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Latvia	52737691	local
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Nederland	0800 0230076	Gratis nummer
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Україна	8-800-500-69-70	Місцевий виклик

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English

# 1 Notice

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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

#### Warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Support for service or repairs.



 Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorised in this manual shall void the warranty.

#### **Pixel** characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

#### Open source software

This television contains open source software. Philips hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code on a medium customarily used for software interchange. This offer is valid for a period of 3 years after the date of purchase of this product. To obtain the source code, write to:

Development Manager Technology & Development Philips Consumer Lifestyle 620A Lorong 1, Toa Payoh TP1, Level 3 Singapore 319762

#### Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.

Philips is committed to develop, produce and market products that cause no

adverse health effects. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

#### Mains fuse (UK only)

This TV is fitted with an approved moulded plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug (example 10A).

- 1 Remove fuse cover and fuse.
- 2 The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your dealer in order to verify the correct type.
- **3** Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be detached from the mains cord cable.

#### Copyright



VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

® Kensington and Micro Saver are registered US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world.



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All other registered and unregistered trademarks are the property of their respective owners.

### BBE.

Manufactured under licence from BBE Sound, Inc. Licensed by BBE, Inc under one or more of the following US patents: 5510752,5736897. BBE and BBE symbol are registered trademarks of BBE Sound Inc.

# 2 Important

Read and understand all instructions before you use your TV. If damage is caused by failure to follow instructions, the warranty does not apply.

#### Safety

#### Risk of electric shock or fire!

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
- Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.

#### Risk of short circuit or fire!

- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.

#### Risk of injury or damage to the TV!

• Two people are required to lift and carry a TV that weighs more than 25 kg.

- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.

#### Risk of injury to children!

Follow these precautions to prevent the TV from toppling over and causing injury to children:

- Never place the TV on a surface covered by a cloth or other material that can be pulled away.
- Ensure that no part of the TV hangs over the edge of the surface.
- Never place the TV on tall furniture (such as a bookcase) without anchoring both the furniture and TV to the wall or a suitable support.
- Educate children about the dangers of climbing on furniture to reach the TV.

#### Risk of overheating!

Never install the TV in a confined space. Always leave a space of at least 4 inches or 10 cm around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

#### Risk of damage to the TV!

Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

#### Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.

- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

#### Risk of hearing damage!

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

#### Low temperatures

If the TV is transported in temperatures below 5°C, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power outlet.

#### Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.

### Disposal of your old product and batteries



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



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

Please act according to your local rules and do not dispose of your old products with your normal household waste.

Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.



Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.

Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

#### ECO-Green



- High energy efficiency
- Low standby power

• Designed to facilitate recycling Philips continuously focuses on lowering the environmental impact of its innovative consumer products. We aim our efforts towards environmental improvements during manufacturing, reduction of harmful substances, energy-efficient use, end-of-life instructions and product recycling. Thanks to our environmental effort, this TV has been awarded the European Ecolabel –the flower– www.ecolabel.eu You can find detailed information on standby

rou can find detailed information on standby energy consumption, warranty policy, spare parts and recycling of this TV on the Philips website for your country at www.philips.com. This TV has features that contribute to energy-efficient use. This TV was awarded the European Ecolabel for its environmental qualities.

#### Energy efficiency features

#### Ambient light sensor

To save energy, the built-in Ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.

#### • Energy saving

The **[Standard]** setting of the TV combines several TV settings that result in saving energy. See the **[Smart settings]** in the **[Setup]** menu.

• Low standby power consumption The class-leading and highly advanced power circuitry brings down the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.

#### Power management

The advanced power management of this TV ensures the most efficient use of its energy. You can check how your personal TV settings, the level of brightness in current onscreen pictures and the surrounding light conditions determine the relative power consumption. Press **DEMO**, then select **[Active Control]** and press **OK**. Your current TV setting is highlighted. You can select another setting to check the corresponding values.

#### End of use

To inform yourself on the correct disposal of the TV and batteries, refer to 'Disposal of your old product and batteries' in the user manual (see 'Disposal of your old product and batteries' on page 5).

### 3 Your product

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers; register your product at www.philips.com/welcome.

#### **Product overview**

This section gives you an overview of commonly used controls and functions.

# Side controls and indicators (+)

- ① O POWER: Switches the product on or off. The product is not powered off completely unless it is physically unplugged.
- P/CH +/-: Switches to the next or previous channel.
- ③ ⊕ SOURCE: Selects connected devices.
- (4) VOLUME +/-: Increases or decreases volume.
- 5 LightGuide: Front LED indicator

#### Remote control



(1 (Standby-On)

- Switches the product to standby if it is on.
- Switches the product on if it is on standby.

2	Universal control buttons (DVD/STB/ HTS)	(19) (
	*Controls other devices such as a DVD player, set-top box or a home theatre system from Philips or other brands	20 -
3	Colour buttons Selects tasks or options.	(21) A *
4	✿ (Home) Toggles the home menu on or off.	
5	© OPTIONS Accesses options relating to the current activity or selection.	(23) N (24) -
6	<b>OK</b> Confirms an entry or selection.	ا 25 •
7	▲▼ <b>◀▶(Navigation buttons)</b> Navigates through the menus.	F 26 0
8	INFO Displays programme information, if available.	/ F 27 [
9	<b>∢∢ (Backward)</b> **Searches backward.	
10	<ul> <li>(Forward)</li> <li>**Searches forward.</li> </ul>	(28) [ *
(11)	►II (Play/Pause) **Starts, pauses or resumes playback.	(29)
(12)	● (Record) **Starts or stops video recording.	*This only.
(13)	■(Stop) **Stops playback.	**Co device
(14)	<b>☞ (Mute)</b> Mutes or restores audio output.	
(15)	<b>P +/- (Program +/-)</b> Switches to the next or previous channel.	
(16)	E FORMAT Selects a picture format.	
(17)	<b>DISC MENU</b> Accesses or exits the disc menu.	
(18)	<b>TELETEXT</b> Toggles teletext on or off.	

- )-9 (Numeric buttons) Selects a channel or setting.
- **€**SOURCE elects connected devices.
- AMBILIGHT Switches Ambilight on or off.
- UBTITLE Enables or disables subtitles.
- NET TV Accesses Net TV.
- ⊿ +/- (Volume +/-) ncreases or decreases volume.
  - Returns to the previous menu.
  - Accesses or exits the Electronic Programme Guide (EPG).
- DEMO

Toggles the demonstration menu on or off.

n

Accesses the electronic user manual.

ΓV

witches back to the aerial source.

feature is availabe in selected models

ntrols the connected EasyLink-compliant e.

### 4 Use your product

This section helps you perform basic operations (see 'Use more of your product' on page 14).

# Switch your TV on/off or to standby





#### To switch on

- If the front LED indicator is off, press ⊕ **POWER** at the side of the TV.
- If the front LED indicator is red, press の (Standby-On) on the remote control.

#### To switch to standby

- Press © (Standby-On) on the remote control.
  - → The front LED indicator switches to red.

#### To switch off

- Press **OPOWER** at the side of the TV.
  - → The front LED indicator switches off.

#### ⊁ Тір

 Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.



 If you cannot locate your remote control and want to switch on the TV from standby, press P/CH +/- on the side of the TV.

#### Switch channels





- Press P +/- on the remote control or P/CH +/- on the side of the TV.
- Enter a channel number using the **Numeric buttons**.
- Use the channel grid (see 'Switch channels with the channel grid' on page 10).



• When you use a favourite list, you can only select those channels in the list.

#### Switch channels with the channel grid

The channel grid allows you to view all available channels in a grid format.



#### Press OK.

→ The channel grid appears.



- 2 Press the Navigation buttons to select a channel.
- 3 Press OK to confirm your choice.→ The selected channel appears.

#### Adjust TV volume





#### To increase or decrease volume

- Press ⊿ +/-.
- Press VOLUME +/- on the side of the TV.

#### To mute or unmute sound

- Press I to mute the sound.
- Press 承 again to restore the sound.

#### Note

• Use the **[Sound]** menu to adjust headphone volume (see 'Adjust sound settings' on page 19).

#### Watch connected devices

#### Note

• For easy access, add new devices to the home menu before selecting them.

#### Add a device to the home menu

Connect and switch on devices before adding them to the home menu.





2 Press the Navigation buttons to select [Add new device].

#### 3 Press OK.

→ A message appears with [Start] selected, prompting you to start the add new device guide.

#### 4 Press OK.

 $\mapsto$  Follow the on-screen instructions to select the type of device and where it is connected. When the guide is complete, a new device icon is added to the home menu.

#### Tip

 To avoid screen clutter, remove devices from the home menu when they are no longer connected (see 'Remove devices from the home menu' on page 15).

#### Select a device via the home menu



- 1 Press (Home). → The home menu appears.
- Press the Navigation buttons to select a device

3 Press **OK** to confirm your choice. → The TV switches to the selected device.



- 1 Press - SOURCE
  - → The source list appears.
- 2 Press the Navigation buttons to select a device.
- 3 Press **OK** to confirm your choice.
  - $\rightarrow$  The TV switches to the selected device.

#### Browse Net TV (selected models only)

With the TV connected to the Internet, you can use Net TV to access videos, pictures, music, information, games and other online services.

#### Note

• Koninklijke Philips Electronics N.V. bears no responsibility for content provided by Net TV service providers.

#### Access Net TV



#### Note

• Connect the TV to a computer network before accessing Net .

#### 1 Press NET TV

 $\rightarrow$  The Net TV home page appears.

#### Navigate Net TV

Press:

- Navigation buttons to navigate Net TV or web pages
- OK to view or select an item
- **DACK** to go back to a previous page

#### Mark favourite Net TV pages

You can mark Net TV pages or services as favourites for easy access.

- 1 In Net TV, press the Navigation buttons to select [Mark as favourite].
- Press ок.
- **3** Press the Navigation buttons to navigate to the page to mark, then press OK.
- 4 When done, press the Navigation buttons to select [Done] then press OK.

#### Clear browsing history

Clear browsing history to remove passwords, cookies and browsing data from your TV.

→ The home menu appears.

2 Press the Navigation buttons to select [Setup].

→ The [Setup] menu appears.

- 3 Press the Navigation buttons to select [Installation] > [Clear Net TV memory].
  - → Passwords, cookies and other browsing history are removed from the TV.

#### Use teletext



#### **1** Press **TELETEXT**.

→ The teletext screen appears.

- 2 Select a page by:
  - Entering the page number with the **Numeric buttons**.
  - Pressing P +/- or the Navigation buttons to view the next or previous page.
  - Pressing the **Colour buttons** to select a colour coded item.
  - Pressing SACK to return to a previously viewed page.
- **3** Press **TELETEXT** to exit teletext.

# Use Ambilight (selected models only)



#### 1 Press AMBILIGHT.

→ Ambilight switches on.

2 Press AMBILIGHT again to switch off Ambilight.

#### **\*** Ti

• Use Ambilight as a lounge light by pressing AMBILIGHT when the TV is in standby. Press OK to change colours.

#### Set Ambilight active mode

Ambilight active mode allows you to set the speed at which Ambilight responds to on-screen images.

- 1 Press and hold **AMBILIGHT** for at least three seconds.
  - ➡ The [Ambilight active mode] bar appears.
- 2 Press the Navigation buttons to move the slider towards [Relaxed] for smoother Ambilight responsiveness; or towards [Dynamic] for faster responsiveness
- **3** Press → BACK to exit.



• You can only change the Ambilight active mode setting if Ambilight [Colour] is set to [Active mode]. More information about this and other advanced Ambilight features are .

### 5 Use more of your product

#### Change language settings

#### - Note

• Skip this step if your language settings are correct.

- 2 Press the Navigation buttons to select
  [Setup].
  → The [Setup] menu appears.
- 3 Press the Navigation buttons to select [Installation] > [Languages] > [Menu language].

→ A list of languages appears.

- 4 Press the Navigation buttons to select a menu language.
- 5 Press OK to confirm your choice.
   → The selected language is applied to the menu

In addition to **[Menu language]**, you can configure the following language settings via the **[Languages]** menu (digital channels only):

Languages	Menu language	Ceština
Channel installation	Primary audio	Dansk
Preferences	Secondary audio	Deutsch
Decoder	Primary subtitles	Ελληνικκά
Clock	Secondary subtitles	English
Factory reset	Primary teletext	Español
and the second	Secondary teletext	Français
	Hearing impaired	Hrvatski

- [Primary audio]/[Secondary audio] Select primary and secondary audio languages for digital channels.
- [Primary subtitles]/[Secondary subtitles] Select primary and secondary subtitle languages for digital channels.
- [Primary teletext]/[Secondary teletext] Select primary and secondary teletext languages for digital channels.
- [Hearing impaired] Select [On] to display subtitles with primary and secondary audio languages.
- [Visually impaired] If available, select to hear additional audio commentary for the visually impaired through the options: [Speakers], [Headphones] or [Speakers + headphones]. Select [Off] to disable the feature.
- [Preferred audio format] Select [Advanced] for best sound reproduction from home theatre systems. Select [Standard] for best sound reproduction from the TV speakers and basic sound systems.

#### Access the home menu

The home menu gives you easy access to connected devices, picture and sound settings as well as other useful features.

- - ightarrow The home menu appears.



- 2 Press the Navigation buttons to select a home menu item:
  - [Watch TV]Switches back to the aerial source if another source is selected.
  - [Setup]Accesses menus that allow you to change picture, sound and other TV settings.
  - [Add new device]Adds new devices to the home menu.
  - [Browse USB] If a USB storage device is connected, accesses the content browser.
  - [Browse PC network] If a PC network is available, accesses the content browser.
  - [Browse Net TV] Accesses Net TV.
- **3** Press **OK** to confirm your choice.

#### 🔆 Тір

- Press 🖨 (Home) at any time to exit the home menu.
- Press SACK at any time to exit the [Setup] menu.
- Press © OPTIONS at any time to exit an options menu.

#### Remove devices from the home menu

If a device is no longer connected to the TV, remove it from the home menu.

- 1 Press 🕇 (Home).
  - $\mapsto$  The home menu appears.
- 2 Press the Navigation buttons to select a device to remove.
- **3** Press **OPTIONS**.
  - → A list appears, with [Remove this device] selected.
- 4 Press OK.
  - → A message appears, prompting you to remove the device.
- 5 Press OK.
  - → The home menu appears, with the device removed.

#### Access the options menu

The options menu gives you quick access to the picture and sound experience bar and other useful features such as **[Status]**. The **[Status]** menu gives you an overview of current TV information.



- 2 Press the Navigation buttons to select an option.
- 3 Press OK.
  - → The menu of the selected option appears.

#### Access the setup menu

The **[Setup]** menu gives you access to picture, sound and other TV settings.

- - → The home menu appears.
- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The [Setup] menu appears.

# Change picture and sound settings

Change picture and sound settings to suit your preferences. You can apply pre-defined settings or change settings manually.



- Note
- The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings (see 'Change TV preferences' on page 33).

#### Use smart settings

Use smart settings to apply pre-defined picture and sound settings.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Smart settings].
- 5 Press OK.
  - $\mapsto$  A list of smart settings appears.



- 6 Press the Navigation buttons to select:
  - [Personal]Sets the TV to your personal preferences set in the [Picture] and [Sound] menus in [Setup].

- [Vivid]Rich and dynamic settings, ideal for daylight use.
- [Natural]A natural picture setting.
- [Cinema]Ideal settings for watching movies.
- [Game]Ideal settings for gaming.
- [Standard]The most energy conscious settings. Factory standard settings.
- 7 Press OK to confirm your choice.→ The smart setting is applied.
- 8 Press → BACK to exit or press (Home) to go back to the home menu.

#### - Note

• [Smart settings] is also accessible via the [Picture and sound] experience bar (see 'Use the picture and sound experience bar' on page 17).

#### Use settings assistant

Use the settings assistant to guide you through the best picture and sound settings.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]** menu appears.
- 4 Press the Navigation buttons to select [Picture] > [Settings assistant].
- 5 Press OK.
  - → A message appears prompting you to start the settings assistant.
- 6 Press the Navigation buttons to select [Start].
- 7 Press OK.
  - ➡ Follow the on-screen instructions to choose your preferred picture and sound settings.

### Use the picture and sound experience bar

Use the **[Picture and sound]** experience bar to access frequently used picture and sound settings.



- All picture settings are available via the **[Picture]**menu (see 'Manually adjust picture settings' on page 17).
- All sound settings are available via the [Sound]menu (see 'Adjust sound settings' on page 19).
- 2 Press the Navigation buttons to select [Picture and sound].
  - → The [Picture and sound] experience bar appears.



- **3** Press the **Navigation buttons** to select a picture or sound setting to adjust.
- 4 Press OK.
  - → The picture or sound setting menu appears.
- 5 Press the Navigation buttons to adjust the picture or sound setting.
- 6 Press OK to confirm your choice.
  - → The picture or sound setting is applied and the [Picture and sound] experience bar reappears.
- 7 Press → BACK to exit.

The following settings can be configured via the **[Picture and sound]** experience bar.

- [Smart settings]Applies pre-defined picture and sound settings.
- [Colour]Adjusts colour saturation.
- [Contrast]Adjusts the intensity of bright areas, keeping dark areas unchanged.
- [Bass]Adjusts the bass level.
- [Treble]Adjusts the treble level.
- **[TV speakers]**Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLinkcompliant home theater system is detected.
- [Ambilight active mode]Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight [Colour] is set to [Active mode].
- [Ambilight]Turns Ambilight on or off.
- [Ambilight brightness]Changes the light output from Ambilight.

#### - Note

• [Bass] and [Treble] are not available if [TV speakers] are set to [Off].

#### Manually adjust picture settings

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]**menu appears.
- 4 Press the Navigation buttons to select [Picture] menu appears.
- 5 Press OK.
  - → The **[Picture]** menu appears.



6 Press the Navigation buttons and OK to select and adjust a picture setting.

7 Press 🕁 BACK to exit.

The following picture settings can be configured. Depending on the format of the picture source, some picture settings are not available.

- [Settings assistant]Use settings assistant to guide you through the best picture and sound settings.
- [Contrast]Adjusts the intensity of bright areas, keeping dark areas unchanged.
- [Brightness]Adjusts the intensity and details of dark areas.
- [Colour]Adjusts colour saturation.
- **[Hue]**Compensates colour variations in NTSC encoded transmissions.
- [Sharpness]Adjusts the level of sharpness in image details.
- **[Noise reduction]**Filters and reduces noise in an image.
- [Tint]Adjusts the colour balance in an image.



- Before you adjust [Custom tint], select [Tint]
   [Custom], then press OK to enable the option.
- [Custom tint]Make a customised tint setting.
- [Pixel Plus HD]/[Pixel Precise HD]Gives access to advanced picture settings:

- [Perfect Natural Motion]Reduces field and line flicker to display movement smoothly.
- [100Hz Clear LCD]Sets the TV refresh rate to a maximum of 100Hz to provide superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
- [Advanced sharpness]Enables superior sharpness, especially on lines and contours in the picture.
- **[Dynamic contrast]**Automatically enhances contrast in an image.
- [Dynamic backlight]Adjusts the brightness of the TV backlight to match lighting conditions.
- [MPEG artefact reduction]Smoothes out transitions on digital pictures. You can switch this feature on or off.
- **[Colour enhancement]**Makes colours more vivid and improves the resolution of details in bright colours. You can switch this feature on or off.
- [PC mode]Enables picture settings adjustment when a PC is connected to the TV via HDMI. If enabled, you can select [Picture format] > [Unscaled] which provides maximum detail for display of PC content.
- [Light sensor]Dynamically adjusts picture settings to match lighting conditions.
- [Picture format]Changes the picture format.
- [Auto format mode]Sets the picture format to automatically fill or automatically zoom into the screen.

#### 🔆 Tip

- If [Auto format mode] is disabled, select [Picture format] > [Auto format] to enable the option.
- [Picture shift]Adjusts the position of the picture.



• [Colour] and [Contrast] settings are also accessible via the [Picture and sound] experience bar (see 'Use the picture and sound experience bar' on page 17).

#### Change picture format

#### Press ⊡ FORMAT.

→ A list of picture formats appears.



- 2 Press the Navigation buttons to select a picture format.
- **3** Press **OK** to confirm your choice.
  - → The selected picture format is activated.

#### 🔆 Тір

• Picture formats are also accessible via the **[Setup]**menu (see 'Access the setup menu' on page 15).

#### The following picture formats can be selected.

#### - Note

- Depending on the picture source, some picture formats are not available and will not be seen on-screen.
- Before you adjust [Unscaled], select [Picture]
   [PC mode] > [On], then press OK to enable the option.



[Auto format] Enlarges the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion (but not for HD or PC). [Super zoom] Removes the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC. [Movie expand 16:9]







#### Adjust sound settings

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]**menu appears.
- 4 Press the Navigation buttons to select [Sound] menu appears.
- 5 Press OK.
  - → The [Sound] menu appears.

Smart settings	Bass	_
Picture	Treble	Ξ
Sound	Volume	-
Features	Volume - Visually impair	
Installation	Audio language	RBS
Software update	Dual I/II	
	Mono/Stereo	Bass
	TV speakers	Dass

6 Press the Navigation buttons and OK to select and adjust a sound setting.

7 Press 🕁 BACK to exit.

The following sound settings can be configured. Depending on the broadcast, some sound settings may not be available.

- [Bass]Adjusts the bass level.
- [Treble]Adjusts the treble level.
- [Volume]Adjusts the volume.

#### - Note

- Before you adjust [Volume Visually impaired], enable [Visually impaired]. When watching TV, press OPTIONS and select [Visually impaired]. Select a preferred option and press OK.
- [Volume Visually impaired]Sets the mix of visually impaired audio with regular audio. When available, visually impaired audio includes audio descriptions of onscreen action. You can also enable this by pressing AD (Audio Descriptor).
- [Audio language](Digital channels only) Selects between audio languages when multiple languages are broadcast.
- [Dual I-II](Analogue channels only) Selects between audio languages when dual sound is broadcast.
- [Mono/Stereo]Selects between mono or stereo if stereo is broadcast.
- **[TV speakers]**Turns on or off TV speakers. If **[Automatic (EasyLink)]** is selected, the TV speakers are switched off when content from an EasyLink-

compliant home theater system is detected.

- [Surround]Enables spatial sound.
- [Headphones volume]Adjusts headphone volume.
- [Delta volume]Levels out volume differences between channels or connected devices. Switch to the connected device before you change the delta volume.
- **[Balance]**Adjusts the balance of the right and left speakers to best suit your listening position.
- [Auto volume leveling] Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.

#### - Note

• [Bass], [Treble] and [TV speakers] settings are also accessible via the [Picture and sound] experience bar (see 'Use the picture and sound experience bar' on page 17). When supported, [Audio language] and [Volume -Visually impaired] are directly accessible from the options menu.

# Change Ambilight settings (selected models only)

You can adjust Ambilight colour, brightness and mode to your taste.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]** menu appears.
- 4 Press the Navigation buttons to select [Ambilight].
- 5 Press OK.
  - → The [Ambilight] menu appears.

- 6 Press Navigation buttons and OK to select and adjust an Ambilight setting.
- 7 Press → BACK to exit.

The following Ambilight settings can be configured:

- [Ambilight]Turns Ambilight on or off.
- [Ambilight active mode]Sets an Ambilight setting between relaxed and dynamic levels. This feature is only available when Ambilight [Colour] is set to [Active mode].
- [Brightness]Changes the light output from Ambilight.
- **[Colour]**Selects a predefined colour setting or a customised colour setting.
- **[Custom colour]**Allows fine tuning of predefined colours.
- [Separation]Sets the difference in Ambilight color level between the sides of the TV. Setting this feature off gives a dynamic, uniform Ambilight color.

# Use advanced teletext features

#### Access the teletext options menu

Most of the advanced teletext features are accessed via the teletext options menu.

- 1 Press TELETEXT.
  - $\mapsto$  The teletext screen appears.

#### 2 Press COPTIONS.

→ The teletext options menu appears.



- **3** Press the Navigation buttons to select an option:
  - [Freeze page]Freezes the current page.
  - [Dual screen]/[Full screen]Enables and disables dual screen teletext, which splits the current channel or source to the left of the screen, with teletext on the right.
  - [Reveal]Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
  - [Cycle subpages]Cycles through subpages automatically if subpages are available.
  - [Language]Switches to a different language group to display a language correctly when that language uses a different character set.
- 4 Press OK to confirm your choice.
  - $\mapsto$  The teletext screen appears.

#### 🔆 Тір

• Press DOPTIONS at any time to exit the options menu.

#### Select teletext subpages

A teletext page can hold several subpages. Subpages are displayed on a bar next to the main page number.

#### Note

• Enable cycling of subpages before selecting subpages (see 'Access the teletext options menu' on page 21).

#### **1** Press **TELETEXT**.

- $\mapsto$  The teletext screen appears.
- 2 Select a teletext page.
- 3 Press ◄ or ► to select a subpage.
  → The subpage appears.

#### Select T.O.P. teletext broadcasts

Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers. T.O.P. teletext is not broadcast on all TV channels.

- Press TELETEXT.→ The teletext screen appears.
- 2 Press INFO.
  - → The T.O.P. overview appears.
- **3** Press the Navigation buttons to select a subject.
- 4 Press OK to confirm your choice.→ The teletext page appears.

#### Search teletext

Search a teletext page by subject or word.

- 1 Press TELETEXT.
  - → The teletext screen appears.
- 2 Press OK to highlight the first word or number.
- **3** Press the **Navigation buttons** to skip to the word or number to search.
- 4 Press OK to begin the search.

5 Press ▲ until no word or number is highlighted to exit the search.

#### Enlarge teletext pages

For more comfortable reading, you can enlarge the teletext page.

- Press TELETEXT.
   → The teletext screen appears.
- 2 Press 🖼 FORMAT.
  - $\mapsto$  The teletext screen is enlarged.
- 3 Press:
  - the Navigation buttons to move around the enlarged screen.
  - EP FORMAT to return to normal screen size.

#### Use Teletext 2.5

Teletext 2.5 offers more colours and better graphics than normal teletext. If Teletext 2.5 is broadcast by a channel, it is switched on by default.

- 2 Press the Navigation buttons to select [Setup].
- **3** Press OK.

→ The **[Setup]** menu appears.

- 4 Press the Navigation buttons to select [Installation] > [Preferences] > [Teletext 2.5] > [On] or [Off].
  - → Teletext 2.5 is enabled or disabled.
- 5 Press → BACK to exit or press (Home) to go back to the home menu.

# English

#### Create and use lists of favourite channels

You can create lists of your preferred TV channels so that you can find those channels easily.



#### Note

Digital radio stations can also be added to favourite lists, if supported.

View only channels in a favourite list, or view all channels if a favourite list is currently selected.

1 When watching TV, press **OK**. → The channel grid appears.

2 Press COPTIONS.

→ The options menu appears.



- 3 Press the Navigation buttons to select [Select list].
- 4 Press OK.
  - → The [Select list] menu appears.
- 5 Press the Navigation buttons to select:
  - [All]Displays all channels.
  - [Favourites] Displays channels in a selected favourite list.
  - [Radio] Displays radio channels only.
  - [Digital] Displays digital channels only.
  - [Analogue] Displays analogue channels only.
- 6 Press **OK** to confirm your choice.
  - → The selected list is applied to the channel grid.

#### Add or remove channels from a favourite list

#### Tid

- Select [All] channels before adding a channel to a favourite list.
- 1 When watching TV, switch to the channel you want to add or remove from a favourite list.

Alternatively, press **OK** to enter the channel grid and press the Navigation **buttons** to select the channel to add or remove.

2 Press COPTIONS.

 $\mapsto$  The options menu appears.

- 3 Press the Navigation buttons to select [Mark as favourite] or [Unmark as favourite].
  - → A star appears in the channel grid, indicating that the channel is added to the favourite list. The star disappears if you chose to remove the channel from the favourite list.

#### Reorder/rearrange and rename channels

#### Reorder/rearrange channels

Reorder/rearrange channels in the grid to your desired location

- 1 When watching TV, press OK.  $\mapsto$  The channel grid appears.
- 2 Press DOPTIONS.
  - → The options menu appears.
- 3 Press the Navigation buttons to select [Reorder], then press OK.
  - → An on-screen message appears. To continue, go to step 4.
  - To cancel and exit. press **OPTIONS** and follow the on-screen instructions.

- 4 Press the Navigation buttons to select the channel to reorder in the grid.
  - → A box appears around the selected channel.



- 5 Press the Navigation buttons to move the channel to the desired location in the grid.
- 6 Press OK to confirm your choice.
  → The channel is moved to the selected location.
- 7 Press 🗢 BACK to exit the channel grid.

#### Rename channels

Rename channels in the grid to suit your needs.

- When watching TV, press OK.
   → The channel grid appears.
- 2 Press the Navigation buttons to select a channel to rename.
- Press OPTIONS.
   → The options menu appears.
- 4 Press the Navigation buttons to select [Rename].
  - → An entry screen appears.
- 5 Press the Navigation buttons or Numeric buttons to edit the name, then press OK.

- 6 Once complete, press the Navigation buttons to select [Done].
  - To clear the name entered, select [Clear].
  - To cancel, select [Cancel].
- 7 Press OK to confirm your choice.
- 8 Press → BACK to exit the channel grid.

#### Hide and unhide channels

#### Hide channels

Hide channels from the grid, to prevent unauthorised access.

- When watching TV, press OK.
   → The channel grid appears.
- 2 Press the Navigation buttons to select a channel to hide.
- **3** Press **© OPTIONS**.

 $\mapsto$  The options menu appears.

- 4 Press the Navigation buttons to select [Hide channel].
- 5 Press OK to confirm your choice.→ The channel is hidden.
- 6 Press **D** BACK to exit the channel grid.

#### Unhide channels

Display hidden channels.

- 1 When watching TV, press OK.
  - ightarrow The channel grid appears.
- 2 Press COPTIONS.
  - $\hookrightarrow$  The options menu appears.
- **3** Press the Navigation buttons to select [Show hidden channels].

#### 4 Press OK.

Hidden channels appear in the channel grid, but without channel information displayed. It is displayed as a black box.



- 5 Press the Navigation buttons to select the channel to unhide.
- 6 Press COPTIONS.
  - → The options menu appears.
- 7 Press the Navigation buttons to select
   [Unhide channel], then press OK.
   → The channel is unhidden.

#### - Note

• Repeat steps 5 through 7 to unhide other channels.

# Use the Electronic Programme Guide



• EPG is not available in all countries. If available, you will receive either **[Now]**/**[Next]** or 8 days EPG.

EPG is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels

#### Switch on EPG



- The first time you use EPG, you may be prompted to perform an update. Follow the on-screen instructions to perform the update.
- When watching TV, press GUIDE.➡ The EPG menu appears.



#### 2 Press:

- The **Navigation buttons** to move around the screen.
- D INFO to view more information about a programme (see 'View channel/programme information' on page 25).
- DOPTIONS to view the options menu (see 'Use the EPG options menu' on page 26).
- 3 Press → BACK to exit to the original channel, or press OK to exit to the selected channel.

#### View channel/programme information

- 1 When watching TV or when in EPG, press ① INFO.
  - → The programme information screen appears.
- 2 Press the Navigation buttons to navigate the screens.

3 Press <sup>①</sup> INFO to exit back to the original channel or press <sup>→</sup> BACK to exit to the EPG menu.

#### Use the EPG options menu

Use the EPG options menu to set or clear reminders, change day and access other useful EPG options.

#### - Note

• The EPG options are only accessible for 8 days of TV channel information.

#### 1 When in EPG, press © OPTIONS.

→ The EPG options menu appears.



2 Press the Navigation buttons and OK to select and adjust:

- [Set reminder]Sets programme reminders.
- [Clear reminder]Clears programme reminders.
- [Change day]Sets the EPG day. Select [Today], [Next day] or [Previous day].
- [More info] View programme information.
- [Search by genre]Searches TV programmes by genre.
- **[Scheduled reminders]**Lists programme reminders.
- [Preferred channels]Sets preferred EPG channels.

**3** Press D OPTIONS to exit to the EPG options menu.

#### Use timers

You can set timers to switch the TV to standby at a specified time.

# Automatically switch the TV to standby (sleeptimer)

Sleeptimer switches the TV to standby after a pre-defined period of time.

#### 🔆 Тір

- You can always switch off your TV earlier or reset the sleeptimer during the countdown.
- 2 Press the Navigation buttons to select [Setup]
- 3 Press OK.
  - → The **[Setup]** menu appears.
- 4 Press the Navigation buttons to select [Features] > [Sleeptimer].
  - → The [Sleeptimer] menu appears.
- **5** Press the Navigation buttons to set the sleep time.
  - → The sleep timer can be up to 180 minutes, in steps of five minutes. The sleep timer is switched off if set to zero minutes.
- 6 Press OK to activate the sleeptimer.
  - → The TV switches to standby after the set period of time.
- 7 Press → BACK to exit or press (Home) to return to the home menu.

# English

#### Use child and rating locks

You can prevent your children from watching TV by locking the TV and using age ratings.

#### Set or change the child lock code

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The [Setup] menu appears.
- Press the Navigation buttons to select
   [Features] > [Set code]/[Change code].
   → The [Set code]/[Change code] menu appears.
- 5 Enter the code with the Numeric buttons.
- 6 Press OK.
  - → A message appears confirming that your code is set.
- 7 Press → BACK to exit or press (Home) to go back to the home menu.
- 🔆 Тір

 If you forget your code, enter '8888' to override any existing codes.

#### Lock or unlock the TV

Locking the TV prevents your child from accessing all channels and connected devices.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Features] > [Child lock] > [Lock]/ [Unlock].
  - → A message appears prompting you to enter the child lock code.

- 5 Enter the child lock code with the Numeric buttons.
  - → The [Child lock] menu appears.
- 6 Press the Navigation buttons to select [Lock]/[Unlock].
- 7 Press OK to confirm your choice.
  - → All channels and connected devices are locked or unlocked.
- 8 Press → BACK to exit or press → (Home) to go back to the home menu.

#### Enable parental ratings

#### - Note

• Parental rating is not available in all countries.

Some digital broadcasters rate their programmes according to age. Before you can set parental ratings, you have to enable the feature.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]** menu appears.
- 4 Press the Navigation buttons to select [Features] > [Child lock], then press ►.
  - → A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the Numeric buttons.
- 6 Press the Navigation buttons to go back one menu level to [Features] > [Parental rating].
  - → The [Parental rating] menu is now available.

#### Set parental ratings

Some digital broadcasters rate their programmes according to age. You can set your TV to display only programmes with age ratings higher than your child's age.

#### - Note

- Before you can set parental ratings, you have to enable the feature (see 'Enable parental ratings' on page 27).
- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Features] > [Parental rating].
  - → A message appears prompting you to enter the child lock code.
- 5 Enter the child lock code with the Numeric buttons.
- 6 Press the Navigation buttons to select an age rating, then press OK to apply the setting.
  - → All programmes beyond the selected age rating are blocked.
- 7 Press → BACK to exit or press (Home) to go back to the home menu.

#### Use subtitles

You can enable subtitles for each TV channel. Subtitles are broadcast via teletext or DVB-T digital broadcasts. With digital broadcasts, you have the additional option of selecting a preferred subtitle language.

### Enable or disable subtitles on analogue TV channels

- 1 Switch to an analogue TV channel.
- 2 Press TELETEXT.
- 3 Enter the three-digit page number of the subtitle page with the **Numeric buttons**.
- **4** Press **TELETEXT** to switch off teletext.
- 5 Press SUBTITLE.
  - → The [Subtitles] menu appears.

#### Note

- The **[Subtitles]** menu is also accessible through the **[Setup]** menu.
- 6 Press the Navigation buttons to select:
  - [On]Enables subtitles.
  - [Off]Disables subtitles.
  - [On during mute]Displays subtitles only when audio is muted.
- 7 Press OK to confirm your choice.
   → Subtitles are enabled or disabled.
- 8 Press → BACK to exit or press (Home) to go back to the home menu.

#### Note

- Repeat this procedure to enable subtitles on each analogue channel.
- If EasyLink is enabled, subtitles are not displayed when [On during mute] is selected (see 'Enable or disable EasyLink' on page 51).

### Enable or disable subtitles on digital TV channels

- 1 Press SUBTITLE.
  - → The **[Subtitles]** menu appears.

#### - Note

• The [Subtitles] menu is also accessible via the [Setup]menu (see 'Access the setup menu' on page 15).

- 2 Press the Navigation buttons to select:
  - [On]Enables subtitles.
  - [Off]Disables subtitles.
  - [On during mute]Displays subtitles only when audio is muted.
- 3 Press OK.

→ Subtitles are enabled or disabled.

4 Press → BACK to exit or press (Home) to go back to the home menu.

### Select a subtitle language on digital TV channels



- When you select a subtitle language on a digital TV channel as described below, the preferred subtitle language set in the installation menu is temporarily overruled.
- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select
   [Features] > [Subtitle language].
   → A list of subtitle languages appears.

**5** Press the Navigation buttons to select a

- language.
- 6 Press OK to confirm your choice.→ The subtitle language is applied.

• Select preferred subtitle languages in the **[Languages]**menu. Subtitles automatically appear in the preferred languages when enabled.

#### Use the TV clock

You can display a clock on the TV screen. The clock displays the current time using time data received from your TV service operator.

#### Display the TV clock

You can display a clock on the TV screen, displaying the current time.

- 2 Press the Navigation buttons to select [Clock].
- **3** Press **OK** to confirm your choice.
  - $\mapsto$  The clock displays on the TV screen.

#### Note

• To disable the clock, repeat the procedure above.

```
🔆 Tip
```

 The clock is also accessible via the [Setup]menu (see 'Access the setup menu' on page 15).

#### Change the clock mode

By default, the clock mode is set to **[Automatic]**, syncing the TV clock to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock mode to **[Manual]**. If clock mode is **[Manual]**, time data is based on your current time zone (see 'Step 1 Select your system' on page 37) and daylight saving conditions (see 'Enable or disable daylight saving' on page 30).

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]** menu appears.

<sup>-</sup> Note

- 4 Press the Navigation buttons to select [Installation] > [Clock] > [Auto clock mode].
  - → The [Auto clock mode] menu appears.
- 5 Press the Navigation buttons to select [Automatic] or [Manual].
- 6 Press OK to confirm your choice.→ The clock mode is set.

#### Enable or disable daylight saving

If clock mode is set to **[Manual]**, enable or disable daylight saving if required for your time zone.

- In the [Clock] menu, press the Navigation buttons to select [Daylight saving].
  - → The [Daylight saving] menu appears.
- 2 Press the Navigation buttons to select [Daylight saving time] or [Standard time].
- **3** Press **OK** to confirm your choice.
  - → Daylight saving is enabled or disabled for your time zone.

# View photos, play music and watch video

 Philips is not responsible if your USB storage device is not supported nor is it responsible for damage or loss of data from use of this feature.

YourTV is fitted with a USB connector that enables you to view to view photos, listen to music or watch movies stored on a USB storage device.

Your TV also has a network connector, enabling you to access and play media files directly from your computer.

### Connect a USB storage device and enter the content browser

 While the TV is on, connect the USB device to the USB port on the side of your TV.

 $\mapsto$  The USB content browser appears.



#### Note

- The USB content browser is also accessible by selecting [Browse USB] in the home menu.
- If you connect multiple USB storage devices via a USB hub, a message appears prompting you to select a device. Press the Navigation buttons to select the device, then press OK to confirm.
- 2 To exit from the USB content browser, press ♠(HOME).
  - ightarrow The home menu appears.

### Connect to a network and enter the content browser

Before accessing the content browser, be sure that the TV is connected to a computer network (see 'Connect to a network and enter the content browser' on page 30).

- 2 Press the Navigation buttons to select [Browse PC network].
  - $\mapsto$  The content browser appears.

#### Watch a slideshow of your photos

- 1 In the content browser, press the **Navigation buttons** to select a photo.
- 2 Press ►II or OK.
  - → A slideshow begins from the selected image.
- 3 Press:
  - **II** to pause the slideshow.
  - √>, <</p>→ or P +/- to go back or move forward to the next image.
  - Ito stop the slideshow and return to the content browser.

#### Change slideshow settings

- 1 When viewing a slideshow, press **OPTIONS**.
  - → The options menu appears.
- 2 Press the Navigation buttons to select and adjust:
  - [Rotate]Rotates a picture.
  - [Repeat] Repeats the slideshow.
  - [Shuffle on] Displays pictures in the slideshow at random.
  - [Shuffle off]Disables random display of pictures in the slideshow.
  - [Slideshow speed]Sets the amount of time that a picture is shown.
  - [Slideshow transition]Sets the transition from one picture to the next.
- 3 Press OK to confirm your choice.→ The slideshow setting is applied.

#### Listen to music

- 1 In the USB content browser, press the Navigation buttons to select a song.
- 2 Press OK.
  - → The song starts to play in the music player.
- 3 Press:
  - **P +/-** to skip to the next or previous song.

- Image: to fast-forward or rewind a song.
- ▶II to play or pause a song.
- 4 Press or OK to stop play and exit to the USB content browser.

#### Change music settings

- 1 When in the music player, press OPTIONS.
  - $\mapsto$  The options menu appears.
- 2 Press the Navigation buttons to select and adjust:
  - [Repeat] Repeats a song or an album.
  - [Shuffle on]/[Shuffle off]Enables or disables random play of songs.
- **3** Press **OK** to confirm your choice.
  - $\mapsto$  The music setting is applied.

#### - Note

 Slideshow settings are also available by pressing the OPTIONS button when in the content browser.

#### Watch video

- 1 In the USB content browser, press the Navigation buttons to select a video.
- 2 Press OK.
  - → The video starts to play in the video player.
- 3 Press:
  - **P +/-** to skip to the next or previous video.
  - ◀◀/▶▶ to fast-forward or rewind a video.
  - ►II to play or pause a video.
- 4 Press or OK to stop play and exit to the USB content browser.

#### Change video settings

- 1 When in the video player, press OPTIONS.
  - $\hookrightarrow$  The options menu appears.
- 2 Press the Navigation buttons to select and adjust:
  - [Small screen]Plays video in a small screen.
  - [Full screen]Plays video across the whole screen.
  - [Repeat]Repeats a video.
  - [Shuffle on]/[Shuffle off]Enables or disables random play of videos.
- **3** Press **OK** to confirm the setting change.

#### Disconnect a USB storage device

#### Caution

- Follow this procedure to avoid damage to your USB storage device.
- 1 Press ♠(HOME) to exit the USB content browser.
- 2 Wait five seconds before disconnecting the USB storage device.

# Listen to digital radio channels

If digital broadcasting is available, digital radio channels are installed automatically during installation.

- When watching TV, press OK.→ The channel grid appears.
- 2 Press OPTIONS.
  - → The options menu appears.
- 3 Press the Navigation buttons to select [Select list].
  - → The [Select list] menu appears.
- 4 Press the Navigation buttons to select [Radio].

- 5 Press OK.
  - → A list of available digital radio channels appears in the channel grid.
- 6 Press the Navigation buttons to select a radio channel.
- 7 Press OK.
  - → The selected digital radio channel plays through the TV speakers.

#### Update the TV software

Philips continuously tries to improve its products and we recommend that you update the TV software when updates are available. Check www.philips.com/support for availability.

#### Check the current software version

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The **[Setup]** menu appears.
- 4 Press the Navigation buttons to select [Software update] > [Current software info].
- 5 Press OK.
  - → The version of the current software is displayed.

#### Update software (from website)

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.
- Have available a USB storage device with at least 256MB of storage space.
- Have access to a computer with a USB port and internet access.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Software update] > [Update now].
- 5 Press OK.
  - ➡ The update assistant starts. Follow the on-screen instructions to complete the update.

#### Update software (digital broadcasts)

(Only available in some countries) If available, your TV can receive software updates via digital broadcasts.

If an update is available, a message appears prompting you to update the software. We strongly recommend that you update the software when prompted.

Follow the instructions below to update the software at a later stage.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Software update] > [Local updates].
- 5 Press OK.
  - → The TV searches for available software updates via digital broadcasts.

#### Update software (from internet)

(Only available in some countries) If your TV is connected to a router, which is connected to the Internet, you can update the TV software directly from the Internet. You need a high speed Internet connection.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Software update] > [Update now].
- 5 Press OK.
- 6 Select [Internet] and press OK.
  - → The update begins. Once complete, the TV switches off and back on again automatically. Wait for the TV to switch back on; do not use **©POWER** on the TV.

🔆 Тір

• If the TV is connected to the Internet, the TV displays a message about the availability of new software at startup.

#### Change TV preferences

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK.
  - → The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Installation] > [Preferences].
  - → The [Preferences] menu appears.



5 Press the Navigation buttons to select and change:

- **[Location]**Optimises TV settings for your location home or shop.
- [Volume bar]Displays the volume bar when adjusting the volume.
- [Channel information]Displays information about the TV channel every time you switch channels.
- [EasyLink]Enables one-touch play and one-touch standby between EasyLink-compliant devices.
- [EasyLink Remote Control]When EasyLink is enabled, allows remote control key forwarding.
- [Pixel Plus link] When EasyLink is enabled, automatically applies the best Pixel Plus setting if there is more than one (for example, if both your TV and DVD player support Pixel Plus).
- [LightGuide brightness]Sets the brightness of the front LED indicator or LightGuide.
- [Teletext 2.5]Enables or disables Teletext 2.5.
- 6 Press OK.
  - $\mapsto$  The TV preference is applied.

#### Start a TV demo

(Not supported on MHEG channels)

- When watching TV, press DEMO.→ The demo menu appears.
- 2 Press the Navigation buttons to select a demo.
- **3** Press **OK** to start the demo.
- 4 Press DEMO or → BACK to exit the demo.

# Reset the TV to factory settings

Resetting your TV to factory settings restores default picture and sound settings. Channel installation settings remain the same.

- 2 Press the Navigation buttons to select [Setup].
  - → The **[Setup]** menu appears.
- **3** Press the Navigation buttons to select [Installation] > [Factory reset].
- 4 Press OK.
  - → TV settings are reset back to the factory default.

# Use universal remote control (selected models only)

Control other devices such as a DVD player, a set-top box or a home theatre system from Philips or other brands.

To return to TV mode from universal control, press **TV**.

Use these keys to control the devices:

• **DVD**: controls a DVD player, DVD Recorder, DVD-R HDD or Blu-ray Disc player.

- STB: controls a digital receiver or satellite receiver
- HTS: controls a home theatre system or an amplifier.

#### Setup universal remote control

Before you use the TV remote control to control another device, setup the universal remote control mode.



- For some devices, this feature is not supported. There is no suitable RC code.
- 2 Press the Navigation buttons to select
- [Setup].
- 3 Press OK.→ The [Setup] menu appears.
- 4 Press the Navigation buttons to select [I nstallation]>[Universal remote control].
- 5 Press OK.
  - ➡ Follow the on-screen instructions. The TV searches for a suitable RC code for your device.
- 6 When an RC code is detected, press the Universal control buttons to control the device.
  - → The key blinks. Use the remote control to control the detected device.
- 🔆 Тір
- In universal remote control mode, the remote control switches to TV mode after 30 seconds if no key is pressed.

### Manually setup universal remote control

Enter an RC code to setup a universal mode key (see 'Universal remote control codes' on page 59).



- Press and hold the universal mode button (DVD, STB or HTS) and OK simultaneously.
  - → All four keys light up for one second and the key stays lighted.
- 2 Enter the 4-digit RC code for the device.
- 3 If the code is accepted, all four keys blink three times.
  - $\hookrightarrow$  The universal mode key is set up.
- 4 If the code entered is incorrect, all keys blink for two seconds. Re-enter the correct code.
- 5 When setup is complete, press the universal mode key to operate the device.

#### 🔆 Тір

• If the device does not react correctly, repeat the setup with another RC code.
# 6 Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV and digital radio channels (if available). This chapter provides instructions on how to re-install and fine tune channels.

#### Automatically install channels

This section describes how to search and store channels automatically.

#### Install channels

Your TV searches and stores all available digital and analogue TV channels as well as all available digital radio channels.

- 1 In the [Channel installation] menu, press the Navigation buttons to select [Automatic installation].
- 2 Press OK.
  - → A message appears prompting you to start channel installation.



- 3 Press the Navigation buttons to select [Start].
- 4 Press OK.
  - → The channel update screen appears, with [Re-install channels] selected.



#### Caution

- Leave [Settings] unchanged unless your DVB-C provider supplies values for [Network frequency], [Network ID] or [Symbol rate].
- Setting [Frequency scan] to [Full scan] can extend installation time significantly.

#### - Note

- If you have access to DVB-T and DVB-C, and want to view channels from both networks, you must perform channel installation twice

   once for DVB-T and once for DVB-C.
   Select [Antenna] to install DVB-T channels and select [Cable] to install DVB-C channels.
- To switch between DVB-T and DVB-C channels (see 'Access DVB-C and DVB-T channel networks' on page 37).
- 5 Press OK.
  - Follow the onscreen instructions to complete channel installation. When channel installation is complete,
     [Done] is selected and a list of installed channels appears.
- 6 Press OK to confirm your choice.
  - → TheTV exits to the [Channel installation] menu.

#### 🔆 Tip

 When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall stored channels as described below.

# Access DVB-C and DVB-T channel networks

This option appears only if your country supports DVB-C (Digital Video Broadcasting-Cable). If you have installed both DVB-C and DVB-T channels, you have to switch to the respective network to watch channels on that network.



- 2 Press the Navigation buttons to select [Setup].
  - → The [Setup] menu appears.
- 3 Press the Navigation buttons to select [Installation] > [Channel installation] > [Antenna or Cable DVB] > [Antenna] or [Cable].
  - Select [Antenna] to access DVB-T (Digital Video Broadcasting-Terrestrial) channels.
  - Select [Cable] to access DVB-C (Digital Video Broadcasting-Cable) channels.
- 4 Press OK to confirm your choice.
- 5 Press → BACK to exit.
  - → The TV switches to the selected network.

#### Manually install channels

This section describes how to search and store analogue TV channels manually.

#### Step 1 Select your system

#### - Note

- Skip this step if your system settings are correct.
- 2 Press the Navigation buttons to select [Setup].
  - → The **[Setup]** menu appears.
- 3 Press the Navigation buttons to select [Installation] > [Channel installation] > [Analogue: Manual installation] > [System].
- 4 Press OK.
  - $\mapsto$  A list of regional systems appears.
- 5 Press the Navigation buttons to select your country or region.
- 6 Press OK to confirm your choice.
  - → The selected country or region is applied.

# Step 2 Search and store new TV channels

- In the [Analogue: Manual installation] menu, press the Navigation buttons to select [Find channel].
- 2 Press OK.
  - → The [Find channel] menu appears.



- 3 Press:
  - The Navigation buttons or Numeric buttons to manually enter the channel frequency.
  - The Navigation buttons to select [Search next], then press OK to automatically search for the next channel.
- 4 When the correct channel frequency is selected, press the **Navigation buttons** to select **[Done]**.
- 5 Press OK.
  - → The [Analogue: Manual installation] menu appears.
- 6 Press the Navigation buttons to select [Store current channel] to store the new channel under the current channel; or [Store as new channel] to store the new channel under a new channel number.
- 7 Press OK to confirm your choice.→ The channel is stored.

#### Fine-tune analogue channels

You can fine tune analog channels manually when reception is poor.

- 1 When watching TV, select the channel to fine-tune.
- **3** Press the Navigation buttons to select [Setup].
- 4 Press OK.→ The [Setup] menu appears.
- 5 Press the Navigation buttons to select [Installation] > [Channel installation] > [Analogue: Manual installation] > [Fine tune].
- 6 Press OK.
  - → The [Fine tune] menu appears.

- 7 Press the Navigation buttons or Numeric buttons to manually enter the channel frequency.
- 8 When the correct channel frequency is selected, press the Navigation buttons to select [Done], then press OK.
  - → The [Analogue: Manual installation] menu appears.
- 9 Press the Navigation buttons to select [Store current channel] to store the new channel under the current channel.
- **10** Press **OK** to confirm your choice.

# Manually update the channel list

If your TV is in standby mode, an update is performed every morning. This update matches channels stored in your channel list with those available from your broadcaster. In addition to this automatic update, you can

#### 🔆 Tip

 To disable the automatic update, in the [Installation] menu, press the Navigation buttons to select [Channel installation] > [Channel update in standby], then select [Off].

manually update the channel list.

- In the [Installation] menu, press the Navigation buttons to select [Channel installation] > [Automatic installation].
- 2 Press OK.
  - → A message appears with **[Start]** selected, prompting you to start the channel update.
- 3 Press OK.
  - $\mapsto$  The channel update screen appears.
- 4 Press the Navigation buttons to select [Update channels].



#### 5 Press OK.

- ➡ Follow the on-screen instructions to complete channel update. When the update is complete, [Done] is selected and a list of added channels is displayed.
- 6 Press OK.
  - → The [Installation] menu appears.

#### Test digital reception

If using digital broadcasts, you can check the quality and signal strength of digital channels. This allows you to reposition and test your antenna or satellite dish.

- 1 In the [Installation] menu, press the Navigation buttons to select [Channel installation] > [Digital: Reception test] > [Search].
- 2 Press OK.
  - → The [Search] menu appears.
- **3** Press:
  - The Navigation buttons or Numeric buttons to manually enter the channel frequency.
  - The Navigation buttons to select [Search], then press OK to automatically search for the next channel.

If the signal quality and strength is poor, reposition the antenna or satellite dish and retest.

- 4 When complete, press the Navigation buttons to select [Done].
- 5 Press OK.
  - → The [Installation] menu appears.

#### - Note

• If you have further problems with the reception of your digital broadcast, contact a specialised installer.

# Change startup message settings

Enable or disable messages that appear at the startup to indicate whether a channel or installation update is needed.

- In the [Installation] menu, press the Navigation buttons to select [Channel installation] > [Channel update message].
- 2 Press OK.
- 3 Press the Navigation buttons to select [On] or [Off].
  - → Startup messages are enabled or disabled.

#### 7 Connect devices

For best picture quality, we recommend you to use the following connection types, listed below from highest to basic quality:

- 1 HDMI
- 2 3 Y Pb Pr (component)
- SCART
- 4 VIDEO (composite)
- Note
- · The connectivity diagrams provided in this section are examples only. A comprehensive interactive guide to help you connect your product is available at www.connectivityguide. philips.com.

#### **Back connectors**



(1) EXT 1/EXT 2 (SCART)

Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.



#### 2 SPDIF OUT

Digital audio output to home theatres and other digital audio systems.



#### 3 AUDIO OUT L/R

Analogue audio output to home theatres and other audio systems.



④ VGA

Video input from a computer.



#### 5 AUDIO IN

Audio input from devices that require a separate audio connection, such as a computer.



#### 6 EXT 3(Y Pb PrandAUDIO L/R) Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.



#### 7 HDMI1/2/3

Digital audio and video input from highdefinition digital devices such as Blu-ray players.



#### - Note

• If connecting thick HDMI cables, use HDMI1.

#### (8) TV ANTENNA

Signal input from an antenna, cable or satellite.



NETWORK\*This feature is available in selected models only.

Data input from a network.



#### Side connectors



#### 1 AUDIO IN L/R

Audio input from analogue devices connected to **VIDEO** or **S-VIDEO**.



#### 2 VIDEO

Composite video input from analogue devices such as VCRs.



#### 3 S-VIDEO

Video input from analogue devices such as satellite receivers.



#### ④ ∩

Stereo audio output to headphones or earphones.

#### 5 COMMON INTERFACE

Slot for a Conditional Access Module (CAM).

#### 6 USB

Data input from USB storage devices.



#### 7 HDMI

Digital audio and video input from highdefinition digital devices such as Blu-ray players.

#### 8 SERV. U

For use by service personnel only.

#### Connect a computer

#### Before you connect a computer to the TV:

- Set the screen refresh rate on your computer to 60Hz.
- Select a supported screen resolution on your computer.
- Enable **[PC mode]** in the **[Picture]**menu (see 'Manually adjust picture settings' on page 17), and set the picture format to **[Unscaled]**.

### Connect a computer with one of the following connectors:

#### , Note

• Connections via DVI or VGA require an additional audio cable.

HDMI cable



 DVI-HDMI cable (rear HDMI and AUDIO IN)



• DVI-HDMI cable (side HDMI and AUDIO IN L/R)



HDMI cable and HDMI-DVI adaptor (rear HDMI and AUDIO IN)



 HDMI cable and HDMI-DVI adaptor (side HDMI and AUDIO IN L/R)



VGA cable



#### Connect to a computer network (selected models only)

Connect the TV to a computer network and enjoy:

• Multimedia content streamed from your computer

With the TV connected to a computer network, you can view photos, play music and watch video files streamed from your computer (see 'Connect to a network and enter the content browser' on page 30).

#### • Net TV

With the TV connected to a computer network with Internet access, you can browse Net TV.

#### Caution

 Familiarize yourself with the network router, media server software and networking principles before attempting to connect the TV to a computer network. If necessary, read documentation accompanying network components. Philips is not responsible for lost, damaged or corrupt data.

#### What you need

- A network router (with DHCP enabled)
- A computer with media server software installed. The computer must be connected to the network router via a wired or wireless network connection.
- A network cable (RJ45)
- Internet connection, for Net TV



• A complete list of supported media server software is available (see 'Multimedia' on page 53).

# Connect the TV to a computer network

 Connect the network cable between the NETWORK connector at the back of the TV, and a network router.

Be sure that the router is connected to your computer via a wired or wireless connection and that the router's DHCP setting is enabled. For Net TV service, be sure that the network router has complete access to the Internet (and is not restricted by firewalls or other security systems).



- 2 Switch on the router.
- **3** Switch on the computer.
- 4 Setup media server software to access media from your computer (see 'Setup media server software' on page 45), or configure the TV for access to Net TV (see 'Setup media server software' on page 49).

#### Setup media server software

Media server software must be properly configured to enable media sharing. Follow the instructions that follow to setup your media server software and to share media folders. If you do not find instructions for your media server software, refer to documentation accompanying your software to enable media sharing.



You do not need to complete this section to access Net TV.

#### In Microsoft Windows Media Player 11



The instructions are applicable to both Microsoft Windows XP and Vista.

#### Enable media sharing

- 1 In Microsoft Windows, start Windows Media Player 11.
  - → Windows Media Player appears.

00	Now Playing	Library	Rip	Burn	Sync
Music → Li     PaySets     Create P     Grave     Grave	brary • Sangs Album Added	Create Pla Create Au Pictures Video Recorded Other Add to Lib Media Sha Apply Me Add Favor More Opti Help with	Vist to Playlist TV frag Sa Information Chai tes to List When Dr. ons Using the Library	Ctri+N nges 9gging	arch 1

2 Click Library > Media Sharing.

→ The Media Sharing window appears.



- 3 Click Networking....
  - → Network and Sharing Center appears.

C 😳 🕸 = Network and Inter	net • Network and Sharing Ce	nter v 4p Snorth	
Tasks View computers and devices	Network and Sharing	Center	View full map
Connect to a network Set up a connection or network Manage network connections Diagnose and repair	PHELPS-PC (This compute		- Advenue
	Network 2 (Private netv	verk)	Customize
	Access	Local and Internet	
	Connection	Local Area Connection	View status
	A Charing and Discovery		
	Network discovery	e On	۲
11 1	Filesharing	9 Off	۲
	When file sharing is on, accessed by pargle on t @ Turn on file sharing [] Turn off file sharing	Fies and printers that you have shaved from the network.	this computer can be
Service Options	Public folder sharing	+ Off	۲
Windows Feenal	Printer sharing	@ Off (so printers installed)	(

- 4 Click the arrow next to Network discovery.
  - → Network discovery options appear.
- 5 Click Turn on network discovery, then click Apply.



- 7 Click Turn on file sharing, then click Apply.
- 8 Go back to the Media Sharing window.
- 9 In the Sharing settings box, click Share my media to:.

Media Sharing		
Find and share music, pictures, and video on your network. Learn more about sharing.		
Sharing settings		
End media that others are sharing		
Plare my media to:	Settings	
Alow     Dence      Alow     Dence      More Dence      M	Networking	
How does whering chance firewall settings? OK Care	al Acoly	

- 10 Click the Unknown Device icon (the TV), then click Allow.
  - → A green tick appears on the Unknown Device icon, indicating that it is ready for media sharing.

#### 11 Click OK.

#### Add folders for media sharing

- - → The Add To Libary window appears.

Windows Media Playtr					
C D Now Paying	Library Rep	Ban	Sync	19 No	dia Guide
23         Noticit         1. Brown         Security         S	Craft Phylot Craft Arb Phylot Craft Arb Phylot Fistam Ysten Karanten YV Ofter Addit Liberge- Addit Liberge- Addit Provides U. Lith Man. Dagging Mark Optimes. High with Dansy Bulkmay	QM+N	Logh E	augth Rating	P a to
(	х о н не Он	aa) 4a -	•		2

# 2 Click My folders and those of others that I can access.

Add To Lib	rary				6
<b>(</b> ) <sup>(</sup>	elect folders that you odated automatically	want to monitor fo to reflect changes	r media files. The	e Player librar	y on this computer
Select th	e folders to monitor				
O My a	ersonal folders				
(i) My f	olders and those of o	thers that I can ac	cess		
			Leam	more about	monitoring folders
<< #	dvanced Options	1		ОК	Cancel

#### 3 Click Advanced Options.

→ Advanced options appear in the Add To Library window.

Add To Library			-23
Select folders that you want to monitor for media updated automatically to reflect changes.	a files. The Player librar	y on this c	computer is
Select the folders to monitor			
My personal folders			
Wy folders and those of others that I can access			
Monitored Folders	Туре		
C:\Users	Automat	ically add	ed
Add Rgmove	Learn more about	monitoring	folders
2 Add files previously deleted from library	Skip files smalle	or than:	
Add volume-leveling values for all files (slow)	Audio files:	100	KB
	Video files:	500	KB

#### 4 Click Add.

- → The Add Folder window appears.
- 5 Select a folder to share and click OK.
- 6 When all folders are added, click OK in the Add To Library window.
  - ➡ Folders are added to the library, and are ready to be accessed from the TV.

ry			
G: DUNA_2k8/D	UNA_Content/Reference	_BLR\video\MP2PS_N	
283	Files added:	43	
g box at any time be added to you	e. The search will continu r library.	e (although it will take m	ore time) and any
	G:\pLNA_2k3\p 283 g box at any tim be added to you	G: [DUA_38]DUA_Content?Reference 283 File added: 2 box at any time. The search will continu be added to your library.	7*** GLIDLAL_BABDLAL_Content/Reference_BARIvideo/VP2PS_H 283 Files added: 43 pbox at any time. The search will continue (although it will take in be added to your library

# In TVersity v0.9.10.3 (Microsoft Windows)

#### Enable media sharing

- 1 In Microsoft Windows, start TVersity.
  - → TVersity appears.
- 2 Click the Settings tab.
  - $\mapsto$  The TVersity settings appear.

T I TAVALT	TID #
No then he	sarred Help
43	
Sharing   Li	Mary Settings
Decard Reda Library Transoder	Hade Analysis Stress     Analysis Stress     Analysis     Analysi
	$\frac{  h  _{H^{-1}(M^{-1}(M^{-1}))}}{  h  _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h  _{H^{-1}(M^{-1}(M^{-1}))}}{  h  _{H^{-1}(M^{-1})}} = \frac{  h  _{H^{-1}(M^{-1}(M^{-1}))}}{  h  _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h   _{H^{-1}(M^{-1}(M^{-1}))}}{  h   _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h   _{H^{-1}(M^{-1}(M^{-1}))}}{  h   _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h   _{H^{-1}(M^{-1}(M^{-1}))}}{  h   _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h   _{H^{-1}(M^{-1}(M^{-1}))}}{  h   _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h   _{H^{-1}(M^{-1}(M^{-1}))}}{  h   _{H^{-1}(M^{-1}(M^{-1}))}} = \frac{  h    _{H^{-1}(M^{-1}(M^{-1}))}}{  h    _{H^{-1}(M^{-1}(M^{-1}))}} =   h                                  $

- 3 In the Media Sharing Service box, click Start Sharing.
  - ➡ A window appears, informing you that Media Sharing Service started.
- 4 Click OK.

#### Add folders for media sharing

In TVersity, click the Sharing tab.
 → The Sharing options appear.

2 TVersity	
File View Advanced Help	
* 3	
Sharing Library Settings	
(EITEL PRESS	
Concernance of	
Contraction (Contraction)	
Quantum (a)	
In (contraction)	
an present sector in	
In VIDEO REEO	

- 2 Click the green plus icon
  - → Options to add files and folders appear.

TVersity	
File View Advanced Help	
Add File	
Add Internet Hedia Add Internet YESS France	

### Click Add Folder. → An Add Media window appears.

TVersity	
File View Advanced	Help Settines
	Add releas

- 4 Click **Browse** and select folders to share.
- 5 When all folders are selected, click Submit.
  - → Media files are ready to be accessed from the TV.

# In Twonky Media v4.4.2 (Macintosh OS X)

#### Enable media sharing

- In Mac OS X, start Twonky Media.
   → Twonky Media appears.
- 2 In the Basic Setup box, click Clients/ Security.
  - → Clients/Security settings appear.
- 3 Click Enable sharing for new clients automatically, then click Save Changes.
  - → Media sharing is enabled.

#### Add folders for media sharing

- 1 In the Basic Setup box, click Sharing.
  - ➡ Sharing settings appear.



- 2 Click **Browse** to add a folder location. Click Add new content directory to add more folders.
- 3 When all folders are added, click Save changes then click Rescan content directories.
  - → Media files are ready to be accessed from the TV

#### Setup media server software

When the TV is connected to a computer network with Internet access, press 🖨 (Home).

 $\rightarrow$  The home menu appears.

- 2 Press the Navigation buttons to select [Setup].
  - → The [Setup] menu appears.
- 3 Press the Navigation buttons to select [Network] > [Network].
  - → Follow the on-screen instructions that appear to configure the TV for access to Net

#### Use a Conditional Access Module

A Conditional Access Module (CAM) is provided by digital TV service operators to decode digital TV channels.



#### Note

If required, refer to documentation from your operator on how to insert a smart card into the Conditional Access Module.

#### Insert and activate a CAM

#### Caution

- Be sure to follow the instructions described below. Wrong insertion of a CAM may damage both the CAM and your TV.
- 1 Switch off the TV.
- 2 Following the directions printed on the CAM, gently insert the CAM into the COMMON INTERFACE at the side of the TV.



- 3 Push the CAM in as far as it will go.
- 4 Turn on the TV and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use — removing the CAM will deactivate digital services.

#### Access CAM services

- After inserting and activating the CAM, press DOPTIONS.
  - → The options menu appears.

- 2 Press the Navigation buttons to select [Common interface].
- Press OK.
   → A list of CAM applications appears.
- 4 Press the Navigation buttons to select a CAM application.
- 5 Press OK to confirm your choice.
  - → The selected CAM application is enabled.

### Assign a channel decoder

Before using a SCART digital channel decoder, select the channel to decode and assign the decoder to **EXT 1** or **EXT 2**.

- 2 Press the Navigation buttons to select [Setup].
- 3 Press OK. → The [Setup] menu appears.
- 4 Press the Navigation buttons to select [Installation] > [Decoder] > [Channel].
- 5 Press the Navigation buttons to select [Status], then the location of the decoder (eg. EXT 1 or EXT 2).
- 6 Press OK to confirm your choice.→ The decoder is assigned.

### Use Philips EasyLink

Your TV supports Philips EasyLink, which uses the HDMI CEC (Consumer Electronics Control) protocol. EasyLink-compliant devices that are connected through HDMI connectors can be controlled by a single remote control.



#### Note

 Philips does not guarantee 100% interoperability with all HDMI CEC devices.

#### - Note

• The EasyLink-compliant device must be switched on and selected as the source.

#### EasyLink features

#### One-touch play

When you connect your TV to devices that support one-touch play, you can control your TV and the devices with one remote control.

#### One-touch standby

When you connect your TV to devices that support standby, you can use your TV remote control to put your TV and all connected HDMI devices in standby mode.

#### System audio control

When you connect your TV to HDMI CEC compliant devices, your TV can switch automatically to play audio from the connected device.

To use one-touch audio, you must map the audio input from the connected device to your TV.

You can use the remote control from the connected device to adjust the volume.

#### Remote control (RC) key forwarding

RC key forwarding allows you to control EasyLink-compliant devices using your TV remote control.

#### EasyLink buttons

You can control EasyLink-compliant devices with the following buttons on the remote control of your TV.

Button	EasyLink function
►II (Play/	Starts, pauses or resumes
Pause)	playback on your EasyLink
	device.
■ (Stop)	Stops playback on your EasyLink
	device.
•	Starts or stops video recording
(Record)	on your EasyLink device.
◀◀	Searches backward on your
(Previous)	EasyLink device.
►► (Next)	Searches forward on your
	EasyLink device.
0-9	When EasyLink is enabled,
(Numeric	selects a title, chapter or track.
buttons)	
▲▼◀►	Navigates through the menus of
$(\mbox{Navigation}$	your EasyLink devices.
buttons)	
OK	Activates a selection or
	accesses the menu of your
	EasyLink device.
	Displays the menus of your
OPTIONS	EasyLink device. Note that
	when $rightarrow$ (Home) is pressed, the
	TV menu is displayed.
TV	Switches back to the antenna
	source from EasyLink mode.
${}^{\scriptscriptstyle (\text{Standby-}}$	When EasyLink is enabled,
On)	switches the TV and all EasyLink
	devices to standby. Note that
	you must press and hold の
	(Standby-On) for at least 3
	seconds for this to occur.

#### Enable or disable EasyLink

- Note
- Do not enable Philips EasyLink if you do not intend to use it.

- 2 Press the Navigation buttons to select [Setup].
  - → The **[Setup]** menu appears.
- 3 Press the Navigation buttons to select [Installation] > [Preferences] > [EasyLink].
  - $\mapsto$  The EasyLink menu appears.
- 4 Select [On] or [Off].
- 5 Press OK to confirm your choice.
  - ➡ EasyLink is enabled or disabled.

# Enable or disable remote control key forwarding

#### Note

- Enable EasyLink before enabling remote control key forwarding.
- 2 Press the Navigation buttons to select [Setup].
  - → The **[Setup]** menu appears.
- 3 Press the Navigation buttons to select [Installation] > [Preferences] > [EasyLink Remote Control].
- 4 Select [On], then press OK.
  - ➡ RC key forwarding is enabled or disabled on the selected HDMI connector:

#### Note

• If you cannot exit from a device's menu, press © OPTIONS then OK.

#### Set TV speakers to EasyLink mode

When enabled, this feature automatically turns off TV speakers when content from an EasyLink-compliant home theatre system is played. Audio is played only from the home theatre system's speakers.

- 1 When watching content from an EasyLink device, press © OPTIONS.
  - → The options menu appears.
- 2 Press the Navigation buttons to select [TV speakers].
  - → The **[TV speakers]** menu appears.
- 3 Press the Navigation buttons to select [Automatic (EasyLink)].
- **4** Press **OK** to confirm your choice.
  - → The TV speakers are set to EasyLink mode.
- 5 Press COPTIONS to exit.

#### Use a Kensington lock

There is a Kensington security slot at the back of the TV. Prevent theft by looping a Kensington lock between the slot and a permanent object, such as a heavy table.



# 8 Product information

Product information is subject to change without notice. For detailed product information, go to www.philips.com/support.

#### Supported display resolutions

#### Computer formats

- Resolution refresh rate:
  - 640 × 480 60Hz
  - 800 × 600 60Hz
  - 1024 × 768 60Hz
  - 1280 x 1024 60 Hz (supported on full HD TVs only)
  - 1360 × 768 60Hz
  - 1600 x 1200 60Hz (supported on full HD TVs only)
  - 1920 × 1080 60Hz

#### Video formats

- Resolution refresh rate:
  - 480i 60Hz
  - 480p 60Hz
  - 576i 50Hz
  - 576p 50Hz
  - 720p 50Hz, 60Hz
  - 1080i 50Hz, 60Hz
  - 1080p 24Hz, 25Hz, 30Hz, 50Hz, 60Hz

#### Multimedia

- Supported storage device: USB (FAT or DOS-formatted; Mass Storage Class compliant only)
- Images: JPEG
- Supported multimedia file formats:

Format	Video	Audio	File ex- tension
AVI	MPEG-4 SP, MPEG-4 ASP	MPEG Layer 2/3, AC3	.avi
mpeg	MPEG-1, MPEG-2	MPEG-1 Layer 2, LPCM, AC3	.mpg, .mpeg, .vob
mpeg4	MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)	AAC- LC, AAC- HE	.mp4
WMV (Only available on	WMV9/VC1	.wma	.wmv

#### PFL86XXH)

Note

- Multimedia file names must not exceed 128 characters.
- Supported media server software (\*This feature is availabe in selected models only.):
  - Windows Media Player 11 (Microsoft Windows XP or Vista)
  - PacketVideo Twonky Media 4.4.9 (Microsoft Windows or Macintosh OS X)
  - Sony Vaio media server (Microsoft Windows XP or Vista)
  - TVersity v.0.9.10.3 (Microsoft Windows XP)
  - Nero 8 Nero MediaHome
     (Microsoft Windows XP)
  - DiXiM (Microsoft Windows XP)
  - Macrovision Network Media Server (Microsoft Windows XP)
  - Fuppes (Linux)
  - UShare (Linix)
  - Philips Media Manager (Microsoft Windows XP)

- Supported NAS:
  - Philips NAS SPD8020

#### Tuner/Reception/ Transmission

- Antenna input: 750hm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K
- Video playback: NTSC, SECAM, PAL
- DVB-T (Digital Video Broadcasting-Terrestrial) and DVB-C (Digital Video Broadcasting-Cable). See listed countries on the back of the TV

#### Remote control

- Type: RC4495
- Batteries: 3 × AAA (LR03 type)

#### Power

- Mains power: AC 220-240; 50Hz
- Standby power: < 0.15W
- Ambient temperature: 5 to 35 degrees
   Celsius

#### Supported TV mounts

To mount the TV, purchase a Philips TV mount or a VESA-compatible TV mount. To prevent damage to cables and connectors, be sure to leave a clearance of at least 2.2 inches or 5.5cm from the back of the TV.

#### Warning

 Follow all instructions provided with the TV mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

TV screen size	Recommended VESA mount
19 inches/ 48	VESA MIS-D 75, 4
cm	
22 inches/ 56	VESA MIS-D 100, 4
cm	
26 inches/ 69	VESA MIS-E 200, 100, 4
cm	
32 inches/ 81	VESA MIS-F 200, 200, 6
cm	
37 inches/ 94	VESA MIS-F 200, 200, 6
cm	
42 inches/ 107	VESA MIS-F 400, 400, 6
cm	
47 inches/ 119	VESA MIS-F 400, 400, 8
cm	
52 inches/ 132	VESA MIS-F 400, 400, 8
cm	

### EPG information

Country	8 days EPG
UK	Yes
France	No
Finland	Yes
Sweden	Yes
Denmark	Yes
Norway	Yes
Spain	Yes
Germany	Yes
Italy	Yes
Greece	No
Netherlands	Yes
Czech Republic	Yes
Belgium	No
Austria	Yes
Switzerland	Yes
Estonia	Yes
Lithuania	Yes
Croatia	No
Hungary	No
Ireland	No
Luxemburg	No
Poland	No
Portugal	No
Russia	No
Slovakia	No
Slovenia	No
Romania	No
Serbia	No
Latvia	No
Ukraine	No
Bulgaria	No
Kazakhstan	No

8 days EPG is only available in some countries

# 9 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

#### General TV issues

#### The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.

### The TV does not respond to remote control or side controls when switched on

 When the TV is switched on, the front LED indicator flashes for about 20 to 25 seconds. This is normal behaviour. During this time, the TV will not respond to the remote control or side controls. When a picture appears on-screen, the TV responds only to the following remote control buttons for the first few seconds: ∠ +/- (VOLUME +/-), P +/-(Program +/-), (MUTE) and O(Standby-On). All buttons can be used when the front LED indicator stops flashing.

#### The remote control is not working properly:

- Check that the remote control batteries are correctly inserted according to the +/- orientation.
- Replace the remote control batteries if they are flat or weak.
- Clean the remote control and TV sensor lens.

#### The standby light on the TV blinks red:

• Disconnect the power cable from the power outlet. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

### You forgot the code to unlock the child lock feature

Enter '8888'.

#### The TV menu is in the wrong language.

Change the TV menu to your preferred language (see 'Change language settings' on page 14).

### When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:

• No action is required. The creaking sound is normal expansion and contraction of the TV as it cools down and warms up. This does not impact performance.

# When the TV is in standby mode, a startup splash screen is displayed, then returns to standby mode.

 This is normal behavior. The startup screen is displayed when the TV is disconnected from the mains and reconnected.

#### TV channel issues

### Previously installed channels do not appear in the channel list:

• Check that the correct channel list is selected.

### No digital channels were found during the installation:

• Check that the TV supports DVB-T, DVB-T Lite or DVB-C in your country. See the listed countries on the back of the TV.

#### Picture issues

#### The TV is on, but there is no picture:

- Check that the antenna is properly connected to the TV.
- Check that the correct device is selected as the TV source.

#### There is sound but no picture:

 Check that the picture settings are correctly set.

### There is poor TV reception from an antenna connection:

 Check that the antenna is properly connected to the TV.

- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine tune this channel.

### There is poor picture quality from connected devices:

- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

#### The TV did not save your picture settings:

• Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

### The picture does not fit the screen; it is too big or too small:

- Try using a different picture format. The picture position is incorrect:
- Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

#### The picture from broadcasts is scrambled:

• You may need to use a Conditional Access Module to access content. Check with your operator.

### An "e-sticker" banner displaying information appears on the TV display:

 The TV is in [Shop] mode. Remove the e-sticker by setting the TV to [Home] mode. In the [Home] menu, select [Setup] > [Installation] > [Preferences] > [Location] menu. It is necessary to switch the TV to standby to ensure that the TV exits [Shop] mode completely.

#### Sound issues

#### There is a picture but sound quality is poor:

#### - Note

- If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.
- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.
- Check that the TV speakers setting is on in the sound menu.
- Check that the TV audio output is connected to the audio input on the HDMI CEC enabled/EasyLink-compliant HTS device. Sound should be heard from the HTS speakers.

### There is a picture but the sound quality is poor:

• Check that the sound settings are correctly set.

### There is a picture but sound comes from one speaker only:

• Verify that sound balance is set to the centre.

#### HDMI connection issues

#### There are problems with HDMI devices:

- Note that HDCP support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If a HDMI-to-DVI adaptor or HDMI to DVI cable is used, check that an additional audio cable is connected to AUDIO L/R or AUDIO IN (mini-jack only).

#### You cannot use EasyLink features:

Check that your HDMI devices are HDMI-CEC compatible, EasyLink features only work with devices that are HDMI-CEC compatible.

If a HDMI CDC/EasyLink-compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased.

This behavior is normal when a HDMI CEC/EasyLink-compliant device is connected.

#### USB connection issues

#### USB device content is not displayed:

- Check that the USB storage device is set to 'Mass Storage Class' compliant, as described in the storage device's documentation.
- Check that the USB storage device is compatible with the TV.
- Check that the audio and picture file formats are supported by the TV.

#### Audio and picture files do not play or display smoothly

The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

#### Computer connection issues

#### The computer display on the TV is not stable:

- Check that a supported resolution and refresh rate is selected on the computer.
- Set the TV picture format to unscaled.

#### Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at www.philips.com/ support.

If the problem remains unresolved, contact Philips Consumer Care in your country as listed in this user manual.



#### Warning

 Do not attempt to repair the TV yourself. This may cause severe injury, irreparable damage to your TV or void your warranty.



#### Note

 Make a note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.

# English

### 10 Universal remote control codes

Enter a remote control code from this list to setup universal remote control (see 'Manually setup universal remote control' on page 35).

#### DVD codes : DVD player, DVD Recorder, DVD-R HDD, Blu-ray Disc player.

Philips - 0000, 0001, 0002, 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0012, 0064, 0065, 0066, 0067, 0094, 0098, 0103, 0122, 0131, 0132, 0140, 0143, 0144, 0170, 0174, 0175, 0177, 0180, 0190, 0206, 0240, 0255, 0264, 0287, 0293, 0295, 0296, 0302, 0309, 0316, 0317, 0318, 0325, 0327, 0333,0334 Philips Magnavox - 0094 4Kus - 0287 Acoustic Solutions - 0011 AFG - 0135 Airis - 0290 Aiwa - 0113, 0163, 0312, 0343 Akai - 0097 Akura - 0281 Alba - 0112, 0121, 0124, 0127, 0138 Alize - 0285 Amitech - 0135 AMOi - 0225 AMW - 0114.0354 Andersson - 0355 Apex - 0107 Asono - 0290 ATACOM - 0290 Avious - 0288 Awa - 0114 Bang and Olufsen - 0291 Basic Line - 0356 CAT - 0272.0273 Celestron - 0363 Centrex - 0158 Centrum - 0273.0364 Baze - 0288

BBK - 0290 Bellagio - 0114 Best Buy - 0277 Boghe - 0289 BOSE - 0352, 0353, 0357, 0358, 0359, 0360, 0361.0362 Bosston - 0271 Brainwave - 0135 Brandt - 0047, 0145, 0264 Britannia - 0268 Bush - 0121, 0127, 0134, 0169, 0176, 0265, 0267, 0275, 0279, 0288 Cambridge Audio - 0270 CGV - 0135.0270 Cinetec - 0114 CineVision - 0278 Classic - 0104 Clatronic - 0275, 0288, 0365 Coby - 0284 Conia - 0265 Continental Edison - 0114 Crown - 0135, 0145 Crypto - 0280 C-Tech - 0142 CVG - 0135 CyberHome - 0061, 0062, 0063 Daenyx - 0114 Daewoo - 0092, 0114, 0135, 0186, 0193, 0195, 0348 Dalton - 0283 Dansai - 0135.0269 Daytek - 0114, 0133, 0366 Dayton - 0114 DFC - 0275 Decca - 0135 Denon - 0118, 0205, 0209, 0214 Denon - 0118, 0205, 0209, 0214 Denver - 0124, 0203, 0275, 0281, 0284 Denzel - 0266 Desay - 0274 Diamond - 0142.0270 Digitor - 0282Digix Media - 0367 DK Digital - 0134,0300 Dmtech - 0091.0368 Dual - 0266, 0369 DVX - 0142 Easy Home - 0277

Eclipse - 0270 E-Dem - 0290 Electrohome - 0135 Elin - 0135 Elta - 0093, 0135, 0152, 0285 Eltax - 0297.0366 Emerson - 0101 Enzer - 0266 Euroline - 0370 Finlux - 0135, 0270, 0288, 0371 Fintec - 0135, 0372 Fisher - 0102 Futronic - 0373 Gericom - 0158 Giec - 0289 Global Solutions - 0142 Global Sphere - 0142 Go Video - 0095 GoldStar - 0033 Goodmans - 0085, 0112, 0121, 0127, 0158, 0171, 0200, 0216, 0239, 0246, 0275, 0279, 0289 Graetz - 0266 Grundig - 0098, 0158, 0162, 0173 Grunkel - 0135, 0286 GVG - 0135 H and B - 0275.0276 Haaz - 0142, 0270 Harman/Kardon - 0350 HiMAX - 0277 Hitachi - 0022, 0095, 0106, 0121, 0172, 0188, 0202.0218.0266.0277.0311 Hoeher - 0290 Home Tech Industries - 0290 Humax - 0221 Hyundai - 0224. 0286. 0374 Infotech - 0375 Innovation - 0099, 0100, 0106 Jamo - 0376 IBL - 0377 Jeutech - 0271 IVC - 0054, 0055, 0056, 0057, 0058, 0059, 0060, 0079, 0080, 0081, 0082, 0141, 0153, 0157, 0161, 0164, 0165, 0166, 0167, 0247, 0248, 0249, 0250, 0251, 0252, 0253, 0254, 0264, 0301, 0337 Kansai - 0284 KFF - 0378 Kennex - 0135

Kenwood - 0159, 0220, 0308, 0379 KeyPlug - 0135 Kiiro - 0135 Kingavon - 0275 Kiss - 0266. 0276 Koda - 0275 KXD - 0277 Lawson - 0142 Lecson - 0269 Lenco - 0135, 0275, 0288 Lenoxx - 0380 LG - 0031, 0032, 0033, 0071, 0101, 0117, 0137, 0204, 0229, 0234, 0258, 0313, 0329, 0330, 0331, 0336 Life - 0099, 0100 Lifetec - 0099, 0100, 0106 Limit - 0142 Linn - 0381 Liteon - 0287 Loewe - 0098, 0175, 0213, 0382 LogicLab - 0142 Lumatron - 0383 Luxor - 0158 Magnavox - 0264, 0275, 0293 Magnex - 0288 Magnum - 0106 Majestic - 0284 Marantz - 0009, 0103, 0211, 0212 Marguant - 0135 Matsui - 0145, 0235 MBO - 0110 Mecotek - 0135 Mediencom - 0268 Medion - 0099, 0100, 0106, 0279, 0384 Metz - 0096 MiCO - 0270, 0289, 0385 Micromaxx - 0099, 0100, 0106 Micromedia - 0264 Micromega - 0009 Microstar - 0099, 0100, 0106 Minoka - 0135 Minowa - 0288 Mirror - 0279 Mivoc - 0386 Mizuda - 0275, 0277 Monyka - 0266 Mustek - 0104, 0112, 0304

Mx Onda - 0270 Mystral - 0286 NAD - 0109,0387 Naiko - 0135.0158 Nakamichi - 0111, 0388 Neufunk - 0266 Nevir - 0135 Next Base - 0226 NU-TEC - 0265 Omni - 0268 Onkyo - 0215, 0264, 0293 Oopla - 0287 Optim - 0269 Optimus - 0294 Orava - 0275 Orbit - 0114 Orion - 0176 Oritron - 0100 P and B - 0275 Pacific - 0142 Palladium - 0389 Palsonic - 0267 Panasonic - 0026, 0027, 0028, 0029, 0030, 0118, 0120, 0125, 0126, 0128, 0129, 0130, 0189, 0201, 0241, 0243, 0244, 0245, 0259, 0260, 0261, 0298, 0303, 0319, 0320, 0321, 0322, 0323, 0326, 0335, 0342,0344 peeKTON - 0290, 0390 Pensonic - 0227 Phonotrend - 0288 Pioneer - 0034, 0035, 0036, 0037, 0038, 0039, 0040, 0072, 0073, 0074, 0075, 0096, 0115, 0119, 0154, 0155, 0156, 0191, 0192, 0196, 0197, 0198, 0236, 0294, 0314, 0332 Pointer - 0135 Polaroid - 0222 Portland - 0135 Powerpoint - 0114 Proline - 0158 Promax - 0223 Prosonic - 0135.0284 Provision - 0275 Raite - 0266 REC - 0267.0268 RedStar - 0135, 0281, 0284, 0391 Reoc - 0142 Revoy - 0276

Rimax - 0285 Roadstar - 0121, 0267, 0275 Ronin - 0114 Rowa - 0158, 0265 Rownsonic - 0273 Saba - 0047, 0145 Sabaki - 0142 Saivod - 0135 Sampo - 0105 Samsung - 0022, 0023, 0024, 0025, 0076, 0077, 0078,0095,0123,0136,0151,0184,0194,0207, 0217, 0307, 0340, 0341, 0349 Sansui - 0135, 0142, 0270, 0392 Sanyo - 0147, 0150, 0181, 0185, 0306 ScanMagic - 0112 Scientific Labs - 0142 Scott - 0124.0283 Seeltech - 0290 SEG - 0090, 0114, 0121, 0142, 0179, 0266 Sharp - 0099, 0109, 0149, 0168, 0178, 0199, 0210, 0230, 0231, 0256, 0257, 0262 Sherwood - 0108 Sigmatek - 0277.0290 Silva - 0281 Singer - 0142, 0270 Skymaster - 0104, 0142 Skyworth - 0281 Slim Art - 0135 SM Electronic - 0142 Sontech - 0286 Sony - 0013, 0014, 0015, 0016, 0017, 0018, 0019, 0020, 0021, 0068, 0069, 0070, 0113, 0116, 0139, 0146, 0148, 0183, 0232, 0242, 0299, 0305, 0310, 0324, 0328, 0346 Soundmaster - 0142 Soundmax - 0142 Spectra - 0114 Standard - 0142 Star Cluster - 0142 Starmedia - 0275, 0290 Sunkai - 0135 Supervision - 0142 Synn - 0142 T.D.E. Systems - 0286 T+A - 0393 Tatung - 0135 TCM - 0023, 0099, 0100, 0106, 0292, 0397

Teac - 0096.0142.0208.0265.0394 Tec - 0281 Technics - 0118 Technika - 0135.0288 Telefunken - 0273 Tensai - 0135 Tevion - 0099, 0100, 0106, 0142, 0283 Thomson - 0046, 0047, 0048, 0049, 0050, 0051, 0052, 0053, 0083, 0084, 0233, 0263, 0339, 0347 Tokai - 0266. 0281 Top Suxess - 0290 Toshiba - 0012, 0041, 0042, 0043, 0044, 0045, 0086, 0087, 0088, 0089, 0094, 0182, 0187, 0219, 0237, 0238, 0264, 0293, 0345 TRANS-continents - 0114,0288 Transonic - 0288 Trio - 0135 TruVision - 0277 TSM - 0290 Umax - 0285 Union - 0351 United - 0288 Universum - 0395 Viewmaster - 0290 Vtrek - 0280 Waitec - 0290 Welltech - 0289 Wharfedale - 0142.0270 Wintel - 0271 Woxter - 0285, 0290 Xbox - 0048 Xenon - 0228 Xlogic - 0135, 0142 XMS - 0135.0267 Xoro - 0289.0396 Yakumo - 0158 Yamada - 0114, 0158, 0285, 0287 Yamaha - 0009, 0118, 0120, 0315, 0338 Yamakawa - 0114, 0266 Yukai - 0112.0160 Zenith - 0101.0264.0293

**STB codes : Digital receiver** Philips - 0432, 0436, 0437, 0439, 0506 ABC - 0448 ADB - 0461, 0462 Alcatel - 0463.0540 Allegro - 0464 Amstrad - 0431,0449 Andover - 0452 Arcon - 0431 Atlanta - 0465 Auna - 0466 Axis - 0431 BBT - 0467 Belgacom TV - 0468 Bell Atlantic - 0453 Birmingham Cable Communications - 0451 British Telecom - 0448 BT Cable - 0448 Cabletime - 0538 Clyde - 0454 Clyde Cablevision - 0443 Comcrypt - 0442, 0469 Connect TV - 0470 Coship - 0471 Cryptovision - 0444, 0472 Daehan - 0473 Decsat - 0474 Digi1 - 0475 Fastern - 0476 Electricord - 0477 Electus - 0455 Fastweb - 0478 Fidelity - 0431 Filmnet - 0442 Filmnet Cablecrypt - 0445, 0539 Filmnet Comcrypt - 0445 Finlux - 0434 Foxtel - 0449 France Telecom - 0437, 0439, 0479 Freebox - 0450, 0480 GC Electronics - 0481 GE - 0482 GEC - 0443, 0454 General Instrument - 0433, 0448, 0483 Golden Channel - 0461 Gooding - 0432 Grundig - 0431, 0432 Hirschmann - 0434 Hitachi - 0484 HomeChoice - 0441, 0485 Humax - 0486.0487

HyperVision - 0435 ITT Nokia - 0434 lerrold - 0433, 0448, 0536 liuzhou - 0488 IVC - 0432 Kabel Deutschland - 0489, 0490 Kansalaisboksi - 0491 LG Alps - 0492 Macab - 0439 Maestro - 0493 Magnavox - 0494 Maspro - 0432 Matav - 0462 Matsui - 0432 Maxdome - 0489 Medion - 0495 Minerva - 0432 Mnet - 0442, 0539 Mood - 0496 Motorola - 0497 Movie Time - 0447 Mr Zapp - 0439 Multichoice - 0442 NEC - 0498 NeufTelecom - 0533 Nokia - 0434.0499 Noos - 0439 Northcoast - 0500 Novaplex - 0501 Now - 0502 NTL - 0456 Omniview - 0503 Ono - 0457, 0504 Orange - 0534 Pace - 0535 Pacific - 0505 Palladium - 0432 Pioneer - 0431 Prelude - 0507 Protelcon - 0508 PVP Stereo Visual Matrix - 0536 Regency - 0509 Sagem - 0439 Samsung - 0440, 0502 SAT - 0431 Satbox - 0458 Satel - 0459

Scientific Atlanta - 0446 Seam - 0510 Sharp - 0511 SingTel - 0512 SkyCable - 0513 Skyworth - 0514 Starcom - 0448 Stargate - 0515 Stellar One - 0516 TaeKwang - 0517 Tandy - 0518 Tatung - 0519 Teknika - 0520 Tele+1 - 0442, 0445, 0539 Telefonica - 0460 Telegent - 0521 Telenet - 0522 Telepiu - 0442, 0539 Thomson - 0438 Timeless - 0476 Tiscali - 0523 Tocom - 0524

#### STB codes : Satellite receiver

Philips - 0000, 0001, 0002, 0008, 0020, 0054. 0065, 0069, 0070, 0072, 0075, 0077, 0111, 0119, 0136, 0140, 0144, 0155, 0156, 0159, 0163, 0165, 0388, 0390, 0391, 0392, 0396, 0410, 0412, 0420, 0422, 0423, 0427 AB Sat - 0163.0164.0173.0425 Action - 0187 ADB - 0175, 0188 Aegir - 0189 AGS - 0163 Akai - 0054,0391 Akura - 0190 Alba - 0015, 0019, 0020, 0021, 0023, 0044. 0067,0164,0234,0412 Aldes - 0021, 0023, 0024, 0234, 0395 Allantide - 0191 Allegro - 0192 Allsat - 0040, 0054, 0193, 0384, 0390, 0391 Allsonic - 0010, 0023, 0028, 0395, 0402 Alltech - 0164, 0414 Alpha - 0391 Altai - 0403

Amino - 0194 Amitronica - 0164 Ampere - 0153, 0403 Amstrad - 0026, 0055, 0074, 0108, 0153, 0158, 0164, 0169, 0195, 0394, 0399, 0403, 0415, 0417, 0421,0426 Amway - 0196 Anglo - 0164 Ankaro - 0010, 0023, 0028, 0164, 0197, 0392, 0395.0402 AntSat - 0198 Anttron - 0019, 0023, 0390, 0412 AnvSat - 0199 Apollo - 0019 Arcon - 0027, 0041, 0153, 0419 Arion - 0200 Ariza - 0201 Armstrong - 0026, 0391 Arrox - 0202 ASA - 0404 Asat - 0054, 0391 ASCI - 0203 ASLF - 0164 AST - 0031, 0204, 0397 Astacom - 0163.0420 Aston - 0022.0205 Astra - 0026, 0029, 0030, 0050, 0161, 0164, 0206.0387.0400.0407 Astratec - 0207 Astro - 0010, 0023, 0024, 0028, 0033, 0155, 0156, 0158, 0161, 0208, 0388, 0402, 0412 Atlanta - 0209 AudioTon - 0023, 0040, 0412 Aurora - 0168.0210 Austar - 0071.0168.0211 Avalon - 0403 Axiel - 0163 Axil - 0212 Axis - 0010, 0028, 0030, 0036, 0401, 0402, 0407 B and K - 0213 Barcom - 0027 BeauSAT - 0212 BEC - 0214 Beko - 0215 Belgacom TV - 0216 Belson - 0217 Benjamin - 0218

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# Information about how to re-tune your TV during the digital TV switchover.



Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see the next page to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

# How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones.



Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

If you have any questions, please contact your equipment supplier or call Digital UK on ... 0845 6 50 50 50 or visit www.digitaluk.co.uk

#### How to re-tune:

To find out how to re-tune your TV, check this user manual for details.

If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

## When does switchover happen?

