>• 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.<br>• The broadcast station may be experiencing difficulty. Try another channel.<br>• Adjust the contrast and brightness settings or select another picture setting with the Smart Picture key on the remote control.<br>• If using peripheral equipment through the A/V inputs, be sure it is properly connected.<br>• Be sure you have selected the correct signal source for viewing.<br>• If you are attempting to view a picture from a progressive-scan-capable DVD player connected to the AV4 or AV5 sockets, be sure you have switched the DVD player to progressive-scan mode.<br>• 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.<br>• Check that the TV is not muted; press the 🔇 key on the remote control.<br>• When no signal is detected, the TV automatically switches off the sound. This is proper operation and does not indicate a malfunction.<br>• 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.<br>• 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.<br>• Be sure you have made connections correctly.<br>• If you have connected digital equipment to the AV4 or AV5 sockets, check the colour-space setting on the equipment or TV and change the setting on either if necessary.<br>• Check to be sure the TV is not placed too near speakers or magnetic objects.<br>• 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.<br>• 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.<br>• Switch over to "MONO" by pressing the I-II key on the remote control. |

**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

**Product Type**

Rear-projection TV with HD Input

**Picture**

- Picture screen diameter :
  55PP8620 : 140 cm (55 in.)
  46PP8621 : 117 cm (46 in.)
- Visible screen size :
  55PP8620 : 140 cm (55 in.)
  46PP8621 : 117 cm (46 in.)
- 100Hz digital scan*
- Progressive scan*
- Digital comb filter
- Dynamic contrast
- Colour enhancements : green/blue stretch
- Digital colour transient improvement (CTI)
- Digital histogram
- Active Control™
  – Auto Sharpness
  – Auto Dynamic Noise Reduction
- Digital Noise Reduction (DNR)
- Tint control (three modes)

**Sound**

- Dolby** Virtual Surround processing
- Incredible Surround™
- Speakers : 5 cm x 5 cm (2 in. x 2 in.) tweeter
  5 cm x 12.7 cm (2 in. x 5 in.) woofer
- Smart Sound (four modes) : Theatre, Voice, Music, Personal
- Stereo : digital NICAM
- Sound output : 2 x 15 W, 50Hz–10 kHz at 5% THD (flat response) 8-ohm load
- Bass Boost
- Center channel input
- Subwoofer out

**Ease of Use**

- Smart Picture (five modes)
- Smart Sound (four modes)
- Dual-language onscreen display and menu control
- Sleeptimer and Timer
- Childlock
- 100 presets
- Favorite Programme List
- Remote control

**Connectivity**

- Rear : MONITOR OUT—CVBS and audio L/R
  INPUT-AV 1—CVBS, S-Video, and audio L/R
  Component video input (CVI)—YPbPr and audio L/R
  INPUT-AV 2—CVBS, S-Video, and audio L/R
  AV 3—YPbPr (or RGB+HV)
  accepting 480p/1080i-60Hz (EIA/CEA-770.2(&3)-C) and 576p-50Hz (ITU-R BT.1358); and audio L/R
  AV 4—RGB (or YPbPr with adapter)
  accepting 480p/1080i-60Hz (EIA/CEA-770.2(&3)-C) and 576p-50Hz (ITU-R BT.1358); and audio L/R
  ANTENNA IN 75Ω—coaxial
  CENTER CHANNEL AMP INPUT and AMP SWITCH
  SUBWOOFER output
- Side : CVBS, S-Video, and Audio L/R; stereo head phone out (3.5 mm socket)

**Reception**

- Tuning system : PLL
- Colour transmission system (off-air) :
  PAL B/G/I/D/K, SECAM B/G/D/K, NTSC M
- A/V connections : NTSC 3.58/4.43, PAL60
- Stereo sound transmissions systems (off-air) :
  NICAM B/G/I/D/K, 2CS B/G/D/K
- Channel selections : VHF, UHF, S-channels, hyperband

**Miscellaneous**

- Ambient temperature : +5/+45°C
- Mains : refer to the specification at the rear of the set
- Power consumption : refer to the specification at the rear of the set

These technical specifications are subject to change without notice.

*The options of Auto, Progressive, Digital Scan, or 100Hz can be selected in the TV's onscreen Picture menu through the Digital Options item.

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# International Guarantee Conditions

This product is guaranteed by Philips for a period of one year after the date of purchase against defects due to faulty workmanship or materials. The guarantee covers both parts and labour.

Service under guarantee is only provided upon presentation of reasonable evidence (e.g., completed guarantee card or purchase receipts) that the date of the claim is within the guarantee period.

The guarantee is not valid if the defect is due to accidental damage (including in transport), misuse or neglect and in case of alterations or repair carried out by unauthorised persons.

The guarantee may not apply if the product requires modifications or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorised or if any damage results from these modifications.

Service (during and after guarantee) is available in all countries where this product is officially distributed by Philips. In countries where Philips does not distribute the product, the local Philips Service organisation will also provide service, although there may be a delay if the appropriate spare parts and technical manual are not readily available.
These statements do not affect your statutory rights as a consumer.

In the event of difficulty, please contact the Philips Information Centre in any country (see enclosed addresses).

### Condiciones de Garantias Internationales

Philips garantiza este producto durante 1 año, a partir de la fecha de adquisición, contra defectos debidos a una imperfecta fabricación o malos materiales. Esta garantía cubre tanto las piezas de recambio como la mano de obra.

Las reparaciónes que pudieran producírse durante el período de vigencia de la presente garantía se efectuarán solo si presenta una razonable evidencia (por ejemplo, mediante la presente garantía, debidamente cumplimentada, o la factura de compra), de que la fecha de la queja está dentro del período de garantía.

Esta garantía no tendrá validez si el defecto es debido a un deterioro accidental; un uso inadecuado o un mal trato y en el caso de modificaciónes o reparaciónes efectuadas por personal no autorizado.

El servicio (durante y despues de la garantía) está disponible en todos los países donde el producto es ofícialmente distribuido por Philips.

En países donde Philips no distribuya el producto, la organización local de Servicio Philips dará también el servicio necesario, aunque puede producirse una demora si los adecuados recambios no están fácilmente disponibles.

En todo caso, el titular de la garantía tiene todos los derechos mínimos reconocidos por la Ley. En el caso de cualquier dificultad, por favor dirijase al : Centro de Information al Consumidor (vease lista adjunta).

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Philips Infocenter
Consumer Electronics
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