

ZH 用户手册

56PFL9954H

PHILIPS

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LCD TV (Mainstream, High End and BDS)

Environmental Information

产品中有毒有害物质或元素的名称及含量 Names and Contents of Toxic or Hazardous Substances or Elements

	有毒有害物质或元素						
部件名称 Name of the Parts	铅 (Pb, Lead)	汞 (Hg,Mercury)	Hazardous 镉 (Cd,Cadmium)	/Ioxic Substand 六价铬 (Chromium6+)	:e 多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
Housing 外壳	0	0	0	0	0	0	
LCD Panel 液晶面板	Х	X	0	0	0	0	
PWBs 电路板组件	Х	0	0	0	0	0	
Accessories (Remote control & cables) 附件(遥控器,电 源线,连接线)	х	0	0	0	0	0	
Batteries in Remote Control 遥控器电池	Х	0	0	0	0	0	

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〇:表示该有毒有害物质在该部件所有均质材料中的含量均在SJT11363-2006标准规定的限量要求以下。

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous

materials for this part is below the limit requirement in SJ/T11363 - 2006.

×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。 X: Indicates that this toxic or hazardous substance contained in at least one of the

homogeneous materials used for this part is above the limit requirement in SJ/T11363 - 2006.

环保使用期限 Environmental Protection Use Period 此标识指期限(十年),电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生

此标识捐期限(十年),电于信息产品中含有的有每有害物质或元素在止常使用的条件下不会发生 外泄或突变,用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重 损害 的期限。

This logo refers to the period (10 years) during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

电池标识 Battery labeling logo

<u> 环保使用期限 Environmental Protection Use Period</u>

此标识指期限(五年),电池中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变,用户使用该电池产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

This logo refers to the period (5 years) during which the toxic or hazardous substances or elements contained in the **battery** will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

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1 Get started

1.1 Important

1.1.1 Enjoy HD TV

This TV can display High Definition programmes, but to enjoy HD TV you need to get programmes in HD first. If you are not watching HD programmes, the picture quality will be that of a normal TV.

1.1.2 Safety

Make sure you have read and understood all instructions before using your TV. The warranty becomes invalid if any damage is caused by failure to follow instructions.

Risk of electric shock or fire!

- Never expose the TV or remote control to rain, water or excessive heat.
- 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.
- Keep candles and other naked flames away from this product at all times.
- Never insert objects into the ventilation slots or other openings on the TV.
- Ensure power plugs do not come under heavy force. Loose power plugs can cause arcing and are a fire hazard.
- Never place the TV or any objects on the power cord.
- When disconnecting the power cord, always pull the plug, never the cord.

Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25 kg.
- If you mount the TV on a stand, only use the supplied stand. Secure the stand to the TV

tightly. Place the TV on a flat, level surface that can support the weight of the TV.

 When mounting the TV on a wall, ensure that the wall mount can safely bear the weight of the TV set. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that results 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 mounting 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!

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

Lightning storms

Disconnect the TV from the power outlet and antenna before lightning storms. During lightning storms, never touch any part of the TV, power cord or antenna cable

Risk of hearing damage!

Avoid using earphones, 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 the room temperature before connecting the TV to the mains.

1.1.3 Position the TV

Carefully read the safety precautions before positioning the TV.

- Position the TV where light does not shine directly on the screen.
- Dim lighting conditions in the room for best Ambilight effect.
- Position the TV up to 25 cm away from the wall for the best Ambilight effect.



1.1.4 Viewing distance

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Position the TV at the ideal viewing distance. Benefit more from HD TV picture or any picture without straining your eyes. Find the 'sweet spot', right in front of the TV, for the best possible TV experience and relaxed viewing. The ideal distance to watch TV from is three times its diagonal screen size. While seated, your eyes should be level with the centre of the

1.1.5 Security slot

screen.

Your TV is equipped with a Kensington security slot at the back of the TV.

Purchase a Kensington anti-theft lock (not supplied) to secure the TV.



1.1.6 Screen care

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- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- 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.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.
- Avoid stationary images as much as possible. Stationary images are images that remain onscreen for extended periods of time. Stationary images include onscreen menus, black bars, time displays, etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

1.1.7 End of use

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.

1.1.8 ECO - Green

This TV has features that contribute to energy-efficient use.

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 Energy saving 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**, select **Active control** and press **OK**. Your current TV setting is highlighted. You can change to another setting to check the corresponding values.

1.2. Keys on the TV

1.2.1 Switch on

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It takes a couple of seconds for the TV to start up.

If the red standby indicator is off, press 0 at the right of the TV to switch it on. Press 0 again to switch off.



The white LED flashes during start-up and switches off completely when the TV is ready for use. The Ambilight shows the TV is on. You can set the white LED on permanently or set its brightness. Press $rac{}$ > Setup > Installation > Preferences > LightGuide brightness.

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1.2.2 LightGuide

The LightGuide at the front of the TV indicates whether the TV is on or is starting up.



1.2.3 Volume

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The keys on the side of the TV allow basic TV control.

You can adjust the volume with Volume + / - on the side of the TV.



1.2.4 Programme

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The keys on the side of the TV allow basic TV control.

You can switch TV channels with $\ensuremath{\text{Program}}+\ensuremath{/}$ - on the side of the TV.



1.2.5 Source

The keys on the side of the TV allow basic TV control.

To open the Source list to select a connected device, press **Source** +D.

Press **Source** • again to select a connected device in the list. After a few seconds the TV switched to the selected device.



1.2.6 IR sensor

Always take care to point the remote control at the remote control infra red sensor on the front of the TV.



1.3 Wall mounting

1.3.1 VESA info

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Your TV is prepared for VESA compliant wall mounting. A VESA wall mount bracket is not included.

Use the following VESA code to purchase the bracket.

VESA MIS-F 400, 400, 8

When mounting the TV on a wall, always use all 4 fixing points on the back of the TV. Use a screw length as shown in the drawing.



1.3.2 Wall mounting

Caution

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Wall mounting the TV requires special skills and should only be performed by qualified personnel. The TV wall mounting should meet safety standards according to the TV's weight. Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting or any mounting that results in accident or injury. You must read the safety precautions before positioning the TV.

Wall mounting

The instructions on how to wall mount the TV are also mentioned in the Start guide that comes with the TV.

To wall mount the TV, use the bracket and the 2 small plastic tubes (spacers) included in the packaging. Follow the instructions.

The TV is mounted at the correct height if your eyes are level with the centre of the screen when you sit down.



1 Calculate the TV's ideal position.



4 Connect all cables.

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5 Lift the TV into the wall mount bracket.

2 Position and level the wall mount bracket and fix the bracket firmly to the wall.



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3 Mount the 2 spacers on the 2 lower discs at the back of the TV.



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6 You can slide and level the TV on the bracket.



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1.3.3 TV stand

This Cinema 21:9 TV is ideal for wall mounting. However, if you would prefer to mount the TV on a TV stand, you can order the matching Cinema 21:9 tabletop swivel stand.

Philips Cinema 21:9 - ST 569954

Order this stand at your local dealer or online.

1.4 Product highlights

1.4.1 Cinema 21:9

This Cinema 21:9 TV perfectly matches the original movie format and is equipped with a full High Definition (HD) display. A full HD 2560×1080p, the highest resolution of HD sources.

This display offers a brilliant flickerfree progressive scan picture with optimum brightness and superb colours. Advanced formatting technology continuously analyses the incoming signals and progressively stretches non 21:9 images to full screen and avoids distortion.

The ultimate cinematic experience

The Philips Home Theatre Receiver HTR9900 and Blu-ray Disc player BDP9100 together with your Cinema 21:9 TV create the ultimate cinematic experience in your home. The cinematic 7.1 channel surround sound from the 7 speakers and a subwoofer combined with the unrivalled High Definition pictures from the matching Blu-ray Disc player complete your cinema feeling.

Ask your Philips dealer for a demonstration.



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1.4.2 Ambilight

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Ambilight is the lighting technology that emanates from the back of the television onto the wall. This innovative technology automatically adjusts the colour and brightness of the light to match the TV picture.

This creates an unprecedented improvement in viewing experience. The light also reduces eyestrain thus providing a more relaxing viewing experience.

1.4.3 DVB-T and DVB-C integrated tuner

Next to normal analogue TV broadcast your TV can receive digital terrestrial (DVB-T) and in certain countries also digital cable (DVB-C) TV and radio broadcasts.

DVB — Digital Video Broadcasting gives you better picture and better sound quality. Some broadcasters have several audio (speech) and/or teletext languages available. Verify if the TV supports DVB-T or DVB-C in your country. Check the 'Digital TV Country Compatibility' sticker on the back of the TV.

1.4.4 Programme guide

The Programme guide is an onscreen guide to scheduled TV programmes. This guide is provided by digital broadcasters or the Net TV online service. You can read the programme summary, set a message to remind you when the programme starts or select programmes by genre.

Read 3.3 Programme guide.

1.4.5 Wireless network

Simply link up this TV to your wireless network at home. There is no need for a network cable. Enjoy your pictures, videos and music files from your PC on a big screen.

Read 4.3 Network.

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1.4.6 Net TV

You can link up your TV to Net TV. The Net TV start page offers you movies, pictures, music, infotainment, games and many more, all set up for your TV screen.

To enjoy NetTV you need to connect the TV to a router connected to the Internet. Read more on NetTV in **2.8 NetTV**.

Read more on connecting to a router in **4.3** Network.

1.4.7 USB and PC network connection

View or play your own multimedia files (photos, music, videos, $\ldots)$ from the USB connection on the side of the TV.

Connect the TV to a home PC network and enjoy watching multimedia files stored on your PC.

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1.4.8 Universal remote control

Your TV remote control is a universal remote control that can operate other devices such as DVD players and recorders, digital receivers (STB) or Home Theatre Systems (HTS) from Philips or other brands.

Read more on Universal remote control in **2.1.2 Universal RC setup**.

1.5 User manual

This TV has a built in user manual (only in English).

This manual contains all of the information needed to install and operate this TV.

You can open or close the user manual with the yellow \square key on the remote control.

Before you carry out the instructions, close the manual with the yellow 🏛 key. When you open the manual again, it opens on the same page you left it.



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2 Use your TV

2.1 Remote control

2.1.1 Remote control overview



Standby () 1 To switch the TV on or back to standby. 2 TV key To set the remote control in TV mode. 3 Colour keys Easy selection of teletext pages To open or close the **Demo** menu (red key) Home 合 4 To open or close the Home menu. Guide 💷 5 To open or close the Programme Guide. To open or close the content list when you browse multimedia content. 6 Navigation key To navigate up, down, left or right. 7 OK key To open or close the channel overview To activate a selection 8 Back 🕁 To go back or close a menu without changing a setting. To go back to the previous TV channel or the previous teletext page. To go back to the previous Net TV page. 9 Mute 🕷 To mute the sound or restore it. 10 Volume ⊿ To adjust the volume. 11 Net TV To open or close the Net TV start page. 12 Teletext To switch teletext on or off. 13 Number keys To select a TV channel or enter digits. 14 Subtitle To open the subtitle on / off menu. 15 Ambilight To switch Ambilight on or off.

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- 16 **Source** To select a connected device from the Source list.
- 17 **Disc menu** To show the disc menu of a disc player connected with an HDMI cable with EasyLink set to On_
- 18 Format ED To select a picture format.
- 19 Channel / Programme up and down To switch to the next or previous channel in the channel overview. To switch to the next or previous teletext page.
- 20 Audio Video keys ◀, ►II, ►►, ■, To play multimedia files. To operate a disc player connected with
- EasyLink HDMI-CEC. 21 Info i

To open or close channel or programme information, if available.

- 22 Options E To open or close the options menu which
- shows the available options. 23 **User manual** (yellow key) To open or close the user manual.
- 24 DVD, STB and HTS keys Universal remote control keys.

2.1.2 Universal remote control

Your TV remote control can control other devices such as a DVD player or a Home Theatre System from Philips or other brands.

To operate a device with the TV remote control, you need to set up one of the Universal mode keys for your particular device.

Once setup is complete, the Universal mode key sets the remote control to operate the device but the TV screen will not switch to that device.

UNIVERSAL MODE UNIVER

DVD, STB or HTS key

Use the

- DVD key to operate a DVD player or Blu-ray Disc,
- **STB** key for a set-top box or digital cable receiver
- HTS key for a Home Theatre System.

As long as the key blinks, you can control the device with the relevant keys on the remote control.

To return to normal TV control, press **TV**. When no key is pressed for 30 seconds, the remote control switches back to TV control. ۲

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Setup for a particular device

To start the Universal mode key setup in the Home menu, press **A** > **Setup** > **Installation** > **Universal remote control** and press **OK**. Follow the instructions on screen. The TV will search for a suitable RC code for your device. When an RC code is found, you can try out the remote control keys for this device. If not all keys work, you can continue the search. In some cases, there are no suitable RC codes available for some devices.

Manual setup

You can manually enter an RC code to set up a Universal mode key. Look up the appropriate RC code in the **Universal RC code list** in this user manual. In the list, look for the type of device and brand you need. Some brands have several RC codes available. When setup is performed manually, try to operate the device with the relevant keys. If the device does not respond or operates incorrectly and there is more than 1 code available, you can restart the manual setup using another RC code.

To enter an RC code manually

- Press the Universal mode key you want to set up, DVD, STB or HTS and press this key together with the OK key for 4 seconds simultaneously. All 4 keys light up for 1 second and the key you are setting stays lit.
- 2 Enter the 4-number RC code you found in the list.
- 3 If the code is accepted, all 4 keys blink 3 times. If you entered a code that does not exist, all keys blink for 2 seconds. You can reenter a code.
- 4 If the code is accepted, the Universal mode key is set up.

(1) Warning

To avoid the loss of stored Universal remote control codes, do not leave the remote control without battery power for more than 5 minutes. Also during the replacement of the batteries, do not press any remote control key.

Dispose of batteries according to the end of use directives. Read **1.1.7 End of use**.

2.1.3 Universal RC code list

Use Manual setup to enter an **RC code** from the list hereafter. Read **2.1.3 Universal RC code list**.

To setup the **DVD** key, first find the RC code for your DVD or Blu-ray Disc player in the DVD codes list. See the lists for Digital receiver or Satellite receiver to setup the **STB** key. To setup the **HTS** key, see the list for Home Theatre System.

Write down the codes for your brand and device and try out the codes one by one until the setup is successful.

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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 AEG - 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

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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 DÉC - 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 - 0282 Digix 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, Metz - 0096 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

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Jamo - 0376 , JBL - 0377 Jeutech - 0271 JVC - 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 KEF - 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 Marquant - 0135 Matsui - 0145, 0235 MBO - 0110 Mecotek - 0135 Mediencom - 0268 Medion - 0099, 0100, 0106, 0279, 0384 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

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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 Cabletime - 0538 Clyde - 0454 Clyde Cablevision - 0443 Comcrypt - 0442, 0469 Connect TV - 0470 Coship - 0471 Cryptovision - 0444, 0472 Daehan - 0473 Decsat - 0474 Digi1 - 0475 Eastern - 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 Jerrold - 0433, 0448, 0536 Jiuzhou - 0488 . JVC - 0432 , Kabel Deutschland - 0489, 0490 Kansalaisboksi - 0491

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Uniden - 0525 United Cable - 0536 Universal - 0526 Universum - 0432, 0434 Videoway - 0537 VideoVorks - 0527 Videot - 0528 Viewstar - 0529 Vision - 0530 Visionetics - 0531 Visiopass - 0434, 0437, 0439 Wittenberg - 043 Zenith - 0532

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Satellite receiver STB codes

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 Antron - 0019, 0023, 0390, 0412 AnySat - 019 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

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Sogo - 0346 Sonaecom - 0347 Sony - 0055, 0156 SR - 0026, 0050, 0153 Star Clusters - 0348 Star Trak - 0349 StarView - 0350 Starland - 0164 Starring - 0035, 0398 Start Trak - 0019 Strong - 0010, 0019, 0023, 0028, 0045, 0168, 0170, 0271, 0402 STVI - 0013 Sumida - 0026 Sunny Sound - 0010, 0402 Sunsat - 0164, 0351, 0407 Sunstar - 0010, 0026, 0050, 0153, 0402 Sunstech - 0352 Super Sat - 0162 Super Track - 0353 SuperGuide - 0354 Supermax - 0171 SVA - 0355 Swisstec - 0303 Systec - 0153, 0356 S-ZWO - 0357 TaeKwang - 0358 Tandberg - 0060 Tandy - 0023 Tantec - 0020, 0043 Tatung - 0038 TBoston - 0359 TCM - 0028, 0059, 0062, 0379 Techniland - 0034, 0400 TechniSat - 0007, 0008, 0009, 0032, 0154, 0156, 0158, 0391, 0408 Technology - 0168 Technomate - 0277 Technosat - 0171 Technosonic - 0360 TechnoTrend - 0133 Technowelt - 0153, 0161, 0169 Teco - 0026, 0050 Tee-Comm - 0185 Telanor - 0021 Telasat - 0152, 0160, 0161, 0411 Teleciel - 0412 Telecom - 0164 Teledirekt - 0390 Telefunken - 0019, 0056, 0163, 0420 Teleka - 0023, 0026, 0032, 0158, 0161, 0403, 0406, 0412, 0419 Telemaster - 0024 Telemax - 0048 Telesat - 0160, 0161, 0411 Telestar - 0154, 0156, 0158 Teletech - 0430 Televes - 0020, 0061, 0153, 0158, 0345 Telewire - 0040 Tempo - 0171 Tevion - 0028, 0059, 0062, 0164 Thomson - 0006, 0020, 0057, 0060, 0103, 0106, 0117, 0141, 0150, 0151, 0152, 0156, 0161, 0163, 0164, 0396

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Thorens - 0039, 0361 Thorn - 0020 Tioko - 0037, 0153 Tokai - 0391 Tonna - 0020, 0034, 0040, 0158, 0164, 0400 Topfield - 0126, 0362, 0382 Toshiba - 0363 TPS - 0058, 0364 Tratec - 0365 Triad - 0031, 0045, 0366, 0397 Triasat - 0158, 0405 Triax - 0033, 0056, 0152, 0153, 0158, 0164, 0405 Turnsat - 0164 Tvonics - 0114, 0367, 0368 Twinner - 0013, 0061, 0153, 0164 UEC - 0168, 0172 Uher - 0154 Uniden - 0415 Unisat - 0026, 0036, 0153, 0391, 0401 Unitor - 0027, 0035 Universum - 0033, 0152, 0155, 0159, 0161, 0388, 0404, 0415, 0421 Unnisat - 0369 Vantage - 0370 Variosat - 0033, 0155, 0388 Vector - 0042 Vega - 0010 Ventana - 0054, 0391 Vestel - 0421 Via Digital - 0057 Viasat - 0173, 0371 Viewstar - 0372 Vision - 0373 Visionic - 0170 Visiosat - 0035, 0040, 0163, 0164, 0418 Viva - 0392 Vivanco - 0064 Vivid - 0172 Vortec - 0019, 0374, 0393 VTech - 0031, 0165, 0397, 0418, 0423 Watson - 0375 Wela - 0410 Welltech - 0154 WeTeKom - 0154, 0158, 0160 Wevasat - 0020 Wewa - 0020 Winersat - 0035, 0398 Wintergarten - 0395 Wisi - 0020, 0031, 0032, 0033, 0155, 0158, 0161, 0388, 0397, 0403, 0410, 0418 Woorisat - 0024 World - 0398 Worldsat - 0163, 0376 Xcom Multimedia - 0186 Xoro - 0377 Xrypton - 0010, 0402 XSat - 0164, 0173 Zaunkonig - 0419

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Zehnder - 0010, 0024, 0027, 0028, 0047, 0105, 0107, 0152, 0165, 0397, 0402, 0421, 0423

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Zenith - 0167 Zinwell - 0071 Zodiac - 0023, 0412 Zwergnase - 0026

HTS - Home Theatre System Amplifier HTS codes

Philips - 0000, 0001, 0002, 0003, 0009, 0011, 0022, 0029, 0030, 0031, 0032, 0039, 0044, 0046, 0118, 0119, 0120, 0130, 0131, 0132, 0133, 0137, 0144, 0145, 0146, 0147, 0148, 0189, 0219, 0220 Aiwa - 0006, 0025, 0160, 0161, 0221, 0222, 0227, 0247, 0248 Akai - 0259, 0260 Alba - 0171 AMW - 0069 Andersson - 0070 Basic Line - 0071 BOSE - 0067, 0068, 0072, 0073, 0074, 0075, 0076, 0077 Bush - 0051, 0261, 0262, 0263 Celestron - 0078 Centrum - 0079 Clatronic - 0080 Daewoo - 0060 Daytek - 0081 Denon - 0126, 0127, 0128, 0129, 0138, 0139, 0264, 0265, 0266 Denver - 0156, 0157, 0176, 0177 Digix Media - 0082 DK Digital - 0007 Dmtech - 0083 Dual - 0084 Eltax - 0004, 0081 Euroline - 0085 Finlux - 0086 Fintec - 0087 Futronic - 0088 Goodmans - 0174, 0175, 0267, 0268 Harman/Kardon - 0064 Hitachi - 0024, 0166, 0167, 0168 Hyundai - 0089 Ínfotech - 0090 Jamo - 0091 JBL - 0092 JVC - 0008, 0016, 0020, 0050, 0123, 0124, 0125, 0187, 0188, 0190, 0191, 0209, 0210, 0223, 0224, 0225, 0236 KEF - 0093 Kenwood - 0019, 0094, 0164, 0165, 0213, 0214, 0243, 0244, 0249, 0250, 0251 Lenoxx - 0095 LG - 0026, 0041, 0042, 0043, 0048, 0049, 0062, 0065, 0169, 0170, 0178, 0179, 0180, 0181 Linn - 0096 Loewe - 0097 Lumatron - 0098 Magnavox - 0011, 0118, 0132

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MiCO - 0100 Mivoc - 0101 Mustek - 0013 NAD - 0102 Nakamichi - 0103 Palladium - 0104 Panasonic - 0005, 0010, 0012, 0020, 0021, 0033, 0034, 0035, 0036, 0037, 0053, 0054, 0063, 0141, 0142, 0143, 0217, 0218, 0228, 0229, 0240, 0241 peeKTON - 0105 Pioneer - 0027, 0045, 0047, 0153, 0154, 0155, 0200, 0201, 0256 Redstar - 0106 Saba - 0172, 0173 Samsung - 0018, 0056, 0057, 0061, 0158, 0159 Sansui - 0085 Sanyo - 0015, 0017, 0149, 0150, 0151, 0246 Sharp - 0134, 0135, 0136, 0194, 0195, 0196, 0213, 0214, 0234, 0235 Sony - 0006, 0014, 0023, 0038, 0040, 0113, 0114, 0115, 0116, 0117, 0152, 0182, 0183, 0184, 0185, 0186, 0197, 0202, 0203, 0204, 0205, 0206, 0207, 0208, 0215, 0216, 0230, 0237, 0238, 0239, 0242, 0245, 0253, 0254, 0255 T+A - 0107 TCM - 0111, 0273, 0274, 0275, 0276 Teac - 0108, 0121, 0122, 0269, 0270, 0271, 0272 Technics - 0005, 0020, 0112, 0140, 0142, 0211, 0212, 0226 Thomson - 0055, 0059, 0152, 0192, 0193, 0197, 0198, 0199, 0231, 0232, 0233, 0252 Toshiba - 0058 Union - 0066 Universum - 0109 Xoro - 0110 Yamaha - 0028, 0052, 0162, 0163, 0257, 0258

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Medion - 0099

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2.1.4 Batteries

Open the battery cover on the back of the remote control to insert the 3 batteries supplied (Type AAA-LR03-1.5V).

Make sure the + and - ends of the batteries line up correctly (+ and - are marked inside).

Remove the batteries if you are not using the remote control for a long time.

Dispose of batteries according to the end of use directives. Read **1.1.7 End of use**.



2.2 Menus

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2.2.1 Channel overview

While watching TV, press **OK** to open the Channel overview. This overview shows the TV channels and possible radio stations installed on your TV.

Navigate to a channel or station with the \blacktriangle or \blacktriangledown , \blacktriangleleft or \blacktriangleright keys. Press **OK** to watch or listen to the selected channel or station.

Press **Back** to close the channel overview without changing the channel.



With the Channel overview on screen you can press **Options** (E) to access the following functions:

• Select list

Select which channels are shown in the Channel overview. When a filter is set in the Channel overview, press P+/- to go through the channels of the filtered overview, while watching TV.

• Mark as favourite

When a channel is highlighted in the Channel overview, you can set it as a favourite channel. Read **3.2 Favourite channels**.

Reorder

You can reposition channels within the overview.

- 1 Select **Reorder** in the **Options** immu to start reordering channels.
- 2 Highlight a channel and press OK.
- 3 Reposition the channel where you want it with the navigation keys.
- 4 Press **OK** to confirm the position.

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You can highlight another channel and do the same.

To stop Reorder, press **Options** (E) and select **Exit reorder**.

• Rename

You can rename a channel.

- 1 In the channel overview, navigate to the channel you want to rename.
- 2 Select Rename in the Options \blacksquare menu.
- 3 Use the navigation keys to position the highlight. Press **Back** → to delete a character. Use the remote control number pad as you do for SMS/text messaging to select a character. Use the **0** number key to select a special character. Select **Clear** to clear all text.
- 4 Select **Done** and press **OK** to end Rename.

Hide channel

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Select this option when you want to hide a channel in the Channel overview. When you hide a channel, it will be hidden next time you open the Channel overview.

To unhide hidden channels select the **Show** hidden channels from the **Options** (E) menu.

• Show hidden channels

You can show all channels, including all hidden channels. You can unhide or hide channels.

- 1 Select Show hidden channels from the Options (E) menu.
- 2 Navigate to a channel.
- 3 Press Options (and select Hide or Unhide channel.

You can navigate to another channel and do the same.

To exit the Show hidden channels view, select **Exit hidden channels** in the **Options (E)** menu. The overview is adapted the next time you open it.

2.2.2 Home

The Home menu lists the **activities** you can do with your TV.

Press to open the Home menu. To start an activity, highlight the desired item with the navigation keys and press **OK**. You can add an activity, always linked to a device, with the **Add your devices** item. To exit the Home menu, press again.

2.2.3 Add your devices

When you have connected a device to the TV, always add this device as an item in the Home menu. With this item in the Home menu, you can easily switch the TV to this device.

In the Home menu, select **Add your devices** and press **OK**. Follow the instructions on screen. The TV asks you to select the device and the connector to which the device is connected. From now on, this device is added to the Home menu.

To remove a device item from the Home menu, select the item, press **Options** (E) and select **Remove device** in the list, Press **OK**.

2.2.4 Setup

The Setup item in the Home menu holds most TV settings.

In the Setup menu you can ...

- set picture, sound or Ambilight settings
- set some special feature
- update or re-install TV channels
- connect to a network
- update the TV software
- ...

In the Home menu, select **Setup** and press **OK**. Select an item with the ◀ or ►, ▲ or ▼ keys and press **OK**. To close the Setup menu, press **Back** .

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2.2.5 Options

The Options menu offers convenient settings related to what is on screen.

Press **Options** (E) in any circumstance to see which options are available.

To exit, press **Options (E)** again.



2.2.6 Guide 🔳

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You can view a list of scheduled TV programmes with the Guide menu (only for digital broadcast). Also, use the Guide key to view the list of your photos, music or videos from a connected PC network or USB memory device.

While watching TV, press **Guide III** to open the Programme guide, if this information is available.



When browsing your PC network or a USB memory device, press **Guide** (11) to show the content.

Read 3.3 Programme guide or 3.6 Multimedia.

2.3 Watch TV

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2.3.1 Switch TV channels

To switch TV channels, press P + or - on the remote control. You can use the number keys if you know the channel number.

To switch back to the previous viewed channel, press **Back** \frown .

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel as you would do for TV channels. Radio stations usually start from channel number 400 onwards.

Channel overview

While watching TV, press **OK** to open the Channel overview. Select the channel with the navigation keys and press **OK** to switch to the channel.

To close the channel overview without changing the channel, press **Back** \frown .

2.3.2 Programme info

When watching a digital TV channel, information on the current and next programme is available.

While watching TV, press **Info** i to open the programme information on the channel you are watching.

To close the programme information, press **Info** i again.

When the programme information is on screen, press **Options** (E) to access information on the quality of the digital channel you are watching.

2.3.3 Switch to standby
If the TV is on, press ① on the remote control to switch to standby.
The red standby indicator is on.
Although the TV consumes very little power when in standby, energy continues to be consumed.

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When the TV is not in use for an extended period of time, we advise to switch the TV off with the 0 key on the TV and to unplug the TV mains cord from the mains outlet.

If you can not locate your remote control and you want to switch the TV to Standby, press on the side of the TV. This switches off your TV. To switch the TV back on, press again.

2.3.4 Smart Settings

You can set the TV to the predefined setting that is best for what you're watching at the moment. Each setting combines picture, sound and Ambilight.

While watching TV, press **Options** and select **Picture and sound**. Press **OK**. Select **Smart settings** and press **OK**. Select a setting from the list and press **OK**.

- **Personal** Sets the TV to your personal preferences set in the Picture, Sound and Ambilight menus in the Setup menu.
- Vivid Rich and dynamic settings, ideal for daylight use.
- Standard Factory standard settings.
- Cinema Ideal settings for watching movies.
- Game Ideal settings for gaming.
- Energy saving with the most energy conscious settings.

2.3.5 Picture format

If black bars appear in the screen, adjust the picture format. Ideally change the picture format to a format that fills the screen.

While watching TV, press **Format (D)** to switch on the Picture format menu, select an available picture format and press **OK**.

If subtitles are hidden in a programme, press \blacktriangle to shift the picture upwards.

You can select the following picture format settings ...

Auto format

Enlarges the picture automatically to fill the screen. Minimal picture distortion, subtitles remain visible. Not fit for PC.

In the Setup > Picture > Auto format mode menu you can select 2 Auto format settings

- Auto-fill, to fill the screen as much as possible.
- Autozoom, to keep the original picture format, black bars may be visible.

Non-automatic picture formats are ...

Cinema 21:9

Sets the picture in cinema 21:9 format for original 21:9 movies.

- Cinema 21:9 subtitle Sets the picture in cinema 21:9 format but subtitles in the bottom black bar are visible.
- Super zoom Sets the picture in cinema 21:9 format with

minimal distortion for 16:9 broadcast.

Unscaled

- 4:3
- Only for PC. Sets the picture in 4:3 format. • 16:9
- Sets the picture in 16:9 format for HD 16:9 broadcast.
- Movie expand 16:9

Removes the top and bottom black bars from a 16:9 picture. Not fit for HD..

• Unscaled Only for PC and HD. Maximum sharpness, no distortion. Black bars may appear. ۲

[•] Super zoom 16:9 Sets the picture in 16:9 format with minimal distortion for 4:3 broadcast.

2.4 Use Ambilight

2.4.1 Ambilight on

With Ambilight, you will enjoy a more relaxed viewing experience and improved perceived picture quality.

Dim the lighting conditions in the room for the best Ambilight effect.

To switch Ambilight on or off, press **Ambilight** on the remote control.

Caution

To avoid bad infrared remote control reception, place your devices out of sight of Ambilight.

Dynamic speed

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To adjust the speed at which Ambilight responds to the onscreen images, press **Ambilight** for 3 seconds.

Adjust the dynamic speed with the onscreen slider bar.

- **Relaxed** sets Ambilight to change softly and smoothly.
- **Dynamic** sets Ambilight to change quickly and is more responsive.

To change the dynamic speed, Active mode needs to be set to a value greater than zero. Press \Rightarrow > Setup > Ambilight > Active mode.

2.4.2 Ambilight settings

In the Ambilight menu you can set or adjust the following Ambilight settings ...

While watching TV, press **•** > Setup > Ambilight.

Ambilight Switches Ambilight on or off.
Active mode

Adjusts the speed at which Ambilight responds to the onscreen images.

Brightness

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Changes the light output of Ambilight.

Colour

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- Sets the Ambilight colour to either dynamic behaviour (Active mode) or one of the predefined Ambilight constant colours.
- Custom allows fine tuning of a constant colour.
 Custom colour
- To set a Custom colour select **Custom** in Colour
- Separation Sets the difference in colour level between the lights at each side of the TV. Separation off gives a dynamic but uniform Ambilight colour.

2.4.3 LoungeLight

When the TV is in standby, you can switch Ambilight on and create an Ambilight LoungeLight effect in your room.

To switch Ambilight on while the TV is in standby, press **Ambilight** on the remote control. To change the LoungeLight colour scheme, press **Ambilight** for 3 seconds.

2.5 Watch a connected device

When you have added a connected device as an item to the Home menu, you can easily and directly select that device to watch its programme.

To add the device to the Home menu, read **2.2.3 Add your devices**.

To watch TV from a connected device, press and select the device item in the Home menu. Press **OK**.

If the connected device is not in the Home menu, select the device from the Source menu.

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2.6 Watch TV using a digital receiver

When you watch TV using a digital receiver, with a subscription from a cable or satellite company, connect the receiver and add the receiver to the Home menu.

To add the receiver to the Home menu, read **2.2.3 Add your devices**.

To watch the receiver programme, switch on the receiver. If the **receiver programme** does not appear automatically, press **a** and select the receiver item in the Home menu. Press **OK**.

Use the remote control of the digital receiver to select TV channels.

2.7 HTR9900 and BDP9100

2.7.1 Benefits

This Home Theatre Receiver and Blu-ray Disc Player combination brings you the cinematic experience at your home. Both devices and your Cinema 21:9 TV work together but need a specific setup.

2.7.2 Setup

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Before you start with these setup settings, connect the HTR and BDP to the TV, read **5.3.1 HTR9900 + BDP9100**.



- Add the HTR in the TV Home Menu Add the HTR as an item in the Home menu with Add your devices. While watching TV, press and select Add your devices and press OK. Follow the onscreen instructions to select the HTR and its connection.
- TV speakers
 For best surround sound performance, switch
 off the TV speakers, if they aren't switched off
 automatically.To switch off the TV speakers,
 press and select Setup > Sound > TV
 speakers > Off and press OK.
- Pixel Plus link
 You need to switch off the picture quality
 processing of the Blu-ray Disc player.

 Press
 and select Installation > Preferences
 Pixel Plus link and press OK.

 Select On to switch the BDP picture
 processing off.

• Audio sync

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On the Home Theatre Receiver set the Audio sync delay in the Main menu to 200ms. This setting syncronizes the sound with the processed picture on the TV.

Shift subtitle

Set the Blu-ray Disc player to the 21:9 TV display format to match the TV format. In the Blu-ray Disc player settings menu, select the video setup and look for the TV display formats. Read the BDP9100 user manual. If the 21:9 format is set, you can shift subtitles up from the bottom of the screen into the 21:9 picture to avoid black bars on screen.

2.7.3 Use the combination

Watch TV channels

In the TV Home menu, select **Watch TV** and press **OK**.

On the HTR remote control, press **Source -TV** until you hear the sound of the TV. You can control the volume and the surround sound with the HTR remote control.

To switch TV channels, press $\mathbf{P} + \mathbf{I}$ - on the TV remote control.

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• Watch a Blu-ray Disc movie In the TV Home menu, select Home Theatre

System and press OK.

On the HTR remote control, press **Source - Blu-ray player**.

If subtitles are shown in black bars underneath the picture, you can shift the subtitles up into the picture to avoid black bars on screen. To do this, you need to set up the Blu-ray Disc player TV display format to 21:9 first. Read **2.7.1 Shift subtitle** or read the BDP user manual.

To shift subtitles, do the following ... On the Blu-ray Disc remote control, press **Options** and select **Shift subtitle** and press **OK**.

Now, you can shift the subtitles up into the picture with \blacktriangle or \blacktriangledown . After a while the TV switches to full 21:9 format without black bars.

• Watch another connected device In the TV Home menu, select Home Theatre System and press OK. On the HTR remote control, press the appropriate Source key for the connected device.

2.7.4 Use the universal RC

You can set up the TV remote control to operate the volume of the Home Theatre Receiver. Also, you can set up the TV remote control to operate basic Blu-ray Disc functions.

• Use the HTS and DVD Universal mode keys When these keys are set up, press HTS to operate the Home Theatre Receiver or press DVD to operate the Blu-ray Disc Player. As long as the key flashes, you can operate the device.

• Use the universal RC

Setup the HTS and DVD Universal mode keys

To set the TV remote control to operate both devices, enter the specific RC code for the HTS and DVD Universal mode keys. Enter RC code 0001 for the HTS key to operate the HTR9900. Enter RC code 0003 for the DVD key to operate the BDP9100.

Enter an RC code

- Press the Universal mode key you want to set up, HTS or DVD and press this key together with the OK key for 4 seconds simultaneously. All 4 keys light up for 1 second and the key you are setting stays lit.
- 2 Enter the 4-number RC code, 0001 for HTS or 0003 for DVD.
- 3 If the code is accepted, all 4 keys blink 3 times and the Universal mode key is set up.

For more on Universal remote control, read chapter **2.1.2 Universal remote control**.

2.8 Net TV

2.8.1 Benefits

NetTV offers Internet services and websites tailored for yourTV. Use the TV remote control to browse the NetTV Internet pages. You can play movies, view pictures or listen to music, consult infotainment, play games and much more, all set up for yourTV screen.

Specifics

- Because Net TV is an online system, it can be modified over time to better serve its purpose.
- Some Net TV services can be added, changed or stopped after some time
- Net TV shows pages full screen and 1 page at a time.
- You cannot download and save files nor install plug-ins.

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2.8.2 What you need

To enjoy NetTV, you need to connect the TV to a router with a high speed connection to the Internet.

Read chapter 4.3 Network.

Once the connection is made, select **Net TV** in the Home menu to start the Net TV onscreen setup.

Read chapter 2.8.3 First use.





2.8.3 First use

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The first time you link up to NetTV, theTV asks you to agree on the Terms of Use. When you agree on these terms, the TV asks you to register for NetTV. After registration, you can switch on the Parental control setting.

Registration benefits

When you have registered for Net TV, the pages you select as favourite pages or as locked pages are stored as back-up. Also, the last 16 web addresses (URLs) you visited are stored. You can share these same selections with another Net TV television if you register that TV with the same email address. When registered, you can restore these same selections after an accidental reset of Net TV with Clear history.

How to register

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To register, you need an email address and a PC connected to the Internet. If you skip the registration at first use, you can register from the Net TV start page later on.

To start the NetTV registration, you need to enter your email address on the TV screen. Use the keypad on the remote control as you do for SMS/text messaging to enter the address. Select **Register** and press **OK**.

A message will show if a registration email has been sent to your email address. Open the email on your PC and click the link to the registration form. Complete the form and click the button to submit.

On the TV, select **OK** and press **OK** to open the Net TV start page.

Parental control benefits

- With Parental control switched on ...you can lock and unlock services and/or categories of services
- some services unsuitable for children are locked from the start but can be unlocked

Specifics

- Only services on the Net TV pages can be locked. Advertisements and open Internet websites can not be locked.
- Services are locked per country. Categories are locked for all countries.

Switch on Parental control

The first time you open the NetTV start page, the TV asks you to switch on the Parental control. If you switch on Parental control, the TV asks you to enter a personal lock/unlock code. Enter a 4 digit code as NetTV lock/unlock code. Use the number keys on the remote control. Enter the same code again to confirm.

Net TV is ready to use.

2.8.4 Browse Net TV

To browse Net TV, press **Net TV** on the remote control or select **Browse Net TV** in the Home menu and press **OK**. The TV links up to Net TV and opens the start page.

To exit Net TV, press **Net TV** again or press **and** select another activity.



The Net TV start page

The Net TV start page shows your favourite services and some recommended services. You can browse Net TV from this page.

Select a Net TV service with the ▲ or ▼, ◀ or ▶ keys.To open a service, press OK. Press Back つ to go back one page. Press Net TV to return to the Net TV start page.

The Browse all page

The Browse all page holds all services. On the Browse all page, you can view the Net **TV services** by category. Select a category and press **OK**.

Browse another country

On the Browse all page you can switch the Net TV country. Another country might have different services.

Select **Browse:** ..., select another country and press **OK**.

Mark favourites

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You can mark up to 12 favourite services. To mark a service as a favourite, select the service icon and press **Options** (E). Select **Mark favourite** and press **OK**.

All your favourite services are shown in the Net TV start page. In the Browse all page favourite services are marked with a star \bigstar .

Use the Options menu to unmark.

To mark several services as favourites in one go, select **Mark favourites** on the Net TV start page or **Browse all page** and press **OK**. Now you can select services and mark them one by one, with **OK**. You can switch to the Browse all page if necessary. To end the Mark favourites mode, select **Done** and press **OK**.

Only Net TV services can be marked as favourite. Advertisements and open Internet websites can not be marked.

Open Internet websites

With Net TV you can link up to the open Internet. You can view any website you like but remember that most open Internet websites are not tailored to be viewed on a TV screen and certain necessary plug-ins (e.g. to view pages or videos) are not available on your TV.

Enter open Internet

On the Browse all page, select **Browse Internet** and press **OK**. On the onscreen keyboard you can enter the web address you like. Select a character and press **OK** to enter the address.

Use the \blacktriangle or \blacktriangledown , \blacktriangleleft or \blacktriangleright keys to navigate to the available links on an open Internet page, press **OK** to go to the link.

Scrolling open Internet pages

Use the P+ and -]to scroll pages up or down.

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Zoom open Internet pages

You can zoom open Internet in or out. Press Format 🕞.

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Use the arrows up or down to zoom in or out.



Clear history

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You can clear the Net TV memory. To clear the Parental control code, passwords, cookies and history, press - Setup > Installation > Clear Net TV memory.

Koninklijke Philips Electronics N.V. bears no responsibility regarding the content and the quality of the content provided by the content service providers.

2.8.5 Net TV - TV guide

The moment you link up with Net TV, the TV programme guide information comes from the Internet. However, you can switch back to programme guide information from the digital broadcaster.

Press **•** > Setup > Installation > Preferences > Programme guide and select From broadcaster.

In both cases, Philips is not responsible for the programme guide information.

2.8.6 Parental control

With **Net TV Parental control** you can lock Net TV services and service categories. When a service is locked, you need to enter a code to open the service or category.

To lock a service, Parental control needs to be switched on. Parental control is switched on when a lock icon appears when you link up with Net TV.

Switch on Parental control

If you did not switch on Parental control yet, press **Net TV**. When the Net TV start page is onscreen, press **Options** (E) and select **Enable parental control**. The TV asks you to enter a personal lock/unlock code. Enter a 4 digit code as lock/unlock code. Use the number keys on the remote control. Enter the same code again to confirm.

Lock a service or category

On the Net TV start page or Browse all page, select a service or category. Press **Options** (E), select **Lock service** and press **OK**. The service is locked when a lock symbol appears on top of the service icon.

Unlock

To unlock a service or category, select the service and press **Options** (E) and select **Remove lock**.

Specifics

- Only services on the Net TV pages can be locked. Advertisements and open Internet websites can not be locked.
- Services are locked per country. Categories are locked for all countries.
- The Net TV Parental control code and the Child lock code of the TV are 2 different codes.
- When you have registered Net TV and you switch off Parental control in the Options menu, all locks are remembered and available again when you switch Parental control back on.

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Did you forget your code ?

If you forgot your Parental control code, you can clear the NetTV memory and enter a new code.

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Read chapter 2.8.7 Clear history.

2.8.7 Clear history Warning

If you clear the NetTV memory with **Clear history**, you need to redo the first use registration when you link up to NetTV again. If you have registered before, you can restore your former favourite services and former locks.

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3 More on ...

3.1 Teletext

3.1.1 Select a teletext page

Most TV channels broadcast information through teletext.

While watching TV, press **Teletext**. To exit teletext, press **Teletext** again.

To select a page ...

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- Enter the page number with the number keys.
- Press **P** +/- or ▲ or ▼ or ⁺⊃ to view the next or the previous page.
- Press a colour key to select a colour-coded item at the bottom of the screen.

3.1.2 Select a teletext language

Some digital TV broadcasters have several teletext languages available. You can set your primary and secondary language.

Press **A** > Setup > Installation > Languages > Primary or Secondary teletext and select your preferred teletext languages.

3.1.3 Select teletext subpages

A teletext page number can hold several subpages.

The pages are shown on a bar next to the main page number.

Use ◀ or ► to select the subpages when they are available on a teletext page.

3.1.4 Select T.O.P. teletext

You can easily jump from one subject to another without using page numbers with T.O.P. teletext. Not all channels broadcast T.O.P. teletext.

Press Info i when teletext is switched on. The T.O.P. overview appears. Select a subject and press OK to view the page.



3.1.5 Search teletext

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In teletext, you can quickly jump to a subject linked to a series of page numbers. Also, you can search for specific words in teletext pages.

Switch on teletext and press **OK**. The first word or first index number of the page is highlighted onscreen.

Jump to the next word or number on the page with \blacktriangleleft or \blacktriangleright , \blacktriangle or \blacktriangledown .

Press **OK** to search for a page featuring the highlighted word or number.

Each time you press $\mathbf{OK},$ the next page featuring the highlighted word or number is shown.

To exit **Search**, press \blacktriangle until no word or number is highlighted.

3.1.6 Teletext options

When in teletext, press **Options** (E) on the remote control to reveal hidden info, let subpages cycle automatically, change the character setting, freeze a teletext page, view the TV channel and teletext simultaneously or show a teletext page full screen again.

Freeze page

Stop the automatic rotation of subpages or stop the page counter when you have entered a wrong page number or when the page is not available.

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Dual screen / Full screen

Not available for channels with Digital Text services.

Select **Dual screen** to view the TV channel and teletext alongside each other. Select the option **Full screen** to show full screen teletext again.

Reveal

Hide or unhide hidden information on a page, such as solutions to riddles or puzzles.

Cycle subpages

If subpages are available for the selected page, you can make subpages cycle automatically.

Language

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Some languages use a different set of characters. Switch to the other character group to show the text correctly.

Enlarge teletext page

You can enlarge the teletext page for more comfortable reading.

In teletext, press to enlarge the top part of the page and again to view the enlarged lower part of the page. With \blacktriangle or \checkmark you can scroll through the enlarged page.

Press 🗊]again to return to the normal page size.

3.1.7 Digital text (UK only)

Some digital TV broadcasters offer dedicated digital text or interactive services on their digital TV channels, for example BBC1. These services include normal teletext with the number, colour and navigation keys to select and navigate.

While watching TV, press **Teletext** and navigate to select or highlight items.

Use the colour keys to select an option and press **OK** to confirm or activate. Press ■ to cancel Digital text or interactive services. Digital text services are blocked when subtitles are broadcast and **Subtitle On** is set in the Features menu. Read **3.5.1 Subtitles**.

3.1.8 Teletext 2.5

Teletext 2.5 offers more colours and better graphics, if broadcast by the TV channel. Teletext 2.5 is activated as a standard factory setting.

To switch it off press **•** > Setup > Installation > Preferences > Teletext 2.5.

3.2 Favourite channels

After you have finished the installation, all TV and radio channels are added to the Channel overview.

In this overview, you can mark channels as favourites and set the Channel overview to only show these favourites.

While watching TV, press OK to open the Channel overview. With a channel highlighted, press Options E. Select Mark as favourite to make the highlighted channel a favourite channel. Favourite channels are marked with a ★. Unmark the channel as favourite with Unmark favourite.

Select list

With the **Select list** option in the Channel overview, you can set the overview to show only your favourite channels. Read **2.2.1 Channel overview**.

3.3 Programme guide

3.3.1 Switch on

The Programme guide is an onscreen guide of scheduled TV programmes. This guide is provided by the broadcasters or Net TV. You can set a reminder to show a message when a programme starts or select programmes by genre.

While watching TV, press **Guide (III)** to open the Programme guide. If available, a list of the current TV programmes appears. It may take some time to load this information.

To exit the Programme guide, press Guide III.



Navigate through the list to select a programme.

Info i

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To open the programme details and summary, press Info (i).

To show a message onscreen when the programme starts, select **Set reminder** and press **OK**. The programme is marked with **•**. To cancel the message, select **Clear reminder** and press **OK**. To switch to the TV channel of the programme directly, select **Watch channel** and press **OK**.

Options 🗉

In the Programme guide list, press **Options** (E) to select the following ...

- Set reminder
 - If a reminder is set, the option **Scheduled reminders** is available with a list of all reminders.

- Change day View the previous or next day's programmes.
- More info Opens the info screen with details and a summary of the programme.
- Search by genre View all programmes by genre. Select a programme and press Info i for more info or to set a reminder.
- List of preferred programmes Set channels to appear in the Programme guide list (max. 50 channels).

3.3.2 Setup

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To select where the Programme guide information comes from, press -> Setup > Installation > Preferences > Programme guide.

Automatic

Until you link up with NetTV, guide information comes from the broadcaster. **Automatic** will switch to the Internet for guide information as soon as the TV is connected to NetTV.

Broadcaster

Guide information comes from the channel broadcaster.

3.4 Timers and locks

3.4.1 Sleeptimer

With Sleeptimer you can switch the TV to standby or out of standby at a specified time. Press • > Setup > Features > Sleeptimer. With the Sleeptimer slider bar you can set the time up to 180 minutes in steps of 5 minutes. If set to 0 minutes, Sleeptimer is switched off.

You can always switch off yourTV earlier or reset the time during countdown.

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3.4.2 Child lock

To prevent children from watching TV, you can lock the TV or block age rated programmes.

Set your personal code

Before you set Child lock to lock the TV or set an age rating, set your personal lock code in \clubsuit > Setup > Features > Set code. Enter the fournumber code with the number keys. You can always change the code if necessary.

Lock

Select **Lock** as Child lock setting, to lock all TV channels and the programmes from devices. When Lock is set, you need to enter your personal code to unlock the TV.

The lock is activated the moment you close the menu on screen or set the TV in standby.

Parental rating

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Select **Parental rating** as Child lock setting, so that an age can be set in the Parental rating age list. Set the age of your child. Programmes with an equal or higher rating will be blocked. To set an age rating in this list, read **3.4.3 Age rating**.

Did you forget your code ?

Select **Change code**, press ► and enter the overriding code **8888**.

Enter a new personal code and confirm. The previous code is erased and the new code is stored.

3.4.3 Age rating

Some digital broadcasters, depending on your country, have their programmes rated. When the rating is equal or higher than the rating you have set for your child's age, the programme will be blocked.

To set an age rating, press **•** > Setup > Features > Child lock and select Parental rating.

With Parental rating selected in Child lock go to Setup > Features > Parental rating and select the age rating for programmes that are allowed to be viewed.

A programme with a higher age rating will be blocked and the TV will ask for the Lock code to unblock the programme.

Age rating is activated the moment you close the menu on screen or set the TV in standby. Read **3.4.2 Child lock**.

3.5 Subtitles and languages

3.5.1 Subtitles

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Programme subtitles are available most of the time. You can set subtitles to display constantly. Depending on the channel, an analogue or digital channel, a different method is used to set constant subtitles.

For analogue channels

To have subtitles constantly onscreen, select an analogue TV channel and press **Teletext** to switch on teletext.

Enter the three number page number of the subtitles page, usually 888, and press **Teletext** again to switch off teletext. Subtitles will show if available.

Each analogue channel needs to be set separately.

Subtitle menu

To switch subtitles on constantly, press **Subtitle**. Select **Off**, **On** or **On during mute**. With **On during mute**, the TV displays subtitles only when the sound is muted with **K**.



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For **digital channels**, a preferred subtitle language can be set.

Digital channel subtitle languages

If subtitles are available on digital channels, you can select a preferred subtitle language from a list of broadcast languages.

Press **1** > Setup > Features > Subtitle language.

Select a subtitle language from the list of available languages and press **OK**.

The preferred subtitle languages set in the Installation menu are overruled temporarily.

3.5.2 Audio languages

Digital TV channels can broadcast several audio languages that go with the programme. You can set your preferred languages to switch to when these audio languages are broadcast.

To set your preferred audio languages, press > Setup > Installation > Languages > Primary language. You can also set a secondary language in the same Languages menu.

The TV will automatically switch to the languages you set, if the language is broadcast.

To check if an audio language is available, press Options (E) and select Audio language. You can select another audio language from the list.

Some digital TV channels broadcast special audio and subtitles adapted for people that are hearing or visually impaired. Read **3.7 Universal access**.

3.6 Multimedia

3.6.1 Browse USB

Watch photos or play music and videos on TV from a **USB** memory device.

Insert a USB device in the $\ensuremath{\text{USB}}$ connector on the left hand side of the TV while the TV is switched on.

The TV detects the device and opens a list showing the content of the USB device onscreen. If the content does not show, press \triangle > **Browse USB** and press **OK**.

While the USB content list is open onscreen, select the file you want to play and press OK or play $\blacktriangleright II$.

A song, a slideshow of photos or a video starts playing.

To pause, press **P** again.

To jump to the next file, press \blacktriangleright or **P** +. To jump to the previous file, press \triangleleft or **P** -.

To fast forward a music file, press \blacktriangleright .

Press Options (E) to Play once, Repeat, Shuffle, Rotate and much more.

Watch videos

Select a video in the Guide menu and press play **>II**.

To pause the video, press pause ►**II**. To fast forward, press ►> once to go slow, press twice to go fast. Press again for normal speed.

Press Options (E) to change to Full screen, Small screen, Play once, etc.

To exit Browse USB, press $\textcircled{\begin{tabular}{ll}}$ and select another activity or disconnect the USB memory device.

3.6.2 Browse PC Network

Watch photos or play music and videos on TV from a PC or another storage device in your home network.

To browse your PC network, first set up the network connection, read **4.3 Network**. If the network is not installed the first time you try to Browse PC network, the Network installation starts. Follow the instructions on screen. $(\mathbf{\Phi})$

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PC Network

Press **1**, select **Browse PC network** in the Home menu and press **OK**.

With the PC and router switched on, the TV displays the multimedia server content from your PC.

With the PC content list open on screen, select the file you want to play and press **OK** or play **>II**.

A song, a slideshow of photos or a video starts playing.

To pause, press ▶∎again.

To jump to the next file, press \blacktriangleright or **P** +.

To jump to the previous file, press ◀ or ►II. To fast forward a music file, press ►.

Press Options (E) to Play once, Repeat, Shuffle, Rotate and much more.

Watch videos

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Select a video in the Guide menu and press play **>II**.

To pause the video, press pause ►**II**. To fast forward, press ► once to go slow, press twice to go fast. Press again for normal speed.

Press Options (E) to change to Full screen, Small screen, Play once, etc.

To exit the PC network, press 📤 and select another activity.

3.7 Universal access

3.7.1 Hearing impaired

Some digital TV channels broadcast special audio and subtitles adapted for people who are hearing impaired.

To switch on hearing impaired audio and subtitles, press **•** > Setup > Installation > Languages > Hearing impaired. Select On and press OK. The TV switches to hearing impaired audio and subtitles, if available. To verify whether a hearing impaired audio language is available, press **Options (E)**, select **Audio language** and look for an audio language with an ear icon.

3.7.2 Visually impaired

Some digital TV channels broadcast special audio adapted for people who are visually impaired. The normal audio is mixed with extra commentary.

To switch on visually impaired audio, press Options while watching the digital TV channel and select Visually impaired. Select On and press OK. The TV switches to visually impaired audio, if available.

In the Options menu, you can set the visually impaired audio to be heard from the **Speakers**, the **Headphones only** or from both **Speakers and headphones**.

Also in the Options menu, select **Volume -Visually impaired** to change the volume of the extra commentary.

To verify whether a visually impaired audio language is available, press **Options** and select **Audio language** and look for an audio language with an eye icon.



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4 Setup

4.1 Picture, Sound, Ambilight

4.1.1 Smart settings

You can set the TV to the predefined setting that is best for what you're watching at the moment. Each setting combines picture, sound and Ambilight.

While watching TV, press **Options** and select **Picture and sound**. Press **OK**.

Select Smart settings and press OK.

Select a setting from the list and press OK.

Personal

Sets the TV to your personal preferences set in the Picture, Sound and Ambilight menus in Setup.

Vivid

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- Rich and dynamic settings, ideal for daylight use. • Standard
- Factory standard settings.
- Cinema
- Ideal settings for watching movies.
- Game Ideal settings for gaming
- Energy saving
- With the most energy conscious settings.

4.1.2 Picture

In the Picture menu, you can adjust all picture settings individually.

Press **1** > Setup > Picture.

Use ◀ or ▶, ▲ or ▼ to select and adjust a setting. Press **OK** to activate a setting.

• Settings assistant

Start the Settings assistant to guide you through basic picture settings easily. Follow the instructions on screen.

Contrast

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Changes the level of brightness in the picture but the level of darkness remains the same.

- Brightness
 - Changes the level of light in the whole picture. **Colour**
 - Changes the level of saturation.
- Hue

If NTSC is broadcast, this level compensates the colour variations.

Sharpness

Changes the level of sharpness of fine details.

- Noise reduction Filters out and reduces the noise in the picture. Set levels to Minimum, Medium, Maximum or
- Off. • Tint
 - Sets the colours to **Normal**, **Warm** or **Cool** (bluish). Select **Custom** to make your own personal settings in the Custom menu.
- Custom tint

Use a slider bar to change the colour temperature of the picture ...

- R-WP red whitepoint
- G-WP green whitepoint
- B-WP blue whitepoint
- R-BL red blacklevel
- G-BL green blacklevel
- Perfect Pixel HD

Controls the advanced settings of the Perfect Pixel HD Engine.

- HD Natural Motion

Removes motion judder and reproduces smooth movement, especially in movies.

- 200 Hz Clear LCD

Gives a 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

Sets the level at which the TV automatically enhances the details in the dark, middle and light areas of the picture.





- Dynamic backlight

Sets the level at which power consumption can be reduced by dimming the brightness intensity of the screen. Choose for the best power consumption or for the picture with the best brightness intensity

- MPEG artefact reduction

Smooths the digital transitions in the picture. - **Colour enhancement**

Makes the colours more vivid and improves the resolution of details in bright colours

• PC mode

Sets the TV to the ideal predefined computer setting in case a computer has been connected.

Light sensor

Adjusts the picture and Ambilight settings automatically to the lighting conditions of the room. Switches the Light sensor on or off.

• Picture format / auto format mode Read 2.3.5 Picture format.

• **Picture shift** To shift the picture vertically on the screen with the cursor keys.

4.1.3 Sound

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In the Sound menu you can adjust all sound settings individually.

Press 合 > Setup > Sound.

Use ◀ or ▶, ▲ or ▼ to select and adjust a setting. Press **OK** to activate a setting.

• Bass

Changes the low tones of the sound. Select each bar to change the setting.

Treble

Changes the high tones of the sound. Use each slider bar to change the setting.

Volume

Changes the volume.

If you do not want the volume bar to appear, press > Setup > Installation > Preferences > Volume bar. Select Off and press OK.

• Volume — visually impaired Changes the volume of the selected visually impaired audio language. (Only for UK.)

Audio language

Shows the list of broadcast audio languages of digital TV channels.

You can set your preferred audio language in
> Setup > Installation > Languages > Primary audio.

- Dual I/II
- If broadcast is available, you can choose between two different languages.
- Mono/stereo If stereo broadcasting is available, you can select Mono or Stereo for each TV channel.
- TV speakers

If you have an audio system connected to your TV, you can switch off the TV speakers. If your audio system supports EasyLink, read **5.5.1 EasyLink**.

Select **Automatic (EasyLink)** to have the sound from yourTV automatically reproduced by your audio system.

• Surround Switches the TV automatically to the best surround sound mode dependant on the broadcast. Select **On** or **Off**.

Headphones volume

Changes the volume of the headphones. You can mute the TV speakers with \mathbf{k} .

Delta volume

Levels out volume differences between channels or connected devices. First, switch to the channel or device whose volume difference you want to level out.

• Balance Sets the balance of the left and right

loudspeakers to best fit your listening position. • Auto volume levelling

Reduces sudden volume differences like at the beginning of commercials or when switching from one channel to another. Select **On** or **Off**.

4.1.4 Ambilight

In the Ambilight menu, you can adjust all Ambilight settings individually.

Press **a** > Setup > Ambilight.

Use ◀ or ►, ▲ or ▼ to select and adjust a setting. Press OK to activate a setting. For more on Ambilight, read **2.4 Use Ambilight**.

4.1.5 Factory settings

You can return to the original factory settings. Only picture, sound and Ambilight settings will be reset.

Press **A** > Setup > Installation > Factory reset and press OK.

4.2 Channels

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4.2.1 Reorder and rename

After the first installation, you might want to reorder or rename installed channels. Organise TV channels in the Channel overview according to your own preference or give them a recognisable name.

While watching TV, press **OK** to open the Channel overview. The Channel overview shows the TV channels and radio stations installed on your TV.

To reorder or rename, press **Options** and select the option you need.

Reorder

You can reposition channels within the overview.

- 1 Select **Reorder** in the **Options** immenu to start reordering channels.
- 2 Highlight a channel and press OK.
- 3 Reposition the channel where you want it with the navigation keys.
- 4 Press **OK** to confirm the position. You can highlight another channel and do the same.

To stop Reorder, press **Options** (E) and select **Exit reorder**.

Rename

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You can rename a channel.

- 1 In the channel overview, navigate to the channel you want to rename.
- 2 Select **Rename** in the **Options (E)** menu.
- 3 Use the navigation keys to position the highlight. Press **Back** → to delete a character. Use the remote control number pad as you do for SMS/text messaging to select a character. Use the **0** number key to select a special character. Select **Clear** to clear all text.

4 Select **Done** and press **OK** to end Rename.

4.2.2 Update channels

When the TV was switched on for the first time, a full installation of channels was performed. You can set the TV to add or remove digital channels automatically. You can also manually start the channel update.

Automatic update

To set the TV to update digital TV channels automatically, leave the TV in standby mode. Once a day, at 6 AM, the TV updates earlier found channels and stores new channels. Empty channels are removed from the Channel overview. If a channel update has been performed, a

message shows at TV start up.

If you do not want this message to appear, select No in \clubsuit > Setup > Installation > Channel installation > Channel update message.

Manual update

To update channels yourself at any time, press • > Setup > Installation > Channel installation > Automatic installation and press OK

Start the update and select **Update Channels**. The update may take a few minutes.

4.2.3 Reinstall channels

When the TV was switched on for the first time, a full installation of channels was performed. You can redo this full installation all over again to set your language, country and install all available TV channels.

Full installation

To reinstall the TV, press • Setup > Installation > Channel installation > Automatic installation and press OK.

Start the installation and select **Reinstall channels**. The update may take a few minutes. To reorder or rename found channels, read

4.2.1 Reorder and rename.

4.2.4 Reception quality

Digital reception quality

If you receive digital TV broadcasting (DVB) from your own antenna (DVB-T) or use the TV tuner to receive digital cable channels (DVB-C), you can verify the quality and signal strength of a channel.

If the reception is poor, you can reposition your antenna to try to improve the reception. For best results, contact a specialised antenna installer. To verify the reception quality of such a digital channel, select the channel, press > Setup > Installation > Channel installation > Reception test > Search and press OK.

The digital frequency is shown for this channel. If the reception is poor, you can reposition your antenna. Select **Search** and press **OK** to verify the signal quality of this frequency again.

You can enter a specific digital frequency yourself. Select the frequency, position the arrows on a number with \blacktriangleright and \blacktriangleleft and change the number with \blacktriangle and \blacktriangledown . Press **Search** to verify this frequency.

If you receive the channel with DVB-C, the options **Symbol rate mode** and **Symbol rate** are shown.

For Symbol rate mode, select **Automatic** unless your cable provider supplies a specific symbol rate value. You can enter this supplied value in Symbol rate using the number keys.

4.2.5 Manual installation of analogue channels Analogue TV channels can be manually tuned-in channel by channel.

1 System

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If you have your own antenna, you need to select the country or part of the world where the TV channel comes from. If you receive TV channels via a cable system, you only need to select the country or part of the world once.

2 Find channel

Search for an analogue TV channel. The search starts automatically but you can manually enter a frequency. If the channel reception is bad, select **Search next** to search again.

Select **Done** and press **OK** if you want to store this TV channel.

3 Fine tune

Fine tune the found channel with \blacktriangle and \blacktriangledown . Press **Done** once the channel is fine tuned.

4 Store

A found channel can be stored on the current channel number with **Store current channel** or as a new channel number with **Store as new channel**.

4.2.6 Fine tune analogue channels

If the reception of an analogue TV channel is poor, you can try to fine tune the TV channel.

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To fine tune analogue channels, press 📤 > Setup > nstallation > Channel installation > Manual install - analogue > Fine tune.

Fine tune the channel with \blacktriangle and \blacktriangledown . Press **Done** once the channel is fine tuned. You can store this fine tuned channel on the current channel number with **Store current channel** or as a new channel number with **Store as new channel**.

4.2.7 DVB-T or DVB-C

If both DVB-T and DVB-C reception is available in your country, and this TV is prepared for both DVB-T and DVB-C for your country, you need to select DVB-T or DVB-C before you install TV channels.

To select DVB-T or DVB-C reception, press > Setup > Installation > Channel installation > Antenna/Cable DVB.

Select **Antenna** for a DVB-T installation. Select **Cable** for a DVB-C installation.

DVB-C channel installation

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All DVB-CTV settings are set to automatic but the DVB-C network might need some settings supplied by the DVB-C provider. Enter these settings or values when the TV asks for them.

You can install yourTV for DVB-T and DVB-C. In that case, you need to carry out two channel installations. First, carry out an installation with Antenna selected followed by an installation with Cable selected. Afterwards, the Channel overview will show both DVB-T and DVB-CTV channels.

4.2.8 Clock settings

In some countries, digital TV broadcasts do not send UTC — Coordinated Universal Time information. Therefore, winter and summer time changes might be ignored. You can correct this with the clock settings. If the TV shows the incorrect time, press > Setup > Installation > Clock > Auto clock mode and select Manual.

In the Daylight saving menu, select **Standard time** (winter) or **Daylight saving time** (summer) according to your local time.

4.3 Network

4.3.1 Benefits

If the TV is connected to your PC network, you can play photos, music and movies from a computer or storage device in that network. Once the network is installed, select **Browse PC network** in the Home menu to view the PC content.

Net TV

If the TV is connected to the PC network, which is connected to the Internet, you can link up your TV to Net TV. The Net TV start page offers you movies, pictures, music, infotainment, games and many more, all fit for your TV screen. Once the network is installed, select **Browse Net TV** in the Home menu or simply press **Net TV** on the remote control to open the Net TV start page.

4.3.2 What you need

To connect the TV to a PC network and Internet you need a router in your PC network. The router needs to be set to **DHCP On**.

To enjoy Net TV you need to connect the TV to a router with a high speed connection to the Internet.

The TV connection to the router can either be wired or wireless.

If you choose a wired connection to the router you need a network (Ethernet) cable.

TV Router PC



The PC network feature is **DLNA certified**. You can use Microsoft Windows XP or Vista, Intel Mac OSX or Linux on your computer.

To share PC content on your TV, you need recent media server software on your computer. A Windows Media Player 11 or similar. Some media server software needs to be set to

share files with the TV.

For the list of supported media server software, read **7.4 Multimedia**.

4.3.3 Wireless installation

The onscreen instructions help you to install the wireless network.

Switch on your router before you start the network installation. If your wireless network is secured, have the encryption key ready to enter onscreen.

To start the wireless network installation on the TV, press Setup > Installation > Network > Network installation and press OK. Follow the onscreen instructions.

Name and security

The TV scans for your network router. Found routers appear in a list on screen. If several routers are found, select your router in the list and press **OK**.

If the router name is unknown to you or you do not recognize your router's name, look up the SSID (Service Set Identifier) in the router software on your PC.

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When you have chosen your router, the TV asks for the encryption key -the security key- to access the router.

If you have WPA security on your router, enter the passphrase with the characters on the remote control. If you have WEP security, the TV asks for the WEP encryption key in hexadecimal numbers. Find this hexadecimal key in the router software on your PC. Write down the first key of the WEP keys list and enter it on TV with the remote control keypad. If the security key is accepted, the TV is

connected with the wireless router.

Next time you start the wireless network, there is no need to enter the security key. The TV uses the security key you entered in the installation. If asked for, agree to the End User License Agreement.

4.3.4 Wired installation

The onscreen procedure helps you to install the wired network.

Connect the router to the TV using a network cable and switch on the router before you start the network installation.

To start the wired network installation, press > Setup > Installation > Network > Network installation and press OK.

Follow the instructions on screen.

The TV constantly searches for a network connection.

If asked for, agree to the End User License Agreement. Find the latest End User License Agreement at www.philips.com.

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4.3.5 Network settings

The TV's network settings that are used to connect to your router are standard and set to automatic. This ensures easy connection with any available network.

If you have problems with the network connection, you might want to adjust the settings so that they are appropriate for your home network.

If you are unsure, ask someone with knowledge of network settings to help you.

To set specific network settings, press • > Setup > Installation > Network > Network mode and/or ... > IP configuration.

4.4 Other devices

4.4.1 Pixel Plus link

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Some other devices, DVD or Blu-ray Disc players, might have their own picture quality processing. To avoid bad picture quality from interference with the TV processing, the picture processing of these devices should be discarded. With Pixel Plus link you can discard this picture quality processing.

Press **a**nd select **Setup** > **Installation** > **Preferences** > **Pixel Plus link**. Select **On** to discard the picture processing from connected devices.

4.4.2 Audio sync

When a Home Theatre System is connected, the picture on your TV and the sound from the Home Theatre System should be syncronized. A mismatch is visible in scenes with people talking. When they finish sentences before their lips stop moving, you need to adjust the Audio sync delay on the Home Theatre System.

Consult the user manual of the Home Theatre System.

In case you cannot set this delay in the Home Theatre System or the maximum setting is insufficient, you can consider to switch off the HD Natural Motion picture processing of the TV. Press - Setup > Picture > Perfect Pixel HD > HD Natural Motion.

4.5 Software update

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4.5.1 From the Internet

In some cases, it might be necessary to update the TV software. 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.

Press **•** > Setup > Software update > Update now and press OK.

Select Internet and press OK.

Follow the instructions on screen.

When the update is done, the TV switches off and back on again automatically. Wait for the TV to switch back on; do not use the Power switch on the TV.

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

4.5.2 With a USB memory device

In some cases, it might be necessary to update the TV software. Start the software update on the TV.Then, download the TV software from the Internet onto your PC. Use a USB memory device to upload the software from your PC to the TV.

Preparation

You need a PC with a high speed Internet connection. You will need a USB memory device with 256 Mb free space and make sure that the write protection is switched off. Some USB memory devices might not work with the TV. ۲

1 Identification

Press **A** > Setup > Software update > Update now and press OK. Select USB and press OK.

Follow the onscreen instructions. The TV will ask to insert the USB device into the USB connector at the side of the TV.

2 **Download from PC to USB** Once the TV identification file is written to the USB device, insert the USB into your PC that is connected to the Internet. On the USB device, locate the file **update.htm** and double-click it. Click on **Send ID**. If new software is available it will download to the USB device.

3 Download from USB to TV

Insert the USB memory device back into the TV. Follow the onscreen instructions to start the new TV software update. The TV switches off for 10 seconds and back on again. Please wait.

Do not ...

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use the remote control
remove the USB device from the TV during the software update

If a power cut occurs during the update, never remove the USB memory device from the TV. When the power returns, the update continues. At the end of the update, the message **Operation successful** appears on screen. Remove the USB device and press 🕐 on the remote control.

Do not ...

- press 🕁 twice
- use the switch on the TV

The TV switches off (for 10 seconds) and back on again. Please wait. Now the new TV software update is finished You can use the TV again.

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5 Connections

5.1 First connections

5.1.1 Power cable

Make sure the power cable is securely inserted in the TV. Make sure that the power plug in the wall socket is accessible at all times.

When disconnecting the power cable, always pull the plug, never the cable.

Although this TV has a very low standby power consumption, unplug the power cable to save energy if you do not use the TV for a long time.



5.1.2 Antenna cable

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5.2 About cables

5.2.1 Cable quality

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Before you connect devices to the TV, verify which connectors are available on the device. Connect the device to the TV with the **highest quality connection** available. Good quality cables ensure a good transfer of picture and sound. The connections shown in this user manual are recommendations for the cases most used. Other solutions are possible.

Read more on specific cable types and available connections in **5.2.2 HDMI**... etc.

Add your devices

When you have connected a device to the TV, always add this device as an item in the Home menu. With this item in the Home menu, you can easily switch the TV to this device.

To add a new device, press **Add your devices**. Follow the instructions on screen.

5.2.2 HDMI

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An **HDMI connection** has the best picture and sound quality.

One HDMI cable combines video and audio signals.Use HDMI for High Definition (HD) TV signals.

An HDMI cable transfers picture and sound signals in only one direction, the opposite to a scart cable.

Do not use an HDMI cable longer than 5 m.



HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copy protection signal that comes with HD content (DVD disc or Blu-ray Disc).

DVI to HDMI

Use a DVI to HDMI adaptor if your device has only a DVI connection. Use one of the HDMI connectors and add an Audio L/R cable to DVI HDMI, Audio In L/R for sound, at the back of the TV.

EasyLink

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HDMI with EasyLink offers easy operating of your connected devices when these have the HDMI CEC standard.

Read 5.5 EasyLink HDMI-CEC.

5.2.3 YPbPr — Component video

Use the Component Video YPbPr connection together with an Audio Left and Right connection for sound.

Match the YPbPr connector colours with the cable plugs when you connect. YPbPr can handle High Definition (HD) TV signals.



5.2.4 Scart

A scart cable combines video and audio signals. Scart connectors can handle RGB video signals but cannot handle High Definition (HD) TV signals.



5.2.5 S-Video

Use an S-Video cable together with an Audio Left and Right (cinch) cable. Match the Audio connectors' colours with the

cable plugs when you connect.





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5.2.6 Video

Use a Video (cinch) cable together with an Audio Left and Right (cinch) cable.

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Match the Audio connectors' colours with the cable plugs when you connect.



5.2.7 VGA

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Use a VGA cable (DE15 connector) to connect a computer to the TV. With this connection you can use the TV as a computer monitor. You can add an Audio Left and Right cable for sound. Read **5.4.6 TV as PC monitor.**



5.3 Connect devices

5.3.1 HTR9900 + BDP9100

The HTR is the centre of the HTR, BDP and TV combination. As the HTR is the centre, connect all your audio and video devices (Digital receiver, Game console, ...) to the HTR, not to the TV.

When the HTR is connected to the TV, add the HTR as an item in the TV Home menu with Add your devices. While watching TV, press 📤 and select Add your devices and press OK. Follow the onscreen instructions to select the HTR and its connection.



First, connect your antenna to the TV Antenna connector.



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Then, use 2 HDMI cables to connect the BDP to the HTR and the HTR to the TV.



Finally, use a digital audio cable to connect the HTR to the TV.



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5.3.2 DVD player

Use an HDMI cable to connect the DVD player to an HDMI connector on the back of the TV.



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5.3.3 DVD Home Theatre System

First, use an HDMI cable to connect the device to the TV.



Finally, use a digital audio cinch cable to connect the device to the TV or alternatively, use the analogue Audio Out L/R.



If there is no digital audio output on the Home Theatre System, you can use the TV's analogue Audio Out L/R connection.

Audio and Video synchronisation

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If the sound does not match with the video on screen, you can set a delay on most DVD Home Theatre Systems to match the sound and video.

Do not connect the audio signal from a DVD player or other device directly to the Home Theatre System. Always lead the sound through the TV first.

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5.3.4 DVD Recorder

First, use 2 antenna cables to connect the antenna to the DVD Recorder and the TV.



Finally, use a scart cable to connect the DVD Recorder to a scart connector on the back of the TV.



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5.3.5 Digital receiver or Satellite receive

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First, use 2 antenna cables to connect the antenna to the receiver and the TV.



Finally, use a scart cable to connect the receiver to the back of the TV



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5.3.6 Digital receiver and DVD Recorder

First, use 3 antenna cables to connect the digital receiver and the DVD Recorder to the TV.



Then use a scart cable to connect the digital receiver to the TV.



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Finally, use 2 scart cables to connect the 2 devices and the TV.



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5.3.7 Digital receiver, DVD Recorder and Home Theatre System First, use 3 antenna cables to connect the 2 devices and the TV.



Then use a scart cable to connect the digital receiver to the TV.



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Then use 2 Scart cables to connect the Digital receiver to the DVD Recorder and the DVD Recorder to the TV.



Then use an HDMI cable to connect the Home Theatre System to the $\ensuremath{\mathsf{TV}}$



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Finally, use a digital audio cinch cable to connect the Home Theatre System to the TV.



5.3.8 Blu-ray Disc player

Use an HDMI cable to connect the Blu-ray Disc player to an HDMI connector on the back of the TV.



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5.4 More devices

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5.4.1 Digital HD receiver

First, use $\overset{-}{2}$ antenna cables to connect the Digital HD receiver to the TV.



Use an HDMI cable to connect the Digital HD receiver to the TV.



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5.4.2 Game console

The most practical connections for a game console are at the side of the TV. You can use an HDMI, S-Video or Video connection but never connect the S-Video and Video at the same time.

If you use an HDMI or YPbPr connection, you can use the connectors at the back of the TV. See the next pages for how to connect your games console.

Picture delay

To prevent picture delay, set the TV to Game. Press Options (E) and select Picture and sound. Press OK. Select Smart settings and press OK. Select Game and press OK.

The most practical connections for a game console are at the side of the TV.



Use an HDMI or the EXT3 (YPbPr and Audio L/R) cable to connect the game console to the back of the TV.



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5.4.3 HD Game console

Use an HDMI cable or YPbPr cables to connect a High Definition game console to the TV. Read also **5.4.2 Game console**.

5.4.4 Photo camera

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To view pictures stored on your digital photo camera, you can connect the camera directly to the TV. Use the USB connection at the side of the TV to connect. Switch on the camera after you made the connection.

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If the list with the content of the camera does not show automatically, your camera might need to be set to transfer its content with PTP – Picture Transfer Protocol. Read the user manual of the digital photo camera.



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5.4.5 Camcorder

The most practical connection for a camcorder is at the side of the TV.You can use an HDMI, S-Video or Video connection but never connect the S-Video and Video at the same time. See the next pages for how to connect your camcorder.

The most practical connection for a camcorder is at the side of the TV.



Use an HDMI or the EXT3 (YPbPr and Audio L/R) cable to connect the camcorder to the back of the TV.



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5.4.6 TV as PC monitor

You can connect the TV to your computer as a PC monitor. Before connecting the PC, set the PC monitor refresh rate to 60 Hz. You can connect the PC to the side of the TV or alternatively to the back. See the next pages to connect your computer.

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Supported PC resolutions

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For a list of supported resolutions see **Technical data > Display resolutions**.

Use a DVI to HDMI adapter to connect the PC to HDMI and an audio L/R cable to connect the Audio L/R to the side of the TV.



Use a VGA cable to connect the PC to the VGA connector and an audio L/R cable to connect the VGA Audio L/R to the back of the TV.



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5.4.7 Decoder

Use a scart cable to connect a decoder which decodes analogue antenna channels. Use the EXT1 or EXT2 connectors at the back of the TV.

You have to assign the TV channel as a channel to be decoded.Then assign the connection where the decoder is connected.

Press 1 > Setup > Installation > Decoder. Select Channel to set the channel that you want to decode. Select Status to set the connector you use for the decoder.

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5.5 EasyLink HDMI-CEC

5.5.1 EasyLink

If a device is equipped with the **HDMI-CEC standard**, the device and the TV can work together.

Connect the TV to the device using an HDMI cable. The TV comes with EasyLink set to **On**. To switch EasyLink off, press **>** Setup > Installation > Preferences > EasyLink.

With EasyLink, the following functions are available:

• One touch play

Insert a disc and press **Play** on the device. The TV switches on from standby mode and shows the disc programme automatically.

System standby

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Press O on the TV remote control for 2 seconds to switch the connected devices into standby mode.

System audio control

If you connect an audio system, you can listen to the audio from the TV through the audio system. The TV speakers are muted automatically.

The TV comes with the speakers set to **EasyLink (Automatic)**. To switch the TV speakers off or permanently on, press **> Setup > Sound > TV speakers**.

Make sure that all HDMI-CEC settings are properly set up on the device. EasyLink might not work with devices from other brands.

Naming of HDMI-CEC on other brands

The HDMI-CEC functionality has different names with different brands. Some examples of name are: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink, Viera Link, ...

Not all brands are fully compatible with EasyLink.

5.5.2 EasyLink Remote Control

First read **5.5.1 EasyLink**, before you go on with EasyLink Remote control.

With EasyLink Remote control, the TV remote control commands are sent directly to the device you are watching on TV. There is no need to select the device on the remote control first.

Caution

This is an advanced setting. Verify if all devices are suited for this setting. Unsuited devices will not respond. Try out this function first, before you switch on EasyLink Remote control permanently. To switch EasyLink Remote control on, press > Setup > Installation > Preferences > EasyLink Remote control.

Except for the **Home** two key, all remote control commands will try to operate the device. Some commands might not work with the device. To switch back to TV control, press and select **Watch TV**.

To control another device, press \clubsuit and select the other device.

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5.6 Common interface CAM

5.6.1 Conditional Access Module

Scrambled digital TV channels can be decoded with a Conditional Access Module (CAM). Digital TV service operators provide the CAM when you subscribe to their services. Contact a digital TV service operator for more information and terms & conditions.

Insert a CAM

Switch off the TV before inserting a CAM. Look on the CAM for the correct method of insertion. Incorrect insertion can damage the CAM and the TV.

Look for the **common interface slot** on the side of the TV. Gently insert the CAM as far as it will go and leave it in the slot permanently. It can take a few minutes before the CAM is activated. Removing the CAM will deactivate the service on TV.

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Watching a CAM service

If a CAM is inserted and subscription fees have been paid, the TV shows the programme from the digital TV service provider. The applications, their function, the content and the onscreen messages all come from the CAM service.

CAM settings

To set passwords or PIN codes for the CAM service, press **> Setup > Features > Common Interface**. Select the CAM provider and press **OK**.

5.6.2 Common Interface Plus CI+

ThisTV can handle the CI+ conditional access. CI+ allows service providers to offer premium HD digital programmes with a high level of copy protection.

To insert a CI+ CAM, read chapter **5.6.1** Conditional Access Module.

5.7 Network

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5.7.1 Wireless network connection

To set up the wireless network connection, read all chapters in **4.3 Network**.

5.7.2 Wired network connection

To set up the wired network connection, read all chapters in **4.3 Network**.

Connect the router to the TV using a network cable and switch on the router before you start the network installation.



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6 Troubleshooting

6.1 Contact information

Warning

If your TV breaks down, $\ensuremath{\text{NEVER}}$ try to repair the TV yourself.

If the advice and suggestions in Troubleshooting do not help resolve the problem, try switching the TV off and back on again.

Consumer Care

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If the TV problem is not solved you can call the Philips Consumer Care hotline in your country. Find the telephone number on the printed documentation that came with the TV. Or consult our website **www.philips.com/ support.**

TV model number and serial number

Find these numbers on the packaging label or on the type label on the back or bottom of the TV.

6.2 TV and remote control

The TV does not switch on

- Verify the power cable connection.
- Verify that the batteries of the remote control are not empty or weak. Verify their + / orientation.
- Unplug the power cable, wait for a minute and plug it back in. Try switching it on again.
- You can use the buttons on the TV to switch the TV on.

The TV does not respond to the remote control

- Verify that the batteries of the remote control are not empty or weak. Verify their + / orientation.
- Clean the remote control and TV sensor lens.
- Verify if EasyLink Remote control is set to Off
- During the warming-up time of the TV, which is about two minutes, it is possible that the TV and some external devices do not immediately

respond to commands from the remote control. The device is functioning normally and is not broken.

The TV switches off and the red light blinks

• Unplug the power cable, wait a minute and plug it back in.Verify if there is enough space for ventilation.Wait until the TV has cooled down. If the TV does not restart from standby and the blinking occurs again, call Consumer Care.

You forgot your code to unlock Child lock

• Read 3.4.2 Child lock.

6.3 TV channels

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Some TV channels are gone

- Verify if the correct list for the Channel overview is selected. Read **2.2.1 Channel overview**.
- A channel could be hidden in the Channel overview. Read **2.2.1 Channel overview**.

No digital channels found during installation

 Verify if the TV supports DVB-T or DVB-C in your country. Check the 'Digital TV Country Compatibility' sticker on the back of the TV.

6.4 Picture

LightGuide is on but there is no picture

- Verify if the antenna is connected properly.
- Verify if the correct device is selected.

The sound is on, but there is no picture

• Verify the contrast or brightness setting in the menu.

The TV picture is poor

- · Verify if the antenna is connected properly.
- Non-earthed audio devices, neon lights, high buildings or mountains can influence the picture quality. Try to improve the picture by changing the position of the antenna or placing devices away from the TV.

- Verify that the correct TV system is chosen in the Manual installation menu.
- If only a certain channel is poor, try to fine tune this channel with the Fine tune menu. Read **4.2.5 Manual install - analogue**.

The picture has poor colour

- Verify the colour settings in the Picture menu. Select any of the Smart settings in the Setup menu.
- Verify the connections and cables of the connected devices.

Picture delay when a game console is connected

 To prevent picture delay, set the TV to game mode. Select Game in the Smart settings in the Setup menu.

The TV does not remember my settings when I switch it back on

 Check whether the TV is set to Home in the Home menu > Setup > Installation > Preferences > Location menu.

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

• Press 💽 and select a more fitting picture format in the Picture format menu.

The picture position on screen is not correct

• Some picture signals from some devices do not fit the screen properly. You can move the picture with the cursor keys on the remote control. Check the signal output of the device.

6.5 Sound

There is a picture but no sound

- Verify the volume is not set to **0**.
- Verify the sound has not been muted with 🗰.
- Verify that all cables are connected properly.
- If no sound signal is detected, the TV automatically switches off the sound. This is proper operation and is not a malfunction.

The sound is poor

- Verify that the sound is set to Stereo.
- Select any of the Smart settings in Setup
 Smart settings.

The sound comes from one speaker only

• Verify that the Balance is not set to extreme left or right.

Sound delay when a DVD Home Theatre System device is connected

 Read the user manual of the DVD device to adjust the audio sync delay. If you cannot set a delay, switch off HD Natural Motion in
 Setup > Picture > Perfect Pixel HD.

6.6 Devices

HDMI connections

- The HDMI-HDCP procedure might take a few seconds before the TV shows the picture from a device.
- If the TV does not recognise the device and the screen shows no picture, try switching from one device to another and back again to restart the HDCP procedure.
- If sound interruptions occur persistently, see the user manual of the device to verify the output settings. If that does not help, connect an additional audio cable.
- If a DVI to HDMI adaptor is used, verify that an additional audio connection is in place to complete the DVI connection.

HDMI with EasyLink

- Verify if the connected device supports the HDMI-CEC standard and is properly set up. Read the user manual that comes with the device.
- Verify if the HDMI cable is properly connected.
- Verify if EasyLink is activated in Setup > Installation > Preferences >EasyLink.
- Make sure that the System audio control in your HDMI-CEC audio devices is properly set up. Read the user manual that comes with your audio device.

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EasyLink Remote control

• Some devices have identical functionality but do not support the specific remote control commands. Read **5.5.2 EasyLink RC**.

The PC display on my TV is not stable or is not synchronised (with TV as PC monitor)

- Set the refresh rate of your PC to 60Hz.
- Verify that the correct resolution mode is selected on your PC. Read **7.3 Display** resolutions.

HTR9900, BDP9100 and TV combination

- If the HTR sound is not the TV sound, select the correct source on the HTR remote control.
- The HTR9900 does not support EasyLink (HDMI-CEC).

6.7 Multimedia

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USB device content is not shown

- Set your device (camera) to 'Mass Storage Class' compliant.
- The USB device may need specific driver software. Unfortunately, this software cannot be downloaded to your TV.
- Not all audio and picture files are supported. Read **7 Technical data**.

USB device content does not play back smoothly

• The transfer performance of the USB device limits the transfer rate.

PC files are not shown in the Browse PC network menu

- Verify that files have been added in the PC folder.
- Not all file formats are supported. Read **7.4** Multimedia.
- You have to set the PC media server to share files with the TV. Read **4.3.2 What you need**.

PC files do not play

• Read 7.4 Multimedia.

6.8 Network

Wireless network not found or distorted.

- Microwave ovens, Dect phones or other WiFi 11b devices in your neighbourhood might disturb the wireless network.
- Make sure that the firewalls in your network allow access to the TV wireless connection.
- If the wireless network does not work properly in your home, try the wired network installation, Read **4.3 Network**.

Net TV does not work

• If the connection to the router is **OK**, verify the router connection to the Internet.

Browse PC and Net TV work slow

- Look in your wireless router's user manual for information on indoor range, transfer rate and other factors of signal quality.
- You need a high speed Internet connection for your router.



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7 Technical data

7.1 Power and reception

Product specifications are subject to change without notice.

For more specification details of this product see **www.philips.com/support**.

Power

- Mains power : AC220-240V +/-10%
- Ambient temperature : 5°C to 35°C
- Power and standby power consumption, see the technical specification on www.philips.com.

Reception

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- Antenna input : 75ohm coaxial (IEC75)
- TV system : DVB COFDM 2K/8K,
- Video playback : NTSC, SECAM, PAL
- DVB : DVB-T, DVB-C, MHEG 4 (see selected countries on the TV typeplate)
- Tunerbands : VHF, UHF, S-Channel, Hyperband

7.2 Display and sound

Picture / Display

- Display type: LCD Full HD W-UXGA
- Length of diagonal : 56 inch / 142cm
- Aspect ratio : 2.39:1 / 21:9
- Panel resolution : 2560×1080p
- Perfect Pixel HD picture enhancement
- 1080p 24/25/30/50/60Hz processing
- 200Hz Clear LCD

Sound

- Output power (RMS) : 2 × 15 W
- Virtual Dolby Digita
- BBE

7.3 Display resolutions

Supported display resolutions

Video formats

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Resolution — Refresh rate

- 480i 60 Hz
- 480p 60 Hz
- 576i 50 Hz
- 576p 50 Hz
- 720p 50 Hz, 60 Hz
- 1080i 50 Hz, 60 Hz
- 1080p 24 Hz, 25 Hz, 30 Hz
- 1080p 50 Hz, 60 Hz

Computer formats

Resolution — Refresh rate

- 640 × 480p 60 Hz (VGA/HDMI)
- 600 x 800p 60 Hz (VGA/HDMI)
- 1024 x 768p 60 Hz (VGA/HDMI)
- 1280 x 768p 60 Hz (VGA/HDMI)
- 1360 × 765p 60 Hz (VGA/HDMI)
- 1360 × 768p 60 Hz (VGA/HDMI)
- 1280 × 1024p 60 Hz (HDMI)
- 1920 × 1080i 60 Hz (HDMI)
- 1920 × 1080p 60 Hz (HDMI)

7.4 Multimedia

Connections

- USB
- Ethernet UTP5
- Wi-Fi 802.11g (built-in)

Supported USB / memory device formats

• FAT 16, FAT 32, NTFS

Playback formats

• MP3

Still pictures : JPEG

- MPEG 1, MPEG 2, MPEG 4
- MPEG program stream PAL
- AVI
- H.264 (MPEG-4 AVC)
- WMA v2 up to v9.2
- WMV9

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Supported media server software

- Windows Media Player 11 (for Microsoft Windows XP or Vista)
- Google (for XP)
- Twonky Media PacketVideo 4.4.9 (for PC and Intel MacOX)
- Sony Vaio Media Server (for Microsoft Windows XP or Vista)
- TVersity v.0.9.10.3 (for Microsoft Windows XP)
- Nero 8 Nero MediaHome (for Microsoft Windows XP)
- DiXiM (for Microsoft Windows XP)
- Macrovision Network Media Server(for Microsoft Windows XP)
- Fuppes (for Linux)
- uShare (for Linux)
- Philips NAS SPD8020 (v. 1.2.9.47)

7.5 Connectivity

Rear

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- EXT1 (scart): Audio L/R, CVBS in, RGB
- EXT2 (scart): Audio L/R, CVBS in, RGB
- EXT3:Y Pb Pr; Audio L/R
- VGA, Audio L/R
- HDMI 1 in (HDMI 1.3a for all HDMI connections)
- HDMI 2 in
- HDMI 3 in
- HDMI 4 in
- Audio In L/R (DVI to HDMI)
- Audio Out L/R display synchronised
- Digital Audio out (coaxial-cinch-S/PDIF) display synchronised
- Network (RJ45)

Side

- HDMI side in
- S-Video in (Y/C)
- Video in (CVBS)
- Audio L/R in
- Headphones (stereo mini jack)
- USB
- Common interface slot

7.6 Dimensions and weights

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Width 1418 mm Height 694 mm Depth 105 mm Weight ±32 kg

... with TV stand

Height 745 mm Depth 324 mm Weight ±38 kg

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The corresponding telephone numbers and addresses are given in the supplied Worldwide guarantee booklet.

如果你需要进一步的帮助,请致电您所在国家的客户支持服务部。 相应的电话号码和地址列在随附的全球保修手册中。



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