



دليل المستخدم

PHILIPS

جميع الحقوق محفوظة. المواصفات عرضة للتغيير من دون أي إشعار. العلامات التجارية هي ملك Koninklijke Philips Electronics N.V. أو مالكيها المعنيين. تحتفظ Philips

لا يمكن اعتبار Philips مسؤولة عن أي أخطاء في محتوى هذاحق تغيير المنتجات في أي وقت من دون أن تعتمد بالضرورة إلى ضبط الإضافات مسبقاً.

المواد الموجودة في هذا الدليل مناسبة لاستخدام النظام ضمن الهدف المنشود. في حال تم استخدام المنتج. أو الوحدات الفردية أو الإجراءات، لأهداف تختلف عن تلك المحددة هنا، فيجب الحصول على تأكيد صلاحيتها وملاءمتها. تضمن Philips عدم مخالفة المواد أي براءة اختراع تابعة للولايات المتحدة، ما من كفاالة آخر

أخرى صريحة أو ضمنية.

المستند أو أي مشاكل ناتجة من محتوى هذا المستند. سيتم تصحيح الأخطاء التي تم تبليغ Philips عنها كما سيتم نشرها على موقع دعم Philips على ويب في أقرب وقت ممكن.

أحكام الضمان

- خطر حدوث إصابة أو تلف بالتلفزيون أو إلغاء الضمان! لا تحاول أبداً إصلاح التلفزيون بنفسك.
- لا تستخدم التلفزيون والملحقات إلا كما أراد المصنع.
- تدل إشارة التنبيه الموجودة في الجهة الخلفية من التلفزيون إلى خطر حدوث صدمة كهربائية. لا تقم أبداً بنزع غطاء التلفزيون. اتصل دائماً بقسم دعم العملاء في Philips للحصول على خدمات أو إصلاحات.
- إن أي تشغيل منع صراحة في هذا الدليل أو أي تعديلات أو طرق تجميع لم يوص أو يصرح بها في هذا الدليل تبطل الضمان.

نقاط البيكسل

إن منتج LCD هذا مزود بعدد كبير من نقاط البيكسل الملونة. وعلى الرغم من وجود 99.999% من نقاط البيكسل الفعالة أو أكثر، إلا أن النقاط السوداء أو نقاط الضوء الساطع (أحمر أو أخضر أو أزرق) قد تظهر بشكل مستمر على الشاشة. وتعتبر أمراً أساسياً من بنية الشاشة (ضمن معايير الصناعة الشائعة) وليس بمثابة عطل في المنتج.

برامج Open source

يحتوي هذا التلفزيون على برامج open source. ويوجب هذا المستند، تعرض Philips تسليم، عند الطلب، نسخة عن رمز البرنامج المصدر المناسب الخاص بحزم برامج open source المحمية بحقوق الطبع والنشر والمستخدم في هذا المنتج حيث تتطلب التراخيص الخاصة به وجود مثل هذا العرض. هذا العرض صالح لغاية 3 سنوات اعتباراً من تاريخ شراء هذا المنتج لأي شخص يحصل على هذه المعلومات. للحصول على رمز المصدر، يرجى إرسال رسالة بريد إلكتروني إلى العنوان open.source@philips.com.

إذا كنت تفضل عدم استخدام البريد الإلكتروني أو إذا لم تحصل على رسالة تأكيد استلام رسالتك خلال الأسبوع الذي يلي إرسال الرسالة إلى عنوان البريد الإلكتروني هذا، فيرجى الكتابة باللغة الإنكليزية إلى فريق Philips Open Source

Intellectual Property & Standards

P.O. Box 220, 5600

AE Eindhoven, The Netherlands

في حال لم تحصل على تأكيد على استلام رسالتك في الوقت المناسب، يرجى إرسال رسالة بريد إلكتروني إلى العنوان المذكور أعلاه. تكون نصوص التراخيص ورسائل الإقرار الخاصة ببرامج open source المستخدمة في هذا المنتج مضمنة في نشرة منفصلة.

التوافق مع EMF

تقوم Koninklijke Philips Electronics N.V. بتصنيع العديد من المنتجات الموجهة إلى المستهلكين وبيعها، وتعمل هذه المنتجات بشكل عام، كأني جهاز إلكتروني على إرسال إشارات كهرومغناطيسية وتلقيها. ومن المبادئ الرائدة في عمل Philips اتخاذ كل الإجراءات اللازمة من حيث الصحة والسلامة في المنتجات، للتوافق مع كل المتطلبات القانونية السارية وللاتزام بكل معايير EMF السارية وقت إنتاج المنتجات. وتلتزم Philips بتطوير وإنتاج وتسويق المنتجات التي لا تؤثر على الصحة سلباً. وتؤكد Philips أن التعامل الصحيح مع منتجاتها واستخدامها في الغرض المقصود منها يجعل استخدامها آمناً وفقاً للأدلة العلمية الصحيحة المتوفرة اليوم. تؤدي Philips دوراً حيوياً في وضع معايير EMF والسلامة الدولية، مما يمكن Philips من توقع تطورات أفضل في عملية وضع المعايير لإدراجها مبكراً في منتجاتها.

تعليمات EMC

- للمحافظة على المطابقة مع توجيه التوافق الكهرومغناطيسي (EMC) (2004/108/EC)، يجب عدم فصل مأخذ التوصيل الرئيسي للمنتج عن سلك الطاقة الرئيسي.
- يتطلب تدخل المستخدم في حال لم يتم الجهاز بإعادة التشغيل في وضع DLNA/Net TV.

حقوق النسخ

تعتبر Windows Media إما علامة تجارية مسجلة أو علامة تجارية لشركة Microsoft في الولايات المتحدة و/أو بلدان أخرى.

تم التصنيع بموجب ترخيص من قبل Dolby Laboratories. Dolby ورمز D المزدوج هما علامتان تجاريتان لـ Dolby Laboratories.

إن DLNA®، وشعار DLNA و DLNA Certified عبارة عن علامات تجارية، أو علامات خدمات أو علامات اعتماد لـ Digital Living Network Alliance. إن HDMI وشعار HDMI و High-Definition Multimedia Interface هي علامات تجارية أو علامات تجارية مسجلة لـ HDMI licensing LLC في الولايات المتحدة أو بلدان أخرى.

كل العلامات التجارية المسجلة وغير المسجلة الأخرى تعود ملكيتها لمالكها المعنيين.



SDHC Logo is a trademark of SD-3C, LLC.

المحتويات

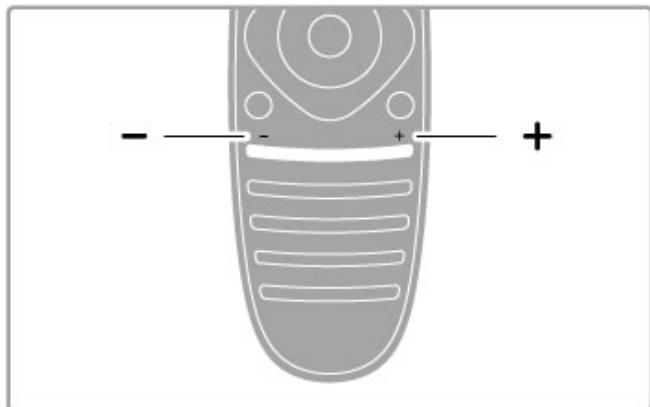
Getting started	4	1
TV tour	4	1.1
Setting up	8	1.2
Keys on the TV	10	1.3
Register your TV	11	1.4
Help and support	12	1.5
Basics	13	2
Remote control	13	2.1
Menus	16	2.2
Watch TV	18	2.3
3D	23	2.4
Connected devices	24	2.5
Subtitles, timers and locks	25	2.6
Smart TV	26	3
Net TV	26	3.1
Interactive TV	29	3.2
Videos, photos and music	30	3.3
Pause TV and recording	32	3.4
Games	34	3.5
Text	35	3.6
Setup	37	4
Picture and sound	37	4.1
Ambilight	39	4.2
Channels	41	4.3
Network	43	4.4
Devices	45	4.5
Universal access	46	4.6
Software	47	4.7
Connections	48	5
First connections	48	5.1
Cables and connections	49	5.2
Connect devices	51	5.3
Connect more devices	59	5.4
Network	64	5.5
SD card	65	5.6
Common interface CAM	66	5.7
Troubleshooting	67	6
Contact information	67	6.1
TV and remote control	68	6.2
TV channels	69	6.3
Picture and sound	70	6.4
Devices	71	6.5
Videos, photos and music	72	6.6
Network	73	6.7
Specifications	74	7
Software	74	7.1
Environmental	75	7.2
Power and reception	77	7.3
Display and sound	78	7.4
Display resolutions	79	7.5
Multimedia	80	7.6
Connectivity	81	7.7
Dimensions and weights	82	7.8

On this TV, you can watch 3D programmes and movies with
.Easy 3D

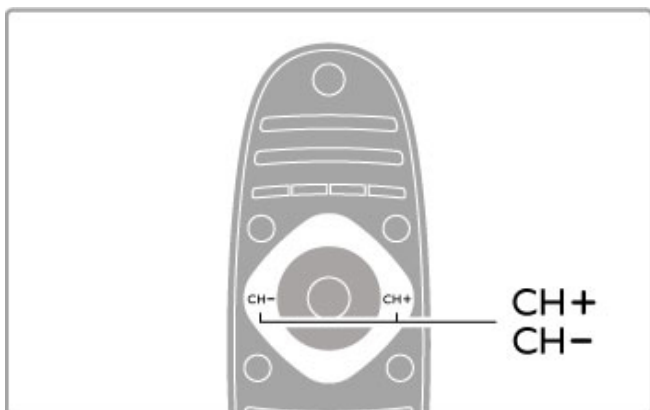
When 3D programmes are broadcast or you start a 3D movie,
the TV switches to 3D. All you need to do is to put on your
.passive 3D glasses

.Read more about 3D in **Help > Basics > Watch 3D**

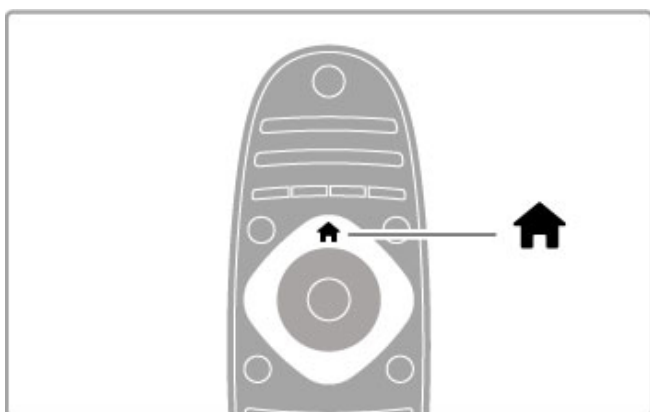
The remote control



.To adjust the volume



.To switch TV channels



.To open or close the **Home menu** 🏠

.Open the Home menu as a starting point to operate the TV

In the Home menu, you can start or stop a TV activity, such as
watching TV - **Watch TV** - or watching a movie from a
.connected DVD player

Getting started 1

TV tour 1.1

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 2560x1080p, 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

Smart TV



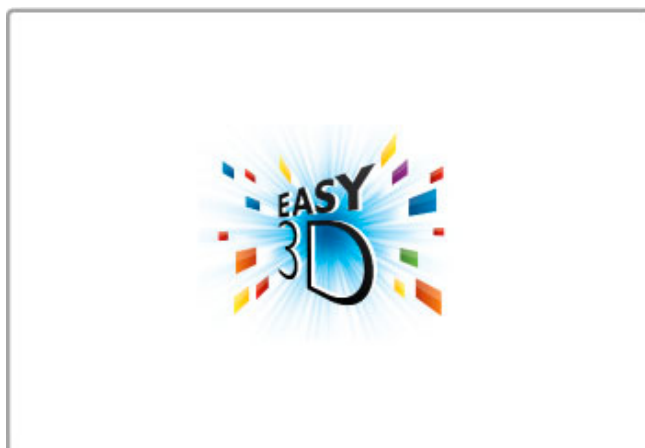
Connect your Smart TV to the **Internet** and you can rent a
movie from your home, browse the Net TV apps, watch
programmes you missed or check the TV guide. View your
.photos and videos from your PC, tablet PC or phone

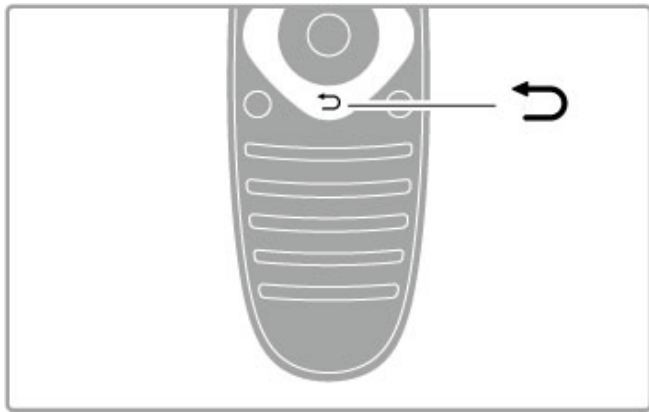
Connect a USB Hard Drive and pause a TV broadcast or record
.your favourite show

.Read more about Smart TV in **Help > Smart TV**

Read more about setting up the Internet connection in **Help >**
.Setup > Network

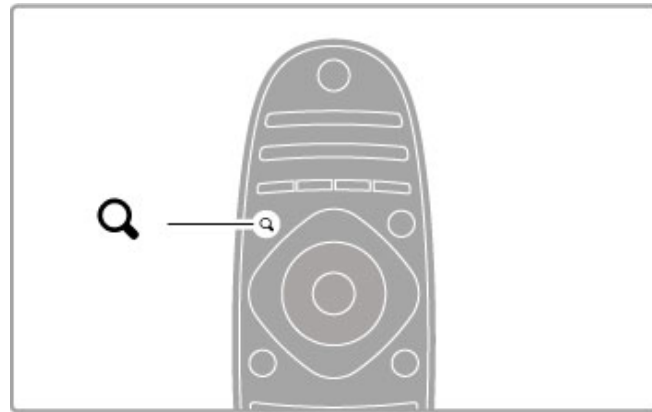
3D





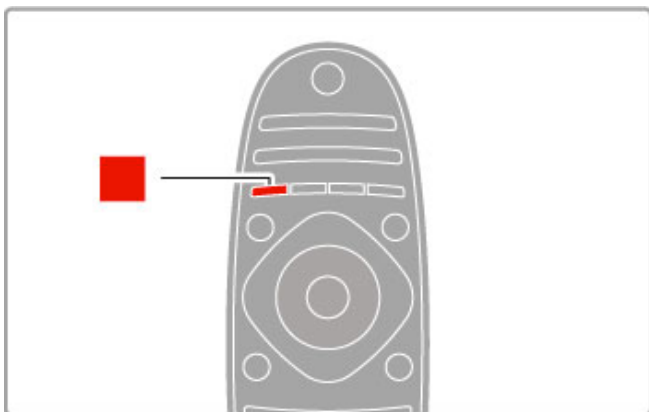
Back ↶

With Back, you can go back to the previous TV channel or go one step back in a menu



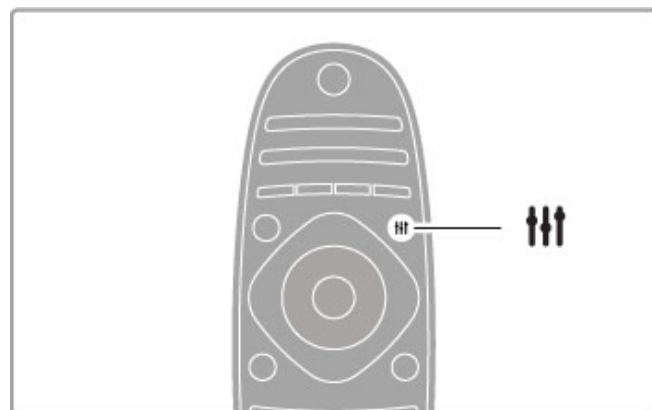
Q To open or close the **FIND** menu

Open the Find menu to open the **list of channels** while you are watching TV channels or the list of videos and music while you browse your PC on TV



Red

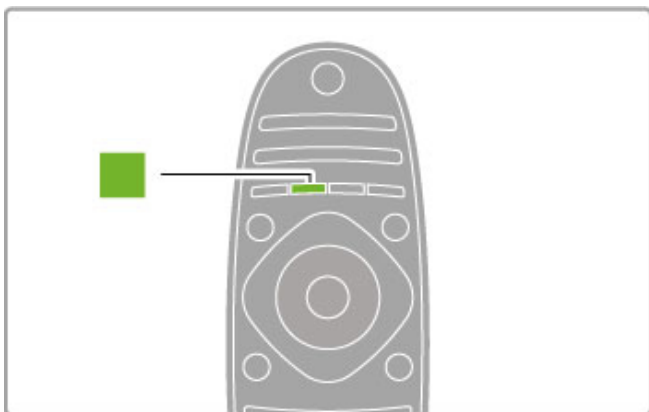
With the red key, you can select the red option or open digital **Interactive TV** or some TV demonstration clips



To open or close the **ADJUST** menu **H**

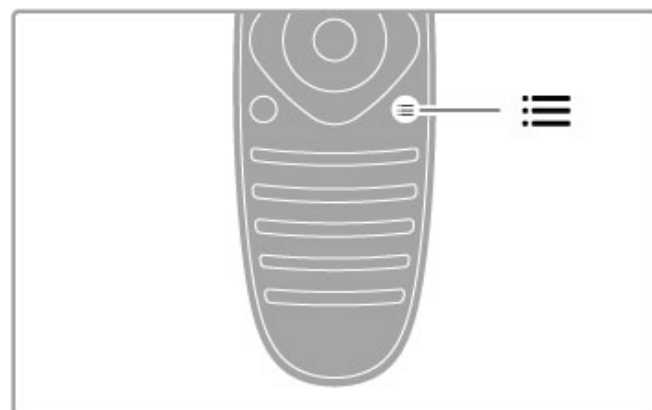
Open the Adjust menu to quickly adjust the picture and sound settings

You can set the Smart picture setting to **Game**, which is ideal for gaming, or change the Smart sound setting of the TV loudspeakers



Green

With the green key, you can select the green option or the **Eco** settings



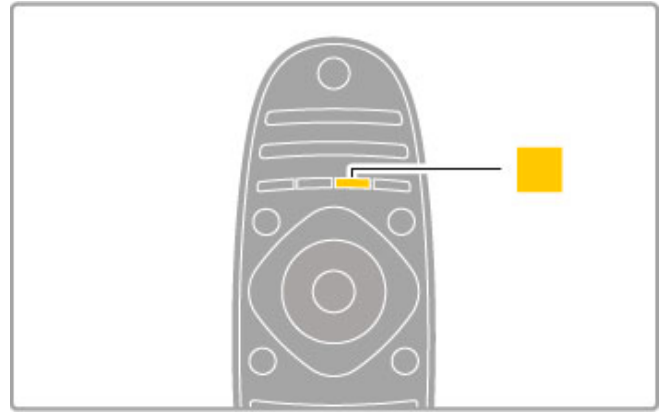
To open or close the **OPTIONS** menu **≡**

Open the Options menu to select optional settings related to what you are watching or doing on TV

Read more about Add your devices in **Help > Basics > Menus > . Home**

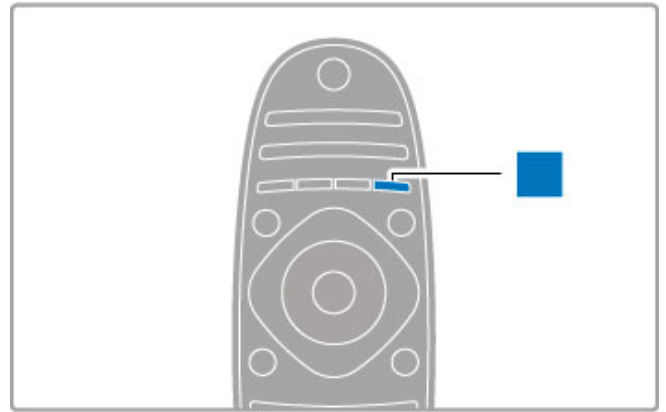
Read more about using EasyLink in **Help > Basics > Remote .control > Operate devices**

In the chapter **Help > Connections**, drawings like these will help .you to connect most common devices



Yellow

.With the yellow key, you can select the yellow option



Blue

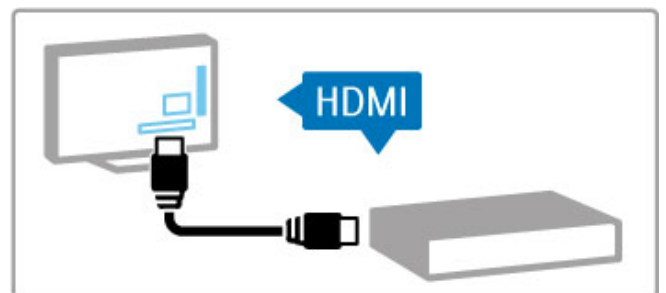
.With the blue key, you can select the blue option

Read more about the remote control in **Help > Basics > .Remote control > Overview**

.Or go to the **Q Search** page in this Help to look for any topic

.Press **▲** to select the next TV tour

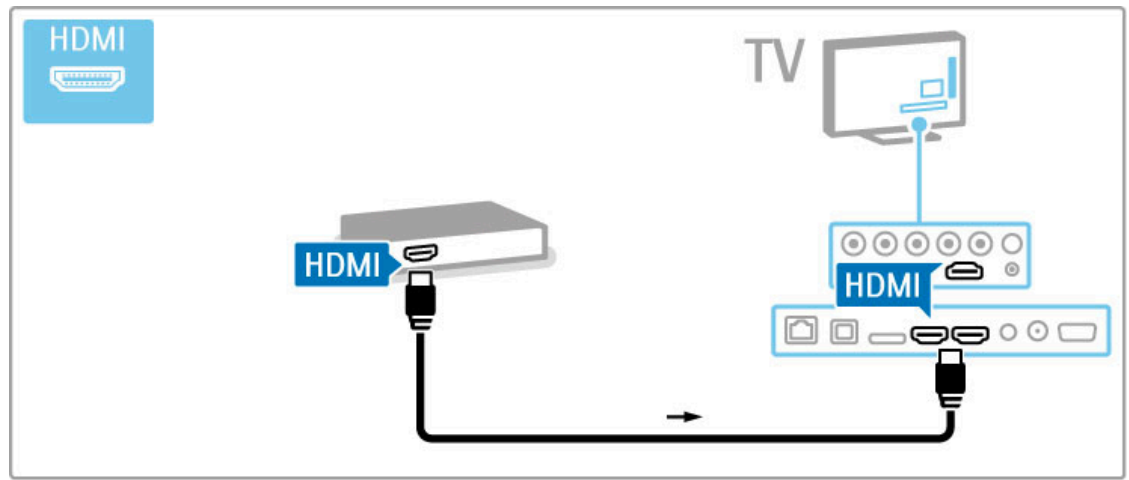
Connecting devices



Use the **HDMI™** connection to connect a DVD, Blu-ray Disc .player or game console

The HDMI connection offers the best picture and sound quality and, if your device has **EasyLink** (HDMI-CEC), the TV can add .the device to the Home menu automatically

When a device is added to the Home menu, you can select it to watch its programme. If the device has no EasyLink or you do not use the HDMI connection, you must add the connected .device in the Home menu using **Add your devices**



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.

- ... Watch **HD TV** programmes from
- a Blu-ray Disc player
 - a digital HD receiver connected with HDMI and with a subscription to HD programmes
 - over-the-air HD broadcasts
 - channels offering HD on a digital network
 - an HD game console connected with HDMI and playing an HD game

HD video clip

To experience the stunning sharpness and picture quality of HD TV, you can start the High Definition video clip from the Home menu. Press **Home** > **Setup** > **Watch demos** (on the second page of the Setup menu).

Contact your dealer for more information.
Go to www.philips.com/support to find FAQs featuring the list of HD channels or providers in your country.

Stand or wall mounting

Always make sure to position the TV on a solid surface when it is mounted on the TV stand.

Wall mounting

With the foot and neck of the TV stand, you can mount the TV to the wall. Combine the foot and neck to make a swivel mount or alternatively use only the foot to mount the TV close to the wall.

Find all mounting instructions in the Quick Start Guide that came with the TV. In case you lost this guide, you can download the guide from www.philips.com

Use the product type number of the TV to look for the Quick Start Guide to download.

Caution

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. Read also the safety precautions before positioning the TV.

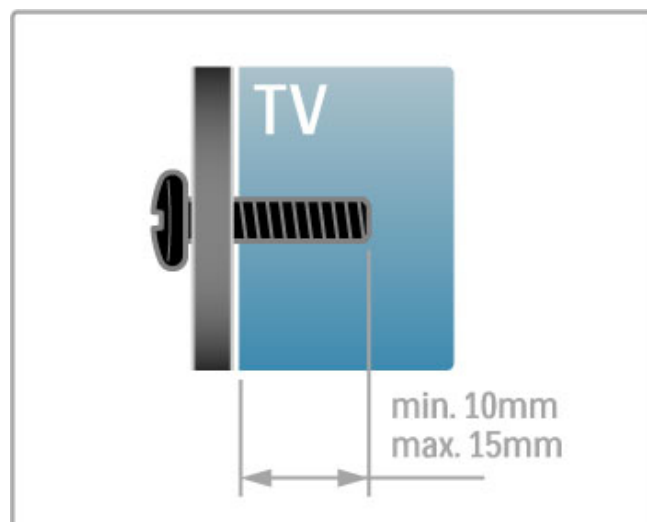
Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting or any mounting that results in accident or injury.

VESA info

Your TV is prepared for a VESA-compliant wall mount bracket ((sold separately).

:VESA codes to purchase the bracket
VESA MIS-F 400,400,M6

.Use a screw length as shown in the drawing



Position the TV

.Carefully read the safety precautions before you position 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.

!Risk of damage to the TV

Before you connect the TV to the power outlet, ensure that the power voltage matches the value printed on the back of the TV.

Never connect the TV to the power outlet if the voltage is different.

!Risk of injury 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.

- Teach children about the dangers of climbing on furniture to reach the TV.

!Risk of swallowing batteries

The remote control may contain coin-type batteries which can easily be swallowed by small children. Keep these batteries out of reach of children at all times.

!Risk of overheating

Never install the TV in a confined space. Always leave a space of at least 10 cm or 4 inches 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 or headphones at high volumes or for prolonged periods of time.

Low temperatures

If the TV is transported in temperatures below 5°C or 41°F, unpack the TV and wait until the TV temperature reaches room temperature before connecting the TV to the power outlet.

Care

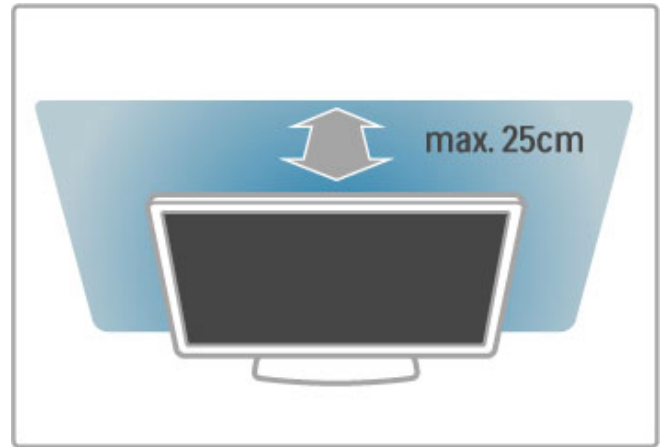
- Never touch, push, rub or strike the screen with any object.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- To avoid deformations and colour fading, wipe off water drops as quickly 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.

Temperature and humidity

In rare occasions, depending on temperature and humidity, minor condensation can occur on the inside of the TV glass front (on some models). To prevent this, do not expose the TV to direct sunlight, heat or extreme humidity. If condensation occurs, it will disappear spontaneously while the TV is playing for a few hours.

The condensation moisture will not harm the TV or cause malfunction.



Position the TV at the ideal viewing distance. Get 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. When seated, your eyes should be level with the centre of the screen.

For best sound, place the TV on a hard surface.

Safety

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

!Risk of electric shock or fire

- Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.

- Never expose the TV, remote control or batteries to excessive heat. Never place them near burning candles, naked flames or other heat sources, including direct sunlight.
- Never insert objects into the ventilation slots or other openings on the TV.
- Never place heavy objects on the power cord.

- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire. Ensure that no strain is exerted on the power cord when you swivel the TV screen.
- To disconnect the TV from the mains power, the power plug of the TV must be disconnected. When disconnecting the power, always pull the power plug, never the cord. Ensure that you have full access to the power plug, power cord and outlet socket at all times.

!Risk of injury or damage to the TV

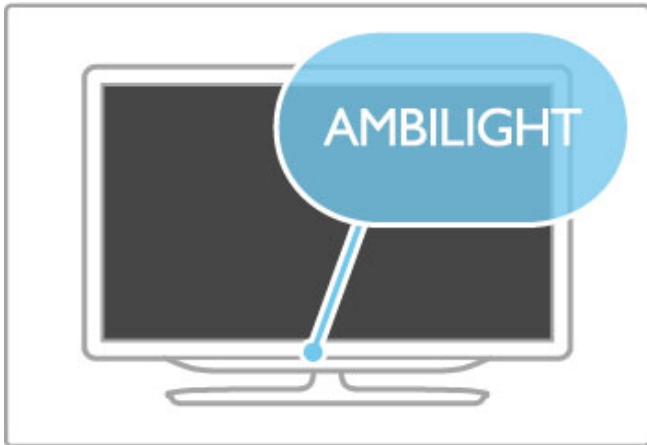
- Two people are required to lift and carry a TV that weighs more than 25 kg or 55 lbs.
- If you mount the TV on a stand, only use the supplied stand.
- Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the weight of the TV and the stand.

- When wall mounted, 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.

- Parts of this product are made of glass. Handle with care to avoid injury or damage.

.Press **Ambilight**, to switch Ambilight on or off

While the TV is on standby, you can switch Ambilight on and create an Ambilight Lounge light effect in your room. Read more about Ambilight and Lounge light in **Help > Setup > Ambilight**



🏠 Home

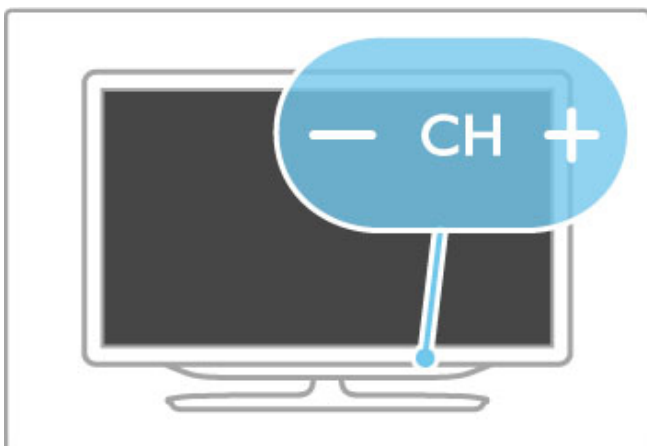
Press 🏠 (Home) to open the Home menu on screen. You can navigate the Home menu with the volume - or + (left or right) and the channel - or + (down or up) keys on the TV. To .confirm your choice, press 🏠 again

Read more about Home in **Help > Basics > Menus > 🏠 Home**



CH Channel

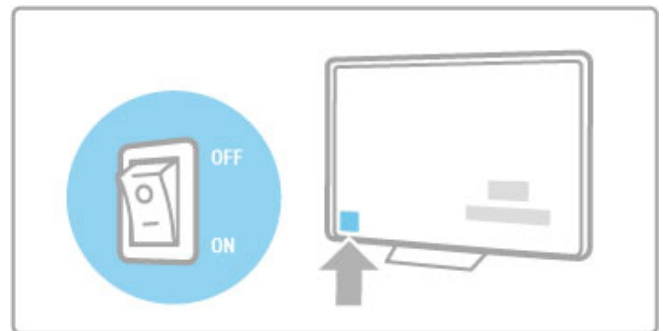
Press **CH** (Channel) - or + to switch channels. Or use the ▶️ or .⏮️ keys on the remote control



Keys on the TV 1.3

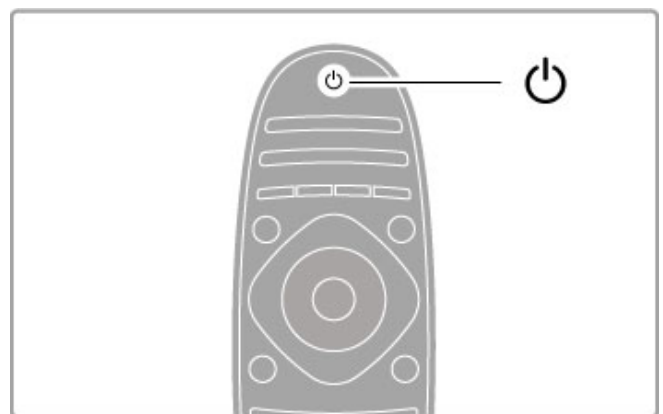
Power switch

Switch the TV on or off with the power switch at the right-hand side of the TV. When switched off, the TV does not consume .any energy



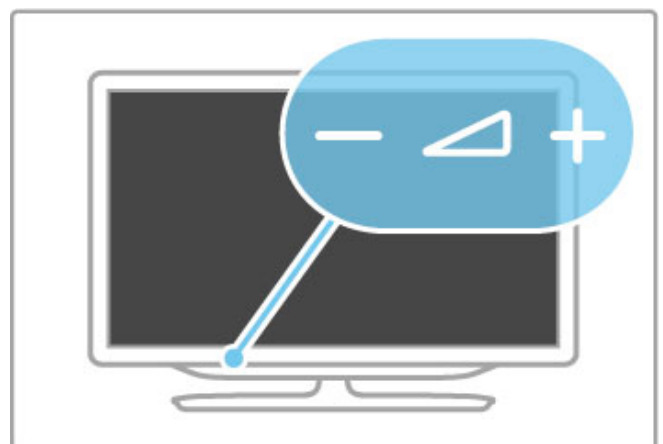
If the red indicator light is off, switch on the TV with the power .switch

If the red indicator is on (standby indication), press ⏻ on the remote control to switch on the TV. Alternatively, you can switch on the TV from standby with **CH+**, **CH-** or 🏠. It takes a .few seconds for the TV to start up



▴ Volume

Press ▴ (Volume) - or + to adjust the volume. Or use the + .or - keys on the remote control



Ambilight

Register your TV 1.4

.Congratulations on your purchase and welcome to Philips

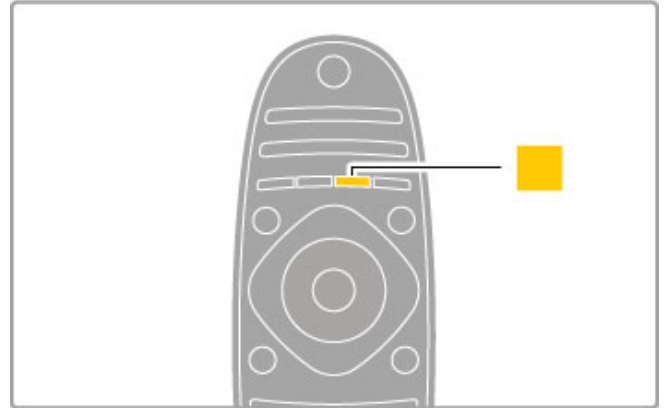
Register your TV and enjoy a range of benefits including full support (including downloads), privileged access to information about new products, exclusive offers and discounts, the chance to win prizes and even participate in special surveys about new .releases

Go to www.philips.com/welcome

Using Help and Search


Help

You can open Help from the Home menu. In most cases, you can also press the **yellow** key on your remote control to open or close Help directly. For some activities, like Text, the colour .keys have specific functions and cannot open Help



Before you follow the Help instructions, close Help. Press the **yellow** key or press **⬆** to close Help. When you press the **yellow** key again, Help will open on the page where you closed .it

Search

In Help, use ** Search** to find a topic you need. Select a topic from the list with the navigation keys and press **OK**. The topic you are looking for might not be on the first page but a few .pages further on. Press **▶** to go to the next page

Online support

To solve any Philips TV related problem, you can consult our online support. You can select your language and enter your .product model number

Go to **www.philips.com/support**

On the support site you can find your country's telephone number to contact us as well as answers to frequently asked .(questions (FAQs

You can download new TV software or the manual to read on your PC. You can email a specific question or, in some countries, .chat online to one of our collaborators

Contact Philips

For support, you can call the Philips Consumer Care hotline in your country. Find the telephone number in the printed .documentation that came with the TV

Or consult our website **www.philips.com/support**

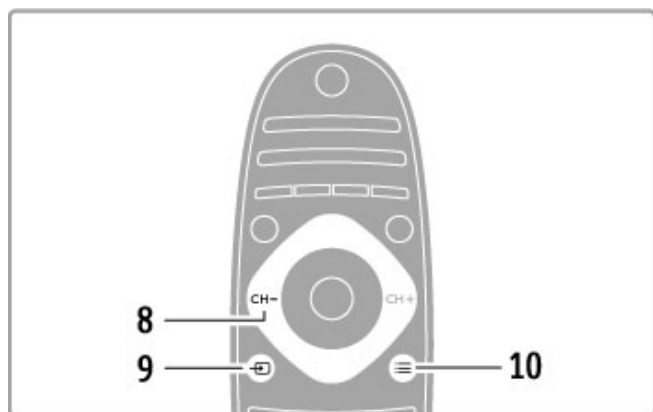
TV model number and serial number

You might be asked to provide the TV product 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

Basics 2

Remote control 2.1

Overview



CH- / Previous ◀ 8

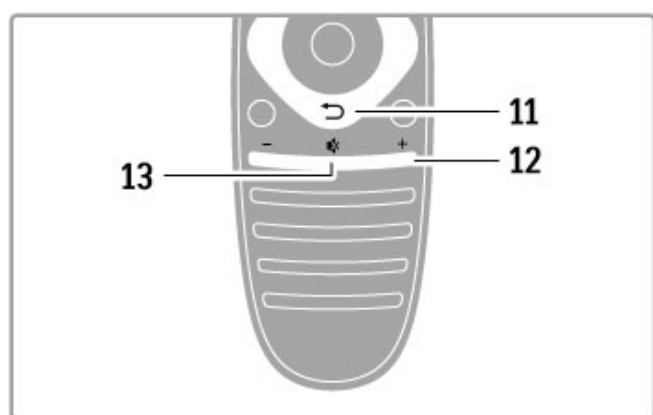
.To switch to the previous channel, page or chapter

Source □ 9

.To switch directly to a TV connection

Options ≡ 10

.To open or close the Options menu



Back ↶ 11

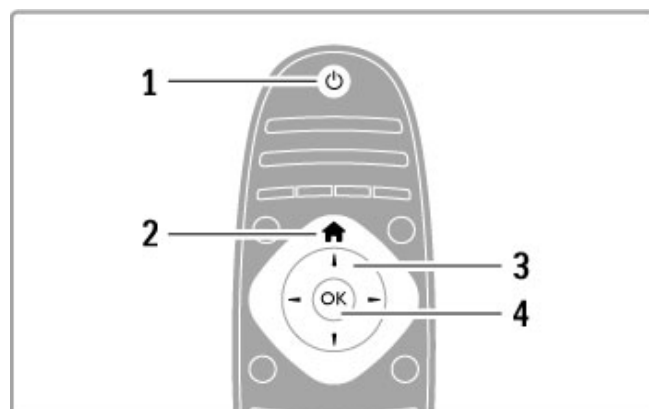
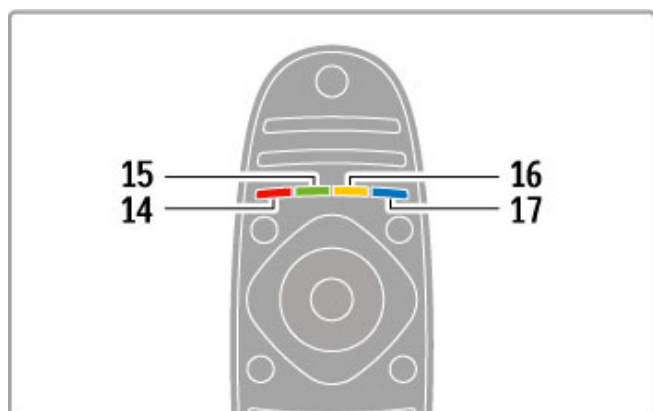
To go back to the previous channel. To exit a menu without changing a setting. To go back to the previous Text or Net TV page

Volume ▲ 12

.To adjust the volume level

Mute ✖ 13

.To mute the sound or to restore it



Standby ⏻ 1

.To switch the TV on or back to standby

Home 🏠 2

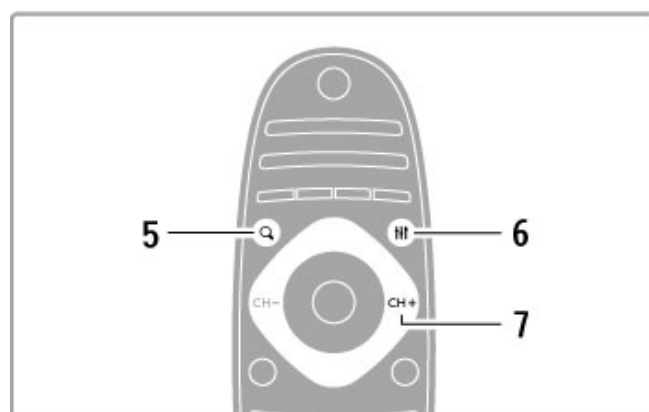
.To open or close the Home menu

Navigation key 3

.To navigate up, down, left or right

OK key 4

.To activate a selection



Find 🔍 5

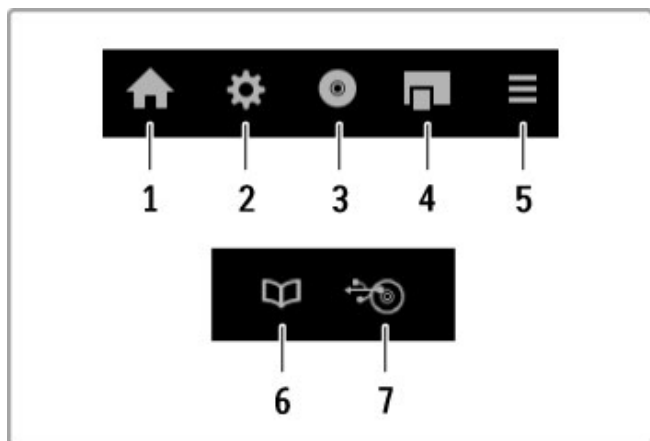
To open or close the channel list or your list of photos, music or movies

Adjust ⚙️ 6

To open or close the most used settings for picture, sound, Ambilight or 3D

CH+ / Next ▶ 7

.To switch to the next channel, page or chapter



In general, these keys open the following device menus

- Home menu **1**
- Setup menu **2**
- (Disc menu (disc content **3**
- Pop-up menu **4**
- Options menu **5**
- Programme guide **6**
- Media selection **7**

One Touch Play

Insert a disc into an EasyLink HDMI-CEC device and press **Play** on the device. The TV switches on from standby and starts playing the disc

System Audio Control

If you connect an EasyLink audio system, you can listen to the audio from the TV through the audio system. The TV speakers are muted automatically. You can control the volume of the audio system with the TV remote control

Surround mode

With recent Philips devices, you can change the surround sound setting of the device on the TV. To change this setting, press **ADJUST**, select **Surround mode** and press **OK**. On **Next mode**, press **OK** to toggle through the available modes on the device

Smart sound

With recent Philips devices, you can change the Smart sound setting of the device on the TV. To change this setting, press **ADJUST**, select **Smart sound** and press **OK**. Select a sound mode from the list

Screen off

If a recent Philips audio device only sends audio to the TV, the device may suggest switching off the TV screen. To switch off the screen when this message appears, select **Screen off** and (press **OK**. To switch the screen back on, press **Home** (Home

System Standby

Press **Power** on the remote control to switch the TV and all EasyLink devices to standby

Read more about EasyLink in **Help > Setup > Devices > EasyLink HDMI-CEC**

IR sensor

Always make sure you point the remote control at the remote control infrared sensor on the front of the TV

Red colour key **14**

To open interactive TV or to select a Text page

Green colour key **15**

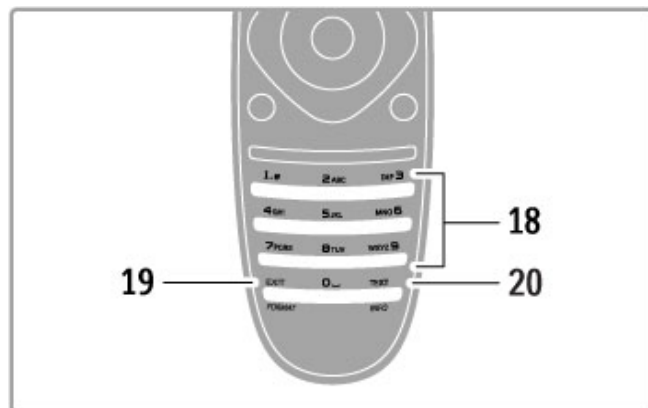
To open the Eco settings or to select a Text page

Yellow colour key **16**

To select a Text page

Blue colour key **17**

To select a Text page



Number keys and text keypad **18**

To select a TV channel directly or to enter text

Exit **19**

To exit MHP. / Keep this key pressed for 3 seconds to open or close the Format menu

Teletext / Info **20**

To open or close text. / Keep this key pressed for 3 seconds to open or close information on next programmes

Operate devices

The remote control of the TV can also operate a connected device. The device must have EasyLink (HDMI-CEC) and have it switched on. The device must also be connected with an HDMI cable

Operate an EasyLink device

To operate such a device with the TV remote control, select the device -or its activity- in the **Home** menu and press **OK**. The commands of all keys, except the **Home** key, the **ADJUST** key and the **OPTIONS** key, are forwarded to the device

Switch back to TV

To switch the remote control back to operate the TV, press **Home** (Home) and select **Watch TV** and press **OK**

Show device keys

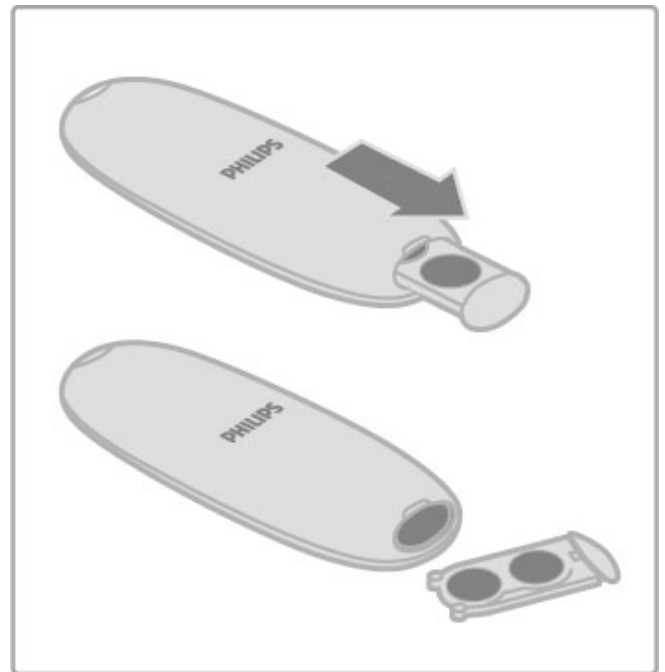
When operating a device, some of the keys might not be available on the TV remote control. To make these keys selectable on TV, press **OPTIONS** and select **Show device keys**. Select the key you need and press **OK**

(To hide the device keys, press **Back**)



Batteries

To open the battery cover, press the small button on the edge of the remote control inwards and lift the cover. Use 2 type AAA-LR03-1.5V batteries. Make sure the + and the - ends of the batteries line up correctly.



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 [Help > Specifications > Environmental > End of use](#).

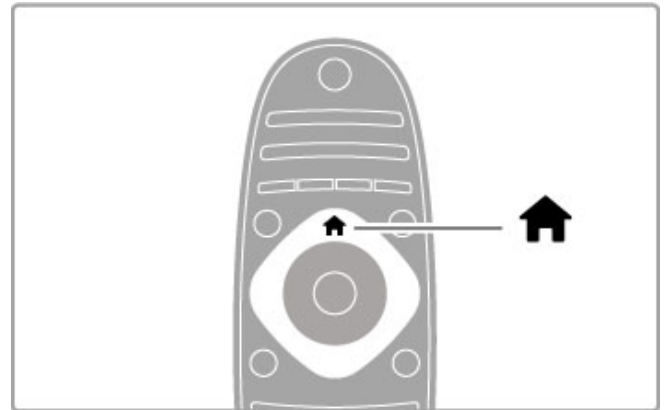
Cleaning

Your remote control is treated with a scratch-resistant coating.

To clean the remote control, use a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV or remote control.

Home

In the Home menu, you start watching TV or start watching a movie disc or any other TV activity.
Press **Home** to open the Home menu.
To start an activity, select it with the navigation keys and press **OK**.
To close the Home menu, press **Home** again.



Add your devices

A connected device should be added to the Home menu for easy selection.
If your connected device does not have EasyLink (HDMI-CEC) or is not connected with an HDMI cable, you need to manually add your device to the Home menu with **Add your devices**.

Devices with EasyLink (HDMI-CEC) and connected with an HDMI cable automatically show their activity in the Home menu.
A single device can add several activities.
If an EasyLink device does not appear automatically, EasyLink on the device may be switched off.

Add a device manually

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 connection to which the device is connected.
The device or its activities are now added to the Home menu.

Rename a device

To rename an added device or activity, select the device in the Home menu and press **OPTIONS** and select **Rename**. Use the keypad on the remote control as you do for SMS/text messaging to enter the new name.

Remove a device

To remove a device or activity from the Home menu, select it and press **OPTIONS** and then select **Remove this device**. If a device or activity keeps appearing in the Home menu after you deleted it, switch off the EasyLink setting on the device to prevent the icon from being automatically added again.

Read more about EasyLink in **Help > Basics > Remote control > Operate devices**.

Reorder

To reorder a device or an activity in the Home menu, select it and press **OPTIONS**.
Select **Reorder**.
With the navigation keys, reposition the device or activity where you want it. You can only reorder the sequence of the added devices and activities.

Press **OK** to confirm the position. All devices and activities shift to the right.
You can highlight another device or activity and reposition it.

To stop Reorder, press **OPTIONS** and select **Exit reorder**.

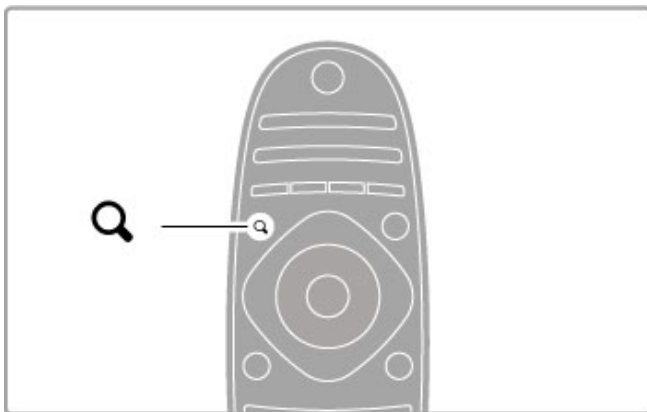
Restore device activities

To recall a deleted activity from a device with several activities, select the device or one of its activities and press **OPTIONS**.
Select **Restore device activities** and press **OK**. All deleted activities of this device appear again.

FIND

With **FIND** you open the Channel list while you are watching TV channels or you open the list of pictures, music and videos while browsing your PC or connected USB device.

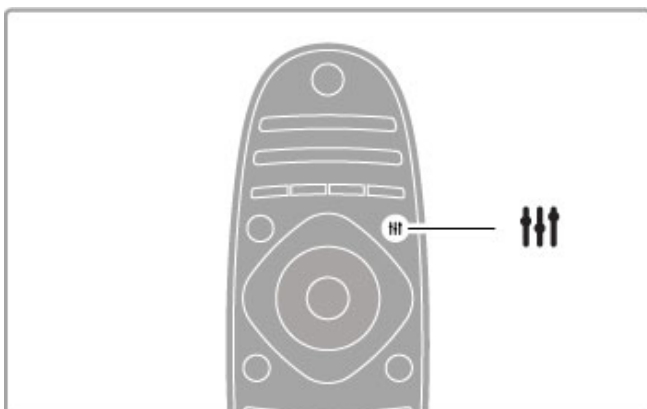
Press **FIND** to open the list.
To close the list, press **FIND** again.



ADJUST

With the ADJUST menu, you can adjust picture, sound, Ambilight and 3D settings quickly.

Press **ADJUST** to open the Adjust menu.
Select your choice with the navigation keys and press **OK**.
To close the menu, press **ADJUST** again.



:In the Adjust menu you can adjust these settings

- 3D •
- 3D depth •
- Two player gaming •
- Ambilight On or Off •
- Ambilight dynamics •
- Picture format •
- (Smart picture (presets •
- (Smart sound (presets •
- Speakers •
- Surround •
- Picture shift •

Ambilight

Read more about the Ambilight settings in **Help > Setup > Ambilight**

Picture format

Read more about the Picture format settings in **Help > Basics > Watch TV > Picture format**

Smart picture, Smart sound

You can set the TV to the pre-defined setting that best suits what you're watching

Read more about Smart settings in **Help > Basics > Watch TV > Smart picture and sound**

Speakers

To hear the sound through the TV speakers, close Help, press **III** **ADJUST**, select **Speakers** and select **TV**. Select **Amplifier** if you want to hear the sound through a connected Home Theatre System or Amplifier. These settings temporarily override any EasyLink settings

Surround

To switch the TV automatically to the best surround sound mode (only available when a Home Theatre System is connected), close Help, press **III** **ADJUST**, select **Surround** and select **On**

Picture shift

You can shift the picture on screen in a vertical or a horizontal (direction to view subtitles fully (depending on the TV input

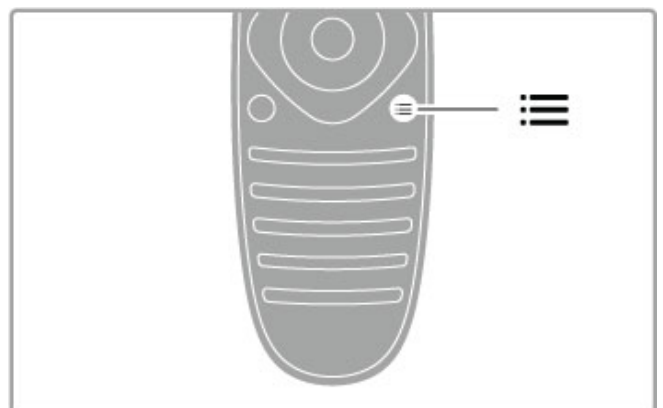
While watching TV, press **III** **ADJUST**, select **Picture shift** and press **OK**. Shift the picture with the navigation keys. Press **OK** to stop Picture shift

☰ OPTIONS

With the OPTIONS menu, you select optional settings related to what you are watching or doing on TV

Press **☰** **OPTIONS** at any time to see which options are available

To close the menu, press **☰** **OPTIONS** again



Switch channels

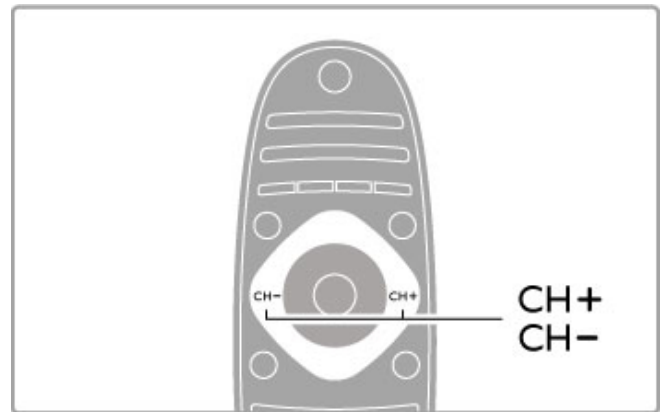
To watch TV and switch channels, make sure the **Watch TV** option is selected in the Home menu

To watch TV, press **⬆**, select **Watch TV** and press **OK**



To switch channels, press **CH+** or **CH-** on the remote control. You can use the number keys if you know the channel number or press **Q FIND** to open the Channel list to select a channel

(To switch back to the previous channel, press **⬅** (Back)



Radio channels

If digital broadcasting is available, digital radio stations are installed during installation. Switch to a radio channel just like you switch to a TV channel. A DVB-C channel installation usually places radio stations from channel number 1001 onwards

Options for watching TV channels

If you watch digital broadcast TV channels, press **⋮** **OPTIONS** to view the available options

- What's on •
- Status •
- Video selection •

What's on

This option shows information on the current and next programme on this channel. Use the navigation keys to scroll through text or to go to the next column

Status

Depending on the broadcast, the Status page will show relevant information. You can use this information to improve the channel signal or to check if certain services are available

Video selection

Digital TV channels can offer multi video signals (multi-feed broadcasts), different camera viewpoints or angles of the same event or different programmes on one TV channel. The TV shows a message to advise if any such TV channels are available. When available, press **⋮** **OPTIONS** and select **Video selection** to select your choice

Channel list

In the Channel list, you can look up all installed TV and radio channels

While watching TV, press **Q FIND** to open the Channel list. Press **Q FIND** again or **⬅** (Back) to close the Channel list without changing the channel

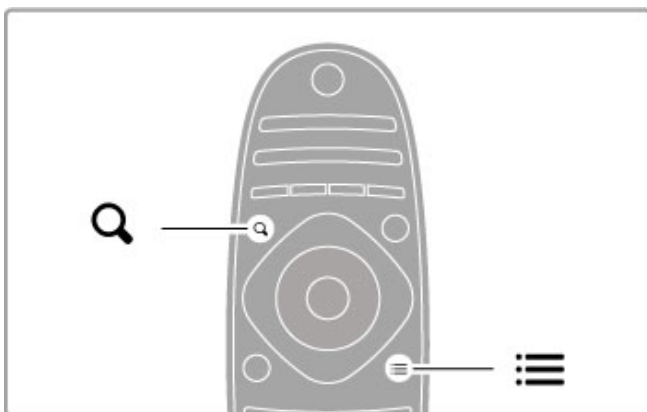
In the Channel list, you can navigate to a TV channel or radio station and press **OK** to watch the TV channel or listen to the radio station

The Channel list can have several pages. To view the next or previous Channel list page, press **▶** or **◀**

Channel list options

With the Channel list on screen, press **⋮** **OPTIONS** to select the following options

- Select list •
- Mark as favourite •
- Reorder •
- Rename •
- Hide channel •
- Unhide all •



Select list

Use this option to select which channels are shown in the Channel list. The list you select here determines which channels you flick through with **CH+** and **CH-**

Mark as favourite

When a channel is highlighted in the Channel list, you can set it as a favourite channel. Read **Basics > Watch TV > Favourite channels**

Reorder

You can reposition channels within the list

Press **⋮** **OPTIONS** and select **Reorder** to start reordering 1 channels

Highlight a channel and press **OK** 2

Reposition the channel where you want it with the navigation 3 keys. Alternatively, enter the new position directly with the number keys

Hide channel

You can hide a channel in the Channel list. When looking through channels, a hidden channel will be skipped. In the Channel list, highlight the channel you want to hide **1**. Press **≡ OPTIONS** and select **Hide channel**. The channel is **2** hidden as soon as you close the Channel list.

Show hidden channels

You can recall all hidden channels and unhide them again. In the Channel list, press **≡ OPTIONS** and select **Show 1 hidden channels**. The Channel list now shows all channels again.

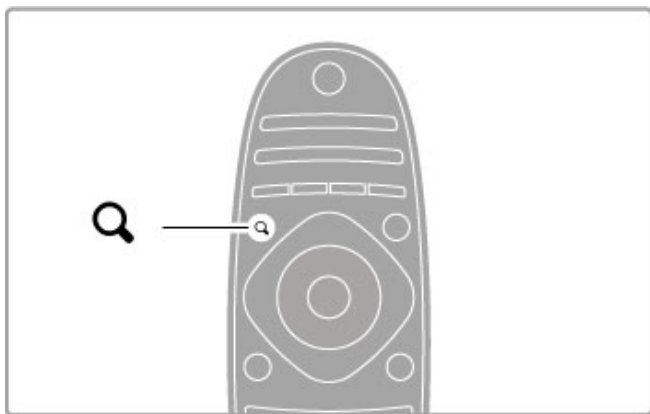
Press **≡ OPTIONS** and select **Unhide all** to unhide the **2** previously hidden channels.

Or, if you want to leave the previously hidden channels hidden, press **≡ OPTIONS** and select **Exit**.

Favourite channels

In the Channel list you can mark a channel as a favourite. You can set the Channel list to only zap through your list of favourite channels.

To open the **Channel list**, while you are watching TV channels, press **Q FIND**.



Mark a channel as favourite

While watching TV, press **Q FIND** to open the Channel list. Navigate to the channel you want to mark as favourite and press **≡ OPTIONS**. Select **Mark as favourite**. In the Channel list, the favourite channel is marked with a ★. You can unmark a favourite channel with **Unmark favourite**.

Channel list of favourites

You can set the Channel list to only flick through your favourite channels.

With the list on screen, press **≡ OPTIONS** and select **Select list**. Select **Favourites** from the list and press **OK**. With this list selected, you will only flick through your favourites.

Programme guide

If programme guide information is available in your area, you can open an on-screen programme guide with scheduled TV programmes.

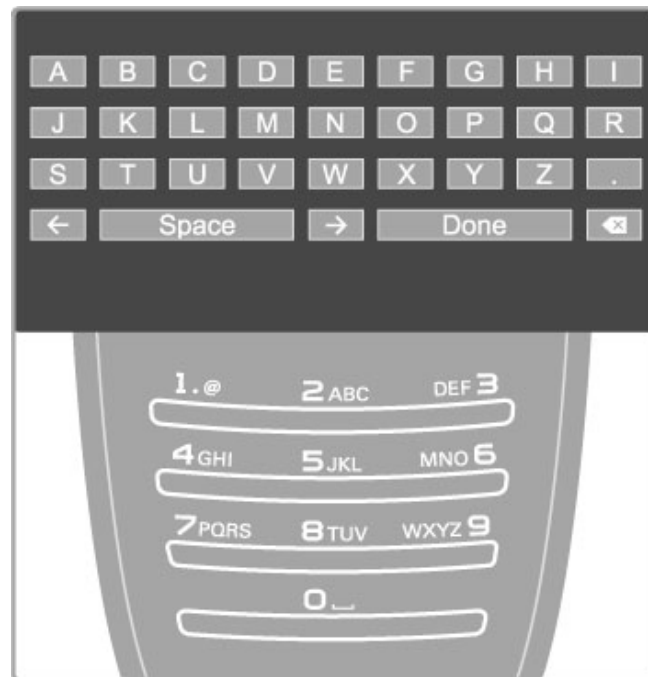
The Programme guide is provided by the broadcaster or Internet.

Press **OK** to confirm the position. You can insert the channel **4** or swap it. You can highlight another channel and do the same.

To stop Reorder, press **≡ OPTIONS** and select **Exit reorder**.

Rename

You can rename a channel in the Channel list. In the channel list, highlight the channel you want to rename **1**. Press **≡ OPTIONS** and select **Rename** to start renaming. You **2** can enter text directly with the remote control keypad or open a full keyboard on top of the text entry menu.



Enter text with the remote control keypad

Use the navigation keys to position the cursor in the text. Press **↶** (Back) to delete a character. Use the remote control keypad as you do for SMS/text messaging to enter a character. Use the **1** key to select a special character. Select **Clear** to delete a character. Select **Done** to end Rename.

Enter text with the on-screen keyboard

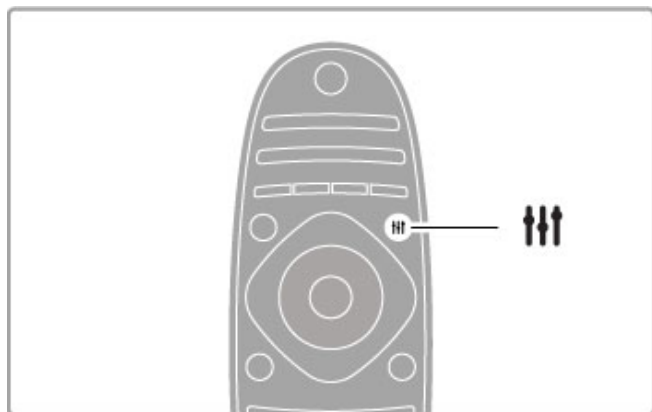
To open the on-screen keyboard on top of the text entry menu, press **OK** when the cursor in the text flashes. On the keyboard, use the navigation keys to highlight a character and press **OK** to enter it. To delete a character, press **↶** (Back) or highlight **✕** and press **OK**.

To switch from uppercase to lowercase or to a set of special characters, press **▶** (Next) or **◀** (Previous). To edit a character within a line of text, position the cursor on this character and use the **←** and **→** keys at both ends of the on-screen spacebar. To close the on-screen keyboard, highlight **Done** and press **OK**.

USB keyboard

You can use a connected USB keyboard to rename channels. To connect a USB keyboard, read **Help > Connections > Connect more devices > Keyboard and mouse**.

For easy picture or sound adjustment, you can select a preset setting for each. While watching TV, press **III ADJUST** to open the Adjust menu and select **Smart picture** or **Smart sound**. Make a selection from the list and press **OK**.



Smart picture and Smart sound

Smart settings are a combination of preset settings suited to a specific use such as gaming or daylight viewing. You can adjust a specific setting, like Brightness or Contrast, Bass or Treble, of a chosen smart setting. The smart setting will remember the adjustments you made.

Adjust smart settings

To adjust a specific setting of a smart setting, select the smart setting and press **OK**. Then press **⬆** and select **Setup**. Select **TV settings**, navigate to the individual setting and adjust it.

To return to the original smart setting values, undo the adjustments you made by first setting the TV in the smart setting you want to reset. Then press **⬆** > **Setup** > **TV settings**, select **Reset** and press **OK**.

Read more about adjusting separate settings in **Help** > **Setup** > **Picture and Sound** and **Ambilight**.

Smart picture list

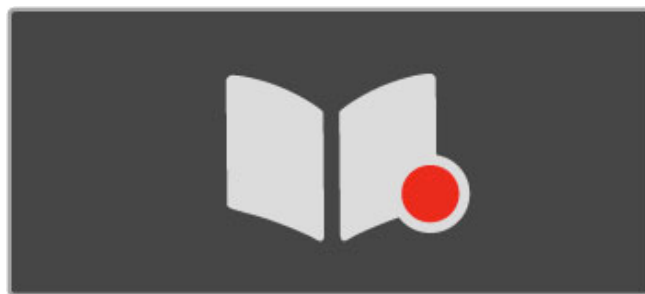
Personal - Your choices made in Personalise picture and sound •
Vivid - Ideal for daylight viewing •
Natural - Natural picture settings •
Cinema - Ideal for watching movies •
Game - Ideal for gaming •
Energy saving - Energy-conscious settings •

Standard - Factory standard settings •
Photo - Ideal for viewing photos •
ISF Day and ISF Night - ISF Calibration settings •

Smart sound list

Personal - Your personal choices made in Personalise picture and sound •
Standard - Factory standard •
News - Ideal for speech •
Movie - Ideal for watching movies •
Game - Ideal for gaming •
Drama - Ideal for TV soaps •
Sports - Ideal for sports programmes •

Picture format



Open the Programme guide

While watching TV, press **⬆**, select **Programme guide** and press **OK**.

To quit the Programme guide without changing a setting, press **⬅** (Back).

First use

The first time you open the Programme guide, the TV scans all TV channels for programme guide information. This can take several minutes. The data is stored in the TV. The TV can store programme data for up to eight days.

Programme guide options

With a programme selected in the guide, press **≡ OPTIONS** to select the following:

Set reminder •

To set an on-screen reminder for when a programme is due to start, select **Set reminder** and press **OK**. The programme is marked with a **⌚** (Clock). To cancel this reminder, select **Clear reminder** and press **OK**.

Change day •

View the previous or next day's programmes.

More info •

Shows the programme details and summary.

Search by genre •

View all programmes selected by genre.

Scheduled reminders •

If a reminder is set, you can view a list of all scheduled reminders.

Update programme guide •

After the first scan, the TV stores the programme guide data. If you update or reinstall channels or reorder the Channel list, you will need to update the Programme guide.

To update, select **Update programme guide**. Reminders are cleared.

Broadcaster or Network

To select where the Programme guide information comes from, press **⬆** > **Setup** > **TV settings** > **Preferences** > **Programme guide**.

Select **From the network** or **From the broadcaster**.

From the network

Until you link up with Net TV, programme guide information comes from the broadcaster. Once you are connected with Net TV, the TV switches automatically to the Internet for programme guide information.

From the broadcaster

Guide information comes from the broadcaster/operator.

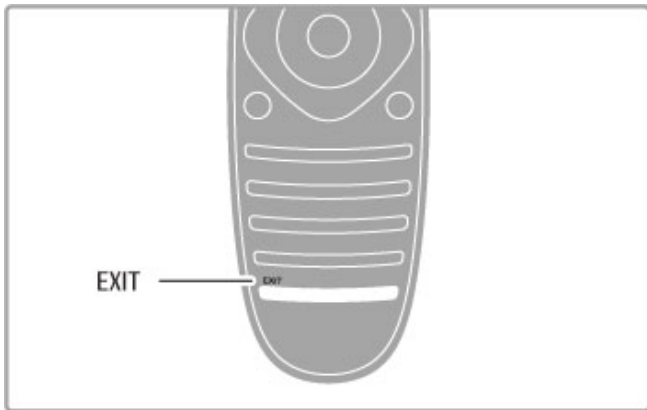
Smart picture and sound settings



Open Multi view

To open **Multi view**, press **⏠** (Home), select **Multi view** and press **OK**. With the remote control you can operate the main screen.

To close **Multi view**, press **EXIT** or press **⏠** (Home) and select another activity.



Main screen picture

To change the main screen picture, press **Q FIND**. In the list, select what you want to watch and press **OK**.

In the main screen, you can watch a TV channel, a connected device (connected with HDMI), the Text pages of the TV channel you are watching, a Net TV app or Internet page, the TV Programme guide or Help.

When you close and open Multi view again, the last selected main screen is shown.

Switch to standby

If the TV is on, press **⏻** on the remote control to switch to standby. The red standby key indicator is on. Although the TV consumes very little power when on standby, energy does continue to be consumed.

When you do not use the TV for an extended period of time, switch the TV off completely with the power switch.

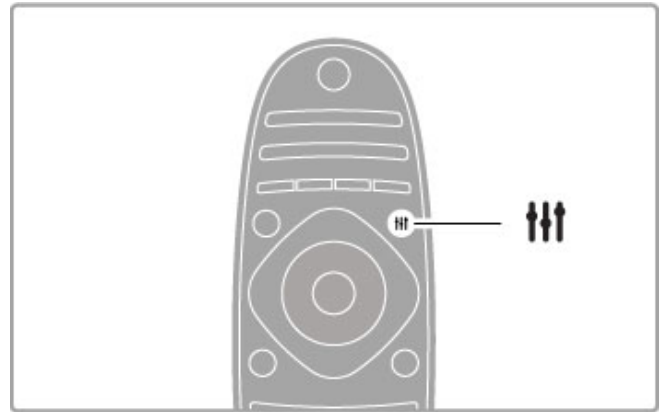
Auto switch off

If you use the TV as a monitor or use a digital receiver to watch TV (a set top box - STB) and you do not use the remote control of the TV, switch off the automatic switch off.

This will prevent the TV from switching off automatically after a 4-hour period without a key press on the remote control of the TV.

If black bars appear on the screen, you can adjust the picture format to a format that fills the screen.

While watching TV, press **≡ ADJUST** to open the Adjust menu and select **Picture format**. Select a format from the list and press **OK**.



Picture formats

The following formats are available according to the picture on screen:

Auto fill •

Automatically enlarges the picture to fill the screen. Minimal picture distortion, subtitles remain visible. Not fit for PC input.

Auto zoom •

Automatically zooms the picture in to fill the screen as much as possible without distortion. Black bars may be visible. Not fit for PC input.

16:9 •

Sets the picture in 16:9 format for HD 16:9 broadcast.

Super zoom •

Removes the black bars on the side of 4:3 broadcasts. The picture is adjusted to fit the screen.

Super zoom 16:9 •

Sets the picture in 16:9 format with minimal distortion for 4:3 broadcast.

Movie expand 16:9 •

Scales the picture to a 16:9 format.

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.

Unscaled •

Expert mode for HD or PC input. Pixel for pixel display. Black bars may appear with pictures from a PC.

Wide screen •

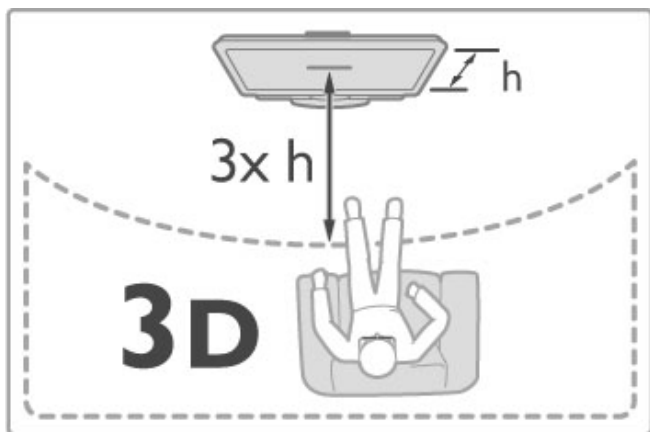
Stretches the picture to a 16:9 format.

Multi view

With Multi view, you can watch two screens simultaneously.

When you open Multi view, the TV shows two screens, one main and one small screen.

To switch off the automatic switch off, press the **green** key while you are watching TV channels and select **Auto switch off** and .select **Off**



Health warning

If you or your family has a history of epilepsy or photosensitive •
seizures, consult a medical professional before exposing yourself
to flashing light sources, rapid image sequences or 3D viewing
To avoid discomfort such as dizziness, headache or •
disorientation, we recommend not watching 3D for extended
periods of time

If you experience any discomfort, stop watching 3D and do not
immediately engage in any potentially hazardous activity (for
example driving a car) until your symptoms have disappeared. If
symptoms persist, do not resume watching 3D without consulting
a medical professional first

Parents should monitor their children during 3D viewing and •
ensure they do not experience any discomfort as mentioned
above. Watching 3D is not recommended for children under 6
years of age as their visual system is not fully developed yet

Do not use the 3D glasses for any purpose other than •
watching 3D TV

CHOKING HAZARD - Do not let children under 6 years of •
age play with the 3D glasses, they could choke on the battery lid
(or battery (if present

Cleaning and care

Do not expose the 3D glasses to direct sunlight, heat, fire or •
water. This may result in a product malfunction or fire
Use a clean soft cloth (microfibre or cotton flannel) to clean •
the lenses to avoid scratching them. Never spray cleaner directly
onto the 3D glasses. This may damage the electronics

Do not drop, bend or apply force to the lenses of the 3D •
glasses

Do not use cleaning chemicals containing alcohol, solvent, •
surfactant, or wax, benzene, thinner, mosquito repellent or
lubricant. Using these chemicals can cause discoloration or cracks

3D 2.4

What you need

To watch 3D on this TV, simply put on the 3D glasses. Two
pairs of passive 3D glasses are included

For an extra pair of glasses order the Philips Passive 3D glasses
PTA426 or PTA416. The 3D performance of other 3D glasses is
not guaranteed

Watch 3D

To start watching a 3D movie or programme, insert a 3D movie
into a 3D Blu-ray Disc player or tune to a TV channel that
broadcasts programmes in 3D

Press **⌂** (Home) and select the **3D Blu-ray Disc player** or
select **Watch TV** and tune to the TV channel

Start 3D

The TV can detect when 3D is available. When the 3D message
appears, select **Start 3D** and press **OK**. Put on the 3D glasses
If the TV cannot detect the 3D signal (the 3D signal tag is
missing), the 3D programme is shown as a double image on
screen

To switch the double image to 3D, press **⏏ ADJUST**, select **3D**
and select **Side by side** or **Top / bottom** according to the double
image positions

You might need to select the inverted format if the normal
format results in strange 3D effects

Stop 3D

To stop watching 3D, press **⏏ ADJUST** and select **2D** in the
3D menu

You can also stop 3D when you switch to another channel or
connected device

2D to 3D conversion

You can convert any 2D programme to watch it in 3D

To convert a 2D programme to 3D, press **⏏ ADJUST**, select
3D and select **2D to 3D conversion**

To stop the 2D to 3D conversion, select **2D** in the 3D menu or
switch to another activity in the Home menu. The conversion will
not stop if you switch between TV channels

3D depth

You can change the depth of 3D for a weaker or stronger 3D
effect

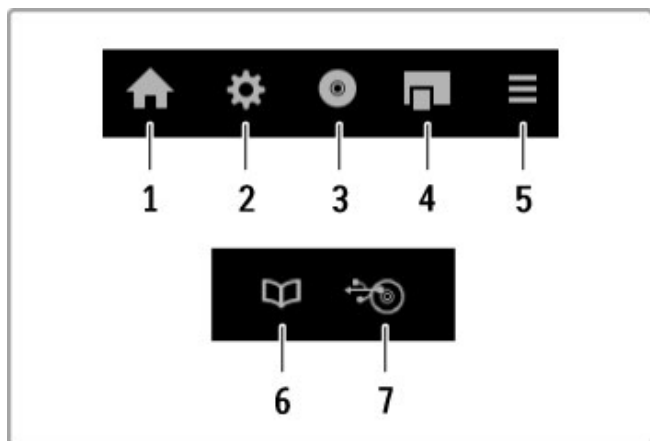
To set the 3D depth, press **⏏ ADJUST** and select **3D depth**.
Use the slider bar to set the 3D depth and press **OK**

Specifics

If a 3D TV broadcast is switched to 2D, the TV shows only •
the 3D-left picture
3D is not available in Multi view •

Optimal 3D viewing

For an optimal 3D viewing experience, we recommend that you
sit at least 3 times the height of the TV screen away from the •
TV, but no further than 6 metres away
avoid fluorescent lighting (such as TL lighting or certain energy •
saving light bulbs which operate on a low frequency) and direct
sunlight as they may interfere with the 3D experience



In general, these keys open the following device menus

- Home menu **1**
- Setup menu **2**
- (Disc menu (disc content **3**
- Pop-up menu **4**
- Options menu **5**
- Programme guide **6**
- Media selection **7**

Read more about EasyLink in **Help > Setup > Devices > EasyLink HDMI-CEC**

Connected devices 2.5

Select a device

Select from the Home menu

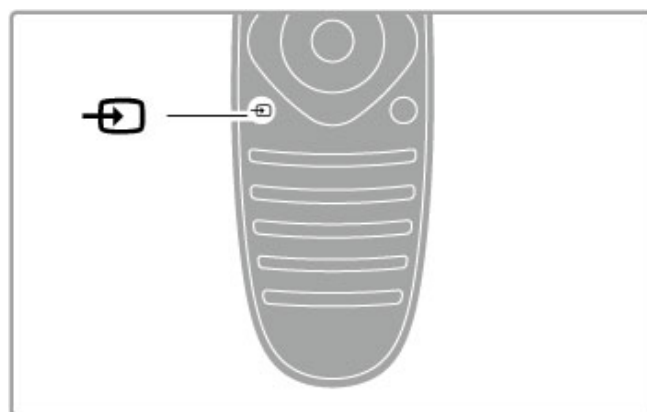
To select and watch a connected device or activity, press **Home** to open the **Home menu** and select the device or its activity and press **OK**. Make sure the device is switched on

Add a connected device to the Home menu for easy selection

Read more about Add your devices in **Help > Basics > Menus > Home menu**

Select from the list of connections

To open the list of connections, press **SOURCE**. Select the TV connection and press **OK** to switch to the device on that connection. Make sure the device is switched on



Operate devices

The remote control of the TV can also operate a connected device. The device must have EasyLink (HDMI-CEC) and have it switched on. The device must also be connected with an HDMI cable

Operate an EasyLink device

To operate such a device with the TV remote control, select the device -or its activity- in the **Home** menu and press **OK**. The commands of all keys, except the **Home** key, the **ADJUST** key and the **OPTIONS** key, are forwarded to the device

If the key you need is not on the TV remote control, you can show extra keys on screen with Show device keys

Show device keys

To show the device keys on screen, press **OPTIONS** and select **Show device keys**. Select the key you need and press **OK**

(To hide the device keys, press **Back**)

Child locks

To prevent children from watching a channel or a programme, you can lock channels or lock age-rated programmes.

Parental rating

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

To watch a locked programme you must enter the child lock code. The parental age rating is set for all channels.

Set an age rating

Press **⬆** and select **Setup > Channel settings** and select **Child lock > Parental rating**.

To select an age rating, you must first enter your 4-digit child lock code. If no child lock code is set, you can set the code now.

When the code is entered, you can select the age rating. When the rating of a programme is equal or higher than the rating you have set for your child's age, the programme will be locked. The TV will ask for the code to unlock the programme. For some operators, the TV only locks programmes with a higher rating.

Lock a channel

To lock a channel, press **⬆** and select **Setup > Channel settings** and select **Child lock > Channel lock**. In the list of channel numbers, select a channel and press **OK** to lock a channel.

In the list, a locked channel is marked with an **X**. Now, you can select another channel to lock or unlock. The lock is activated as soon as you close the menu.

You cannot lock programmes from connected devices.

Change code

To change the current lock code, press **⬆** and select **Setup > Channel settings** and select **Child lock > Change code**. Enter the current code and then enter the new code twice. The new code is set.

?Forgotten your code

If you have forgotten your code to unlock, call Philips Consumer Care in your country. Find the telephone number on the documentation that came with the TV or go to www.philips.com/support.

Sleep timer

With the sleep timer, you can set the TV to switch to standby automatically after a specified time.

To set the sleep timer, press **⬆** > **Setup > TV settings > Preferences > Sleep timer**. With the slider bar you can set the time up to 180 minutes in increments of 5 minutes. If set to 0 minutes, the sleep timer is switched off.

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

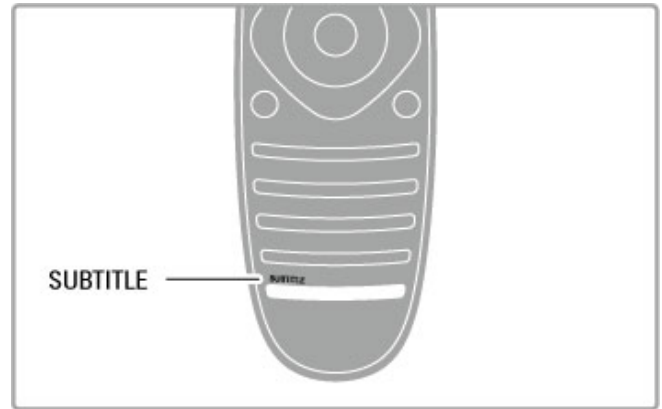
Subtitles, timers and locks 2.6

Subtitles

Programme subtitles are available most of the time. You can switch subtitles on or off. How to set subtitles depends on whether a channel is analogue or digital.

Switch on subtitles

To open the Subtitle menu, press **SUBTITLE**. You can switch subtitles **On** or **Off**. Select **On during mute** to show subtitles only when the sound is muted with **⏸**.



For analogue channels

To make subtitles available for a channel, switch to the channel and press **TEXT** to open Text. Enter the page number for subtitles, usually 888, and press **TEXT** again to close Text. With subtitles switched on in the Subtitle menu, subtitles will be shown if available. Each analogue channel must be set up separately.

For digital channels

There is no need to activate subtitles in Text for digital channels. You can set a preferred primary and secondary subtitle language. If these subtitle languages are not available for a channel, you can select another available subtitle language.

To set the primary and secondary subtitle language, press **⬆** and select **Setup > Channel settings** and select **Languages > Primary** and **Secondary subtitles**.

To select a subtitle language when none of your preferred languages is shown, press **≡ OPTIONS**, select **Subtitle language** and select a language you want temporarily.

Audio languages

Digital TV channels can broadcast audio that transmits several languages for a programme. You can set the TV to switch to your preferred language if it is available.

Set your language

To set your preferred audio language, press **⬆** and select **Setup > Channel settings** and select **Languages > Primary** and **Secondary audio**. The TV will automatically switch to one of your languages, if one of them is available.

To check if an audio language is available, press **≡ OPTIONS** 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 who are hearing or visually impaired. Read **Help > Setup > Universal access**.

Smart TV 3

Net TV 3.1

?What is Net TV

Net TV offers Internet applications called apps. These apps are tailored for your TV. With these apps you can read your national newspaper, look at infotainment, or rent a movie from a video store or watch programmes you missed with catch-up TV apps. A wide range of Net TV apps are available depending on your country.

Smart USB Recording

With your TV connected to the Internet, you can also record programmes from the TV programme guide. To record programmes, you must connect a USB Hard Disk Drive to your TV. (Only in selected countries)

Net TV specifics

- The availability of Net TV apps varies per country
- With Net TV, you can view any Internet website you like but most of them are not tailored for a TV screen and some plug-ins (e.g. to view pages or videos) are not available on your TV

- Net TV apps can be added, changed or stopped
- Net TV shows one page at a time and full screen
- You cannot download and save files or install plug-ins

Net TV forum website

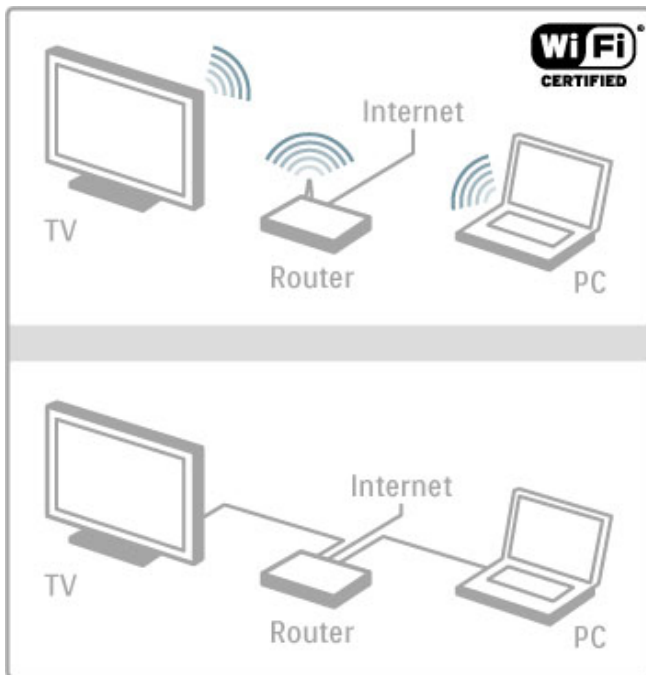
Find out more on Net TV apps at the Net TV forum website www.supportforum.philips.com

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

What you need

To enjoy Net TV you must connect the TV to a router with a high-speed (broadband) connection the Internet. You can use a home network connected to the Internet. You do not need a computer

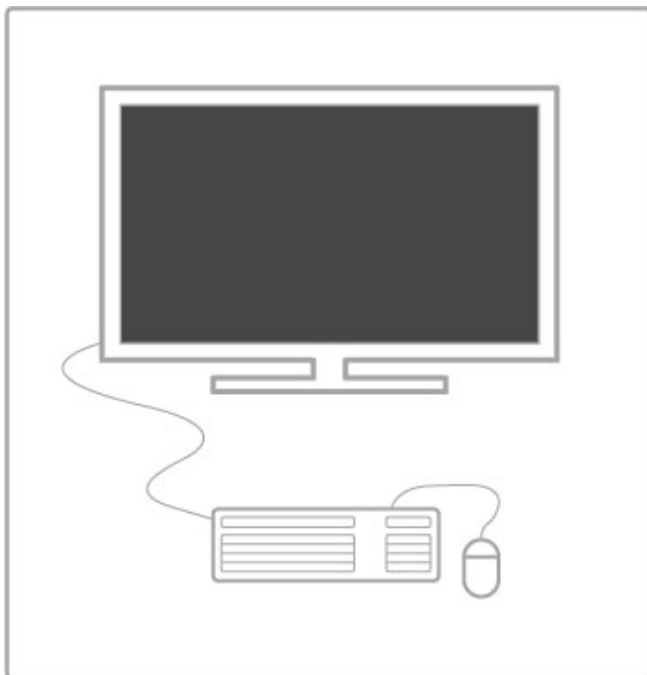
Read more about connecting to your home network in **Help > Setup > Network**



Keyboard and mouse

To enter text or to navigate a page, you can connect a USB keyboard and a USB mouse to the TV. The USB mouse can only navigate pages on the Internet, it cannot navigate Net TV app pages

Read more about connecting a keyboard or mouse in **Help > Connections > Connect more devices > Keyboard and mouse**



Configure

The first time you open Net TV, you must agree to the terms and conditions before you can continue. Press **OK** to agree. Press **↩** (Back) to quit Net TV

Register

If you agree, you can register with Club Philips. Select Register and press **OK**. Enter your email address, select **Continue** and press **OK**. Confirm the email address

Reload an app or page

To retry loading an app or an Internet page, press **≡**
.OPTIONS and select **Reload page**

Security info

To view the level of security of the page you're on, press **≡**
.OPTIONS and select **Security info**

Internet websites

To browse Internet websites, select the **Internet** app on the Net
.TV home page and press **OK**

To open the on-screen keyboard, select a text entry field and
.press **OK**

To remove a visited website from the list, press **≡** **OPTIONS**
and select **Remove from History**

Rent a movie

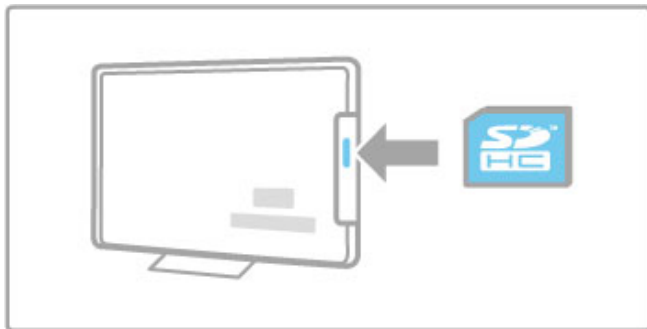
With the video store apps in Net TV, you can rent your
favourite movie from an online rental video store. You can pay
.securely with your credit card
.Open a video store app **1**
.Select a video **2**
.Make the online payment **3**
.Download the video **4**
.Start watching **5**

What you need

To rent and download a video, you need a high-speed
(broadband) Internet connection to the TV. You also need an SD
.memory card
Read more about connecting to the network in **Help > Setup >**
.Network

Video memory

To download a video, you must format an SD memory card as
video memory. Insert the SD card into the SD card slot on the
side of the TV. The TV starts formatting the SD card
automatically. The SD card may be rejected if the write speed is
insufficient for video transfer. Once formatted, leave the card
.permanently in the slot



SD memory card size

Use a SD HC (High Capacity) memory card with at least 4GB of
.storage capacity
For high-definition (HD) video, use an SD card with at least 8GB
.of storage capacity. Use a speed class 2 card or more

Open a video store app

To open a video store, press **⬆** (Home), select **Net TV** and
press **OK**. Select a video store app from the Net TV home
page. Select the video store and press **OK**. You can add a video
store app on your home page from the app gallery. Availability
.of video stores varies by country

Parental control

To lock Adult 18+ rated apps, switch on Net TV parental
control by selecting **Enable** and then press **OK**. Enter an unlock
.PIN code of your choice. Confirm your PIN code
.Adult 18+ rated apps are now locked

To open a locked app, select the app and press **OK**. The TV will
.ask you to enter your 4-digit code

Clear Net TV memory

To redo the Net TV configuration and to clear all passwords, PIN
codes, history and cookies, press **⬆** (Home), select **Setup >**
.Network settings > **Clear Net TV memory**

Net TV apps

Open Net TV

To open Net TV, press **⬆** (Home), select **Browse Net TV** and
.press **OK**

To close Net TV, press **⬆** (Home) and select another TV
.activity

The Net TV home page

.When you open Net TV, the home page is shown
.To navigate the page, press **▲**, **▼**, **◀** or **▶**
.To open an app, select the app and press **OK**
(To go back 1 step, press **↶** (Back)

The home page

The App Gallery **1**
Your Apps **2**
The Internet App **3**
Current TV channel **4**



The App Gallery

To look for apps to add to your home page, select **App Gallery**
and press **OK**
To add an app to the home page, select an app in the list and
.press **Add**
To search per category, select the category field (All) and press
OK

To open the on-screen keyboard, select a text entry field and
.press **OK**

To switch to the app gallery of another country, select the
.country field and press **OK**

Lock or remove an app

To lock or remove an app, select the app and press **≡**
.OPTIONS. Select the option and press **OK**

Rent a video

When you open a video store you will be asked to log in or to create a log in account. With a text entry field selected, press **OK** to open the on-screen keyboard.
.Consult the video store website for more information

Online TV

With the online TV apps in Net TV you can watch programmes you missed. Most often, you can recognise such an online TV app by its broadcaster's logo

What you need

To watch online TV programmes, you need a high-speed (broadband) Internet connection to the TV.
Read more about connecting to the network in **Help > Setup > Network**

Watch online TV

To watch an online TV programme in Net TV, press **⬆** (Home), select **Browse Net TV** and press **OK**. Select the broadcaster app on the Net TV home page and press **OK**. You can add a online TV broadcaster app on your home page from the app gallery

Start a programme

Select a programme from the online TV app page and press **OK**.
Most often, you can use the **▶** (Play) or **⏸** (Pause) keys on your remote control

Navigate MHP pages

You can use the navigation and colour keys, the number keys and the **↶** (Back) key to navigate the MHP pages. You can use the keypad on the remote control as you do for SMS/text messaging to enter text. Or press **OK** on a text entry field to open the on-screen keyboard

Auto start

The TV is set to load the MHP pages automatically. To avoid the automatic loading, you can switch off the MHP auto start

To switch off auto start, press **≡ OPTIONS**, select **MHP applications** and press **OK**. Select **Disable MHP auto start** to switch off the automatic loading

Select MHP applications

Some MHP pages might not launch. If so, you can try to launch the application from the MHP application list

Press **≡ OPTIONS**, select **MHP applications** and select **Disable MHP auto start**. This setting makes the individual application selectable. Select the desired application in the list and press **OK** to launch the application

Interactive TV 3.2

?What is iTV

With interactive TV, some digital broadcasters combine their normal TV programme with information or entertainment pages. On some pages, you can respond to a programme or vote, do online shopping or pay for a video-on-demand programme

...HbbTV, MHEG, MHP, DTVi

Broadcasters use various interactive TV systems : HbbTV (Hybrid Broadcast Broadband TV) or iTV (Interactive TV - MHEG). Interactive TV is sometimes referred to as Digital Text or Red button. But each system is distinct. Visit the broadcasters Internet website for more information

What you need

Interactive TV is only available on digital TV channels. To enjoy the full benefits of Interactive TV, you need a high-speed (broadband) Internet connection to the TV

Read more about connecting to the network in **Help > Setup > Network**

Open iTV pages

Most channels that offer HbbTV or iTV invite you to press the **red** key or **OK** key to open their interactive programme

Close iTV pages

Most iTV pages inform you which key to use to close (For Digital Text and Red button, press **↶** (Back) To force an iTV page to close, switch to the next TV channel and switch back

Navigate iTV pages

You can use the navigation and colour keys, the number keys and the **↶** (Back) key to navigate the iTV pages. You can use the **▶** (Play), **⏸** (Pause) and **■** (Stop) keys to watch videos within iTV pages

(Digital Text (UK only

(To open Digital Text, press **TEXT**. To close, press **↶** (Back)

HbbTV links

Some HbbTV pages have links to the Internet. Your TV switches to Net TV to view these Internet websites. To switch back to normal TV viewing, you might need to press **🏠** (Home) and select **Watch TV** again to continue watching the TV channel

Block HbbTV pages

To block the HbbTV pages from a specific channel, tune to the channel, press **≡ OPTIONS** and select **HbbTV on this channel** and select **Off**

To block HbbTV on all channels, press **🏠** (Home), select **Setup** and select **TV settings > HbbTV** and select **Off**

Open MHP pages

If you install the TV for the country of Italy, the MHP (Multimedia Home Platform) interactive applications are available

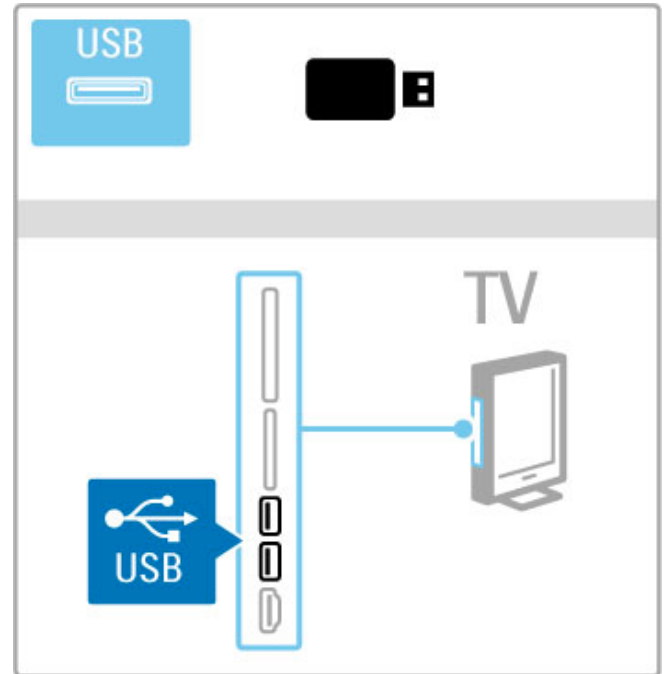
When you tune to a TV channel that offers MHP, wait for the MHP loading icon to fully load the application

To open the MHP pages, press the **red** colour key or press **Teletext**, depending on the application. To close MHP, press **Exit**

Browse USB

You can view photos or play your music and videos from a USB .memory device

Insert a USB device into the USB connection on the left-hand side of the TV while the TV is switched on. The TV detects the device and opens a list showing its content. If the list does not appear automatically, press **⬆**, select **Browse USB** and press **OK**.



To close Browse USB, press **⬆** and select another activity or .disconnect the USB device

View photos

To view photos, select a photo in the list and press **OK**. If there are more photos in the folder, the TV starts a slideshow with .these photos

.To stop, press **≡** **OPTIONS** and select **Stop**

.To pause or play the slideshow again, press **OK**

.To view the next photo, press **▶**

.To view the previous photo, press **◀**

Options for photos

:Press **≡** **OPTIONS** to select the following

- Show info •
- Stop •
- Play once / Repeat •
- Rotate •
- Shuffle on / off •
- Slideshow speed •
- Slideshow transition •
- Set as Scenea •

Shuffle on

.Plays the files randomly

Set as Scenea

.Sets the current photo as a wallpaper photo for Scenea

Play videos or music

To play videos or music, select the file in the list and press **OK**. If there are more music or video files in the folder, the TV plays .the files one after the other. To stop, press **≡** **OPTIONS**

.To pause or play, press **OK**

.To play the next file in the folder, press **▶**

.To play to the previous file, press **◀**

.To fast forward, press **▶▶**

.To rewind, press **◀◀**

Options for music and videos

:Press **≡** **OPTIONS** to select the following

- Stop •
- Play once / Repeat •
- Shuffle on / off •

Music with photos

You can play music and show photos at the same time. Start the .photo slideshow after you started the music
 .Select a folder with music files and press **OK** 1
 .Select a folder with photo files and press **OK** 2
 .To stop, press **≡** **OPTIONS** and select **Stop**

Screen off

If you only listen to music, you can mute the TV screen to save .energy

To mute the screen, press the **green** key, select **Screen off** and press **OK**. To switch the screen back on, press any key on the .remote control

See the list of compatible playback formats in **Help > Specifications > Multimedia**

Browse PC

You can view photos or play your music and videos from a PC in .your home network

The TV is DLNA certified and is compatible with other DLNA .certified devices

What you need

To browse your PC files, you need to connect the TV to your home network. Also, do not forget to set your media server .software to share the files with the TV

Browse PC

To browse your PC files, press **⬆**, select **Browse PC** and press **OK**

.To close Browse PC, press **⬆** and select another activity

If the network is not yet installed when you select Browse PC, the Network installation starts automatically. Follow the .instructions on screen

To select, view and play your files, read **Help > Smart TV > Videos, photos and music > Browse USB**

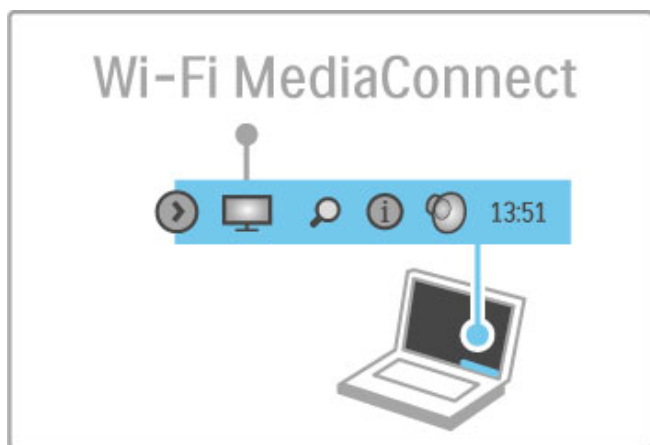
Find the list of compatible playback formats and compatible media .server software in **Help > Specifications > Multimedia**

Read more about connecting to a network in **Help > Setup > Network**

Scenea

With Scenea, you can set a photo as a painting on your TV .screen. Select your favourite photo from your collection

To open Scenea, press **⬆**, select **Scenea** and press **OK**. If you .did not yet select a photo of your own, a preset photo is shown
 .To close the Scenea photo, press a key on the remote control



Wi-Fi MediaConnect Help

To read the Wi-Fi MediaConnect Help, right-click the TV icon in the taskbar of the PC and select **Help**

Specifics

The playback of video can be affected by your PC performance and your wireless network bandwidth

You can project high definition (HD) or standard definition (SD) video, depending on the processing power of your PC

The content protection on most DVD or Blu-ray Disc movies might restrict watching the movie on a TV when the disc is playing on a PC

The TV shows PC media files with a small delay



Select a photo for Scenea

Select a photo from a connected USB device or from a connected PC. This photo must be in JPEG format. With the photo highlighted in the Browse USB or Browse PC list, press **≡ OPTIONS**, select **Set as Scenea** and press **OK**. By agreeing to overwrite the current photo, the new photo is set

Scenea lounge light

To switch off Ambilight when Scenea is on, press **⏻ ADJUST**. Or press **Ambilight** on the front of the TV

Energy saving

To switch the TV to the energy saving mode, press **⏻ ADJUST**, select **Smart picture** and press **OK**. Select **Energy saving**

Specifics

With Scenea switched on, the TV will automatically switch to standby after 4 hours. You will be warned 1 minute before switch off. This automatic switch to standby prevents unnecessary energy use in case you forget that Scenea is on

If the sleep timer is set, the TV will also switch to standby after the set time has elapsed. Scenea has no sound

Wi-Fi Media Connect

With Wi-Fi MediaConnect you can bring up (project) your PC screen on to the TV screen wirelessly. You can project video, music, presentations or other content playing on your laptop or desktop PC

Before you can project the PC screen on to TV, you must install the Wi-Fi MediaConnect software on your PC

Read more about installing the Wi-Fi MediaConnect software in **Help > Setup > Network > Wi-Fi MediaConnect**

Start projecting

To start projecting the PC screen on to the TV, click on the small TV icon in the taskbar at the bottom right of the PC screen. Your PC screen appears on your TV screen

Stop projecting

To stop projecting, click on the TV icon again

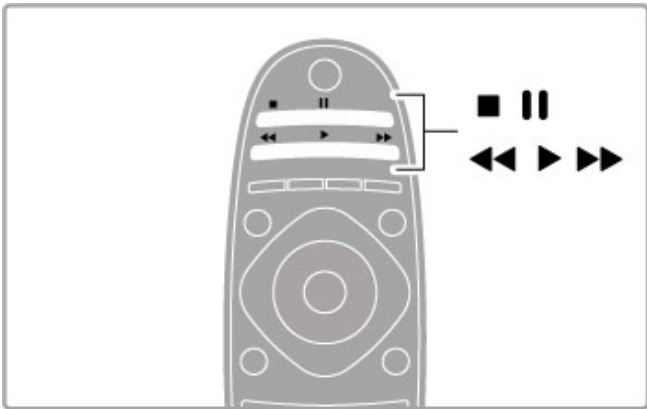
Warning

The USB Hard Drive is formatted exclusively for this TV, you cannot use the stored recordings on another TV or PC. Do not copy or change recording files on the USB Hard Drive with any PC application. This will corrupt your recordings. When you format another USB Hard Drive, the content on the former will be lost

Pause TV

While watching a TV broadcast from a digital channel, you can pause the broadcast and continue watching later on. Answer a phone call or take a break. Meanwhile, the broadcast is stored on the USB Hard Drive. You can pause a broadcast for a maximum time span of 90 minutes

To pause a TV broadcast, press **||** (Pause). A progress bar appears briefly on screen
To call up the progress bar, press **||** (Pause) again
(To continue watching, press **▶** (Play)
(To switch to TV broadcast again, press **■** (Stop)



Once you switch to a digital channel, the USB Hard Drive starts storing the broadcast. When you switch to another channel, the new channel broadcast is stored and the broadcast of the former channel is cleared. Also when you switch the TV to standby, the stored broadcast is cleared

When you start watching a programme of another device - a connected Blu-ray Disc player or digital receiver - the USB Hard Drive clears all broadcast storage
Whilst recording a programme on the USB Hard Drive, you cannot pause a TV broadcast

Instant replay

Whilst watching a TV broadcast from a digital channel, you can easily instant replay the broadcast
To replay the last 10 seconds of a TV broadcast, press **||** ((Pause) and press **◀** (Left
You can press **◀** repeatedly until you reach the start of the broadcast storage or the maximum time span

Progress bar

With the progress bar on screen, press **◀◀** (Rewind) or press **▶▶** (Forward) to select from where you want to start viewing the stored broadcast. Press these keys repeatedly to change their speed

Pause TV and recording 3.4

Smart USB recording

With this TV you can pause a TV broadcast from a digital channel. You can pause a TV broadcast to watch it later
Simply connect a USB Hard Drive device to your TV and you can pause the broadcast

If your TV is connected to the Internet, you can also record or set a programmed recording of a digital broadcast. In some countries, recording is not supported

What you need

Smart USB recording and Pause TV only work with digital TV channels (DVB broadcast or similar)

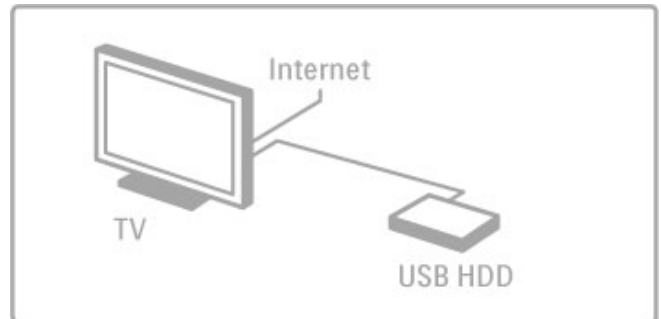
To pause

To pause a digital broadcast you need to connect a **USB Hard Drive**. Use a USB 2.0 compatible Hard Drive device with a minimum of 32GB Hard Drive space and a minimum writing speed of 30MB/s. Connect the USB Hard Drive to one of the two USB connectors on the side of the TV

To record

First, check if the Programme guide supports recording. With the Internet connected, press **🏠** and select **Programme guide**. If there is a **Recordings** button on the Programme guide page, you can record programmes

To record programmes, you need a USB 2.0 compatible Hard Drive with 250GB and a high-speed (broadband) Internet connection to the TV
Read more about connecting to the network in **Help > Setup > Network**



USB Hard Drive installation

Before you can pause or record a broadcast, you must format the connected USB Hard Drive
Connect the USB Hard Drive to one of the two USB ports on **1** the side of the TV. Do not connect another USB device to the other USB port when formatting

Switch on the device and the TV **2**
When the TV is tuned to a digital TV channel, press **||** (Pause) **3** to start formatting. Formatting will remove all data from the connected USB Hard Drive. Follow the instructions on screen
When the USB Hard Drive is formatted, leave the device connected permanently

List of recordings

To view the list of recordings and scheduled recordings, select **Recordings** on the Programme guide page and press **OK**. In this list, you can select a recording to watch, remove recorded programmes, check the free drive space or schedule a recording .not linked to a specific TV programme

Expired recording

Broadcasters can limit the number of days a recording can be viewed. A recording in the list can show the number of days .before it expires

Failed recording

When a scheduled recording was prevented by the broadcaster or when the download was interrupted, a recording is marked as **Failed**

Watch a recording

In the list of recordings, select the arrow in front of the recording and press **OK**. The playback of the recording starts. You can use the ► (Play), ►► (Forward), ◀◀ (Rewind), || (Pause) or ■ (Stop) keys on the remote control

Set a timed recording

To set a recording not linked to a programme, select **Schedule recording** above the list of recordings and press **OK**. Set the channel, date and time span. To confirm the recording, select **Schedule** and press **OK**

Remove a scheduled recording

To remove a scheduled recording, select the red circle in front .of the recording and press **OK**

Delete a recording

To remove a recording, select the recording in the list and press .:≡ **OPTIONS** and select **Delete recording**

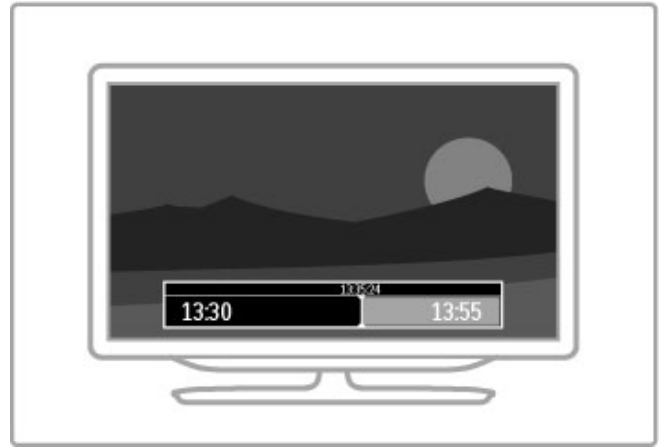
Programme information

To view more information on a programme, select the programme in any programme guide list and press **OK**. Depending on the status of this programme you can start watching, schedule its recording, playback the recording or delete .the recording from this page

Specifics

- While recording a programme, you can watch a previously .recorded programme
- .While recording, you cannot switch TV channels
- .While recording, you cannot pause the TV broadcast

The Audio Description audio (commentary) for the visually .impaired is not available for playback in Smart USB Recording



Specifics

The Audio Description audio (commentary) for the visually .impaired is not available for playback in Smart USB Recording

Recording

If the TV is connected to the Internet and there is a **Recordings** button on the Programme guide page, you can record a digital .TV broadcast on the USB Hard Drive .You can manage all recordings in the **Programme guide** on TV

If the **Recordings** button is not available, check if the Programme guide data is set to update from the network. Press **Home** and select **Setup > TV settings > Preferences > Programme guide > From network**

Record now

To record the programme you are watching, press ● (Record). While the recording has already started, you can adjust the end time of the recording in the pop-up window of the Programme .guide. Press **Schedule** to confirm the end time

.To stop recording immediately, press ■

Schedule a recording

You can schedule a recording of an upcoming programme for .(today or a few days from today (maximum of 8 days away

To schedule a recording, press **Home** and select **1 Programme guide**. On the Programme guide page, select the .channel and programme you wish to record

You can enter the channel number to jump to the channel in the list. Press ► (Right) or ◀ (Left) to scroll the programmes of a .channel

To change the date of the list, select the date at the top of the page and press **OK**. Select the day you want and press **OK** .again

With the programme highlighted, press :≡ **OPTIONS** and **2** select **Record**. The TV adds some time buffer at the end of the .program. You can add some extra buffer if needed

Select **Schedule** and press **OK**. The programme is scheduled **3** for recording. A warning will show automatically when .overlapping recordings are scheduled If you plan to record a programme in your absence, remember to leave the TV on standby and the USB Hard Drive switched .on

Play a game

What you need

With this TV, use the two-player kit with 2 passive 3D glasses -
(Philips PTA436 (sold separately
For two-player split screen gaming, the game console must be
connected with HDMI

Start a two-player game

Select the game console in the **Home** menu and press **OK**
On the game console, start the game and select the multi or 2
two-player mode. Select the mode for split screen viewing
On the TV, press **ADJUST** and select **Two-player game**

Select the format in which the split screen game is shown on 4
screen, **Side by side** or **Top / bottom** and press **OK**. The TV
shows the 2 screens as full screens
To watch the 2 different screens, each player puts on one of the
glasses - player 1 or player 2

In and out of split screen view

In two-player split screen view, you can switch back and forth
from split screen to combined view, to be able to read the game
menu or game scores
To switch views back and forth, press **OK** on the remote
control of the TV

Stop Two-player game

To stop the two-player split screen view, press **Home** and
select another activity

Specifics

To make Two-player gaming available in the menu, select **3D** in
the same menu, select **2D** in the list and press **OK**

Smart setting - Game

The Smart picture setting **Game** sets the TV to the ideal Game
settings without picture lag
If your game console is added as Game in the Home menu, the
TV switches to the Game setting automatically

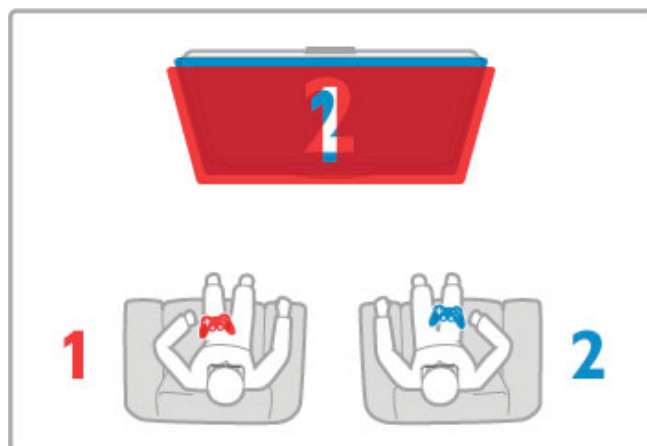
If your game console has added itself in the Home menu as a
Blu-ray Disc player or **DVD player**, you need to switch the
Smart picture setting to **Game** before you start playing

To switch the Smart picture setting to Game, press **ADJUST**
and select **Smart picture** > **Game** and press **OK**. The TV is ready
for gaming. Do not forget to switch back to your normal Smart
picture setting when you stop gaming

Read more about how to connect a game console in **Help** >
Connections > **Connect more devices** > **Game** or **HD Game**

Two-player games

Some games offer multi-player and split screen gaming. On this
TV, you can set the split screen as two full screen views. Two
players watch the same TV but see two different screens to play
the game. The TV uses 3D technology to do this. To watch each
screen, you need a pair of 3D glasses for each player



Search Text

You can select a word and scan Text for all occurrences of this word.

Open a Text page and press **OK**. Select a word or number with the navigation keys. Now press **OK** again to jump immediately to the next occurrence of this word or number. Press **OK** again to jump to the subsequent occurrence.
To stop the search, press **▲** until nothing is selected.

Text from a connected device

Some connected devices that receive TV channels can also offer Text.

To open Text from a connected device, press **▲**, select the device and press **OK**. While watching a channel on the device, press **≡** **OPTIONS**, select **Show device keys** and select the **≡** key and press **OK**. Press **↶** (Back) to hide the device keys.
To close Text, press **↶** (Back) again.

(Digital Text (UK only

Some digital TV broadcasters offer dedicated Digital Text or interactive TV on their digital TV channels. This includes normal Text using the number, colour and navigation keys to select and navigate.

(To close Digital Text, press **↶** (Back)

Text options

In Text, press **≡** **OPTIONS** to select the following

- Freeze page •
- Dual screen •
- T.O.P. overview •
- Enlarge •
- Reveal •
- Cycle subpages •
- Language •

Freeze page

To stop the automatic rotation of subpages, press **≡** **OPTIONS** and select **Freeze page**.

Dual screen / Full screen

To show the TV channel and Text alongside each other, press **≡** **OPTIONS** and select **Dual screen**. Select **Full screen** to switch back to full screen view.

T.O.P. overview

To open T.O.P. Text, press **≡** **OPTIONS** and select **T.O.P. overview**.

Enlarge

To enlarge the Text page for more comfortable reading, press **≡** **OPTIONS** and select **Enlarge**. To scroll down the page, press **▼** or **▲**.

Reveal

To unhide hidden information on a page, press **≡** **OPTIONS** and select **Reveal**.

Cycle subpages

To cycle subpages when these are available, press **≡** **OPTIONS** and select **Cycle subpages**.

Language

To switch the group of characters that Text uses to display correctly, press **≡** **OPTIONS** and select **Language**.

Text setup

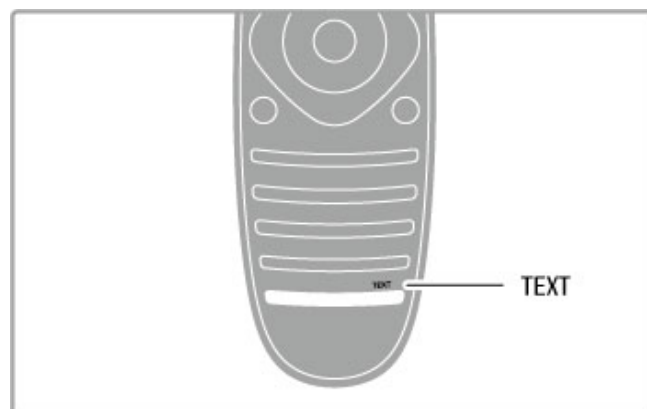
Text 3.6

Text pages

Open Text

To access Text while you are watching TV channels, press **TEXT**.

To close Text, press **TEXT** again.



Select a Text page

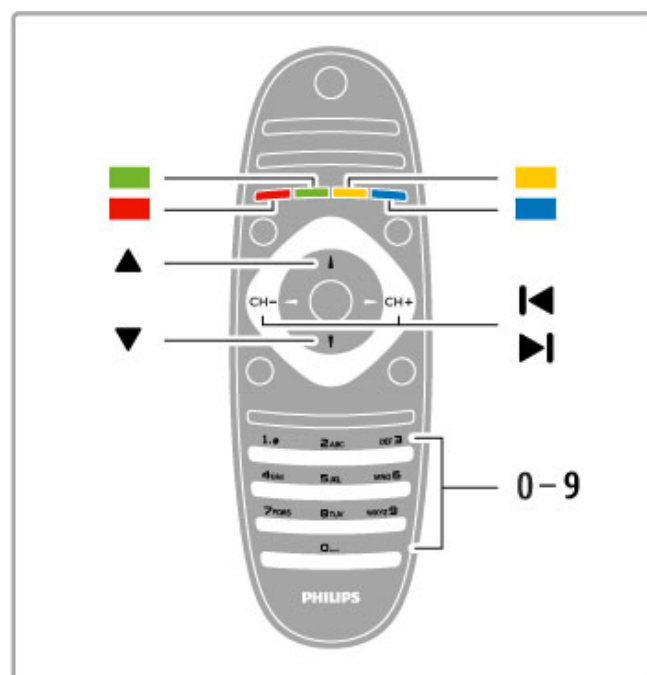
... To select a page

Enter the page number with the number keys •

Press **▶** or **◀** •

Press **▲** or **▼** •

Press a colour key to select a colour-coded subject at the bottom of the screen •



Text sub-pages

A Text page number can hold several subpages. The subpage numbers are shown on a bar next to the main page number.

To select a subpage, press **◀** or **▶**.


T.O.P. Text pages

Some broadcasters offer T.O.P. Text

To open T.O.P. Text pages within Text, press **≡** **OPTIONS** and select **T.O.P. overview**.

Text language

Some digital TV broadcasters have several Text languages available

To set your primary and secondary Text language, press  > **Set up** > **Channel settings** and select **Primary** or **Secondary Text** and select your preferred Text languages

Text 2.5

If available, Text 2.5 offers more colours and better graphics. Text 2.5 is activated as a standard factory setting

To switch it off, select  > **Setup** > **TV settings** > **Preferences** > **Text 2.5**

Picture

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

To open the Picture settings, press **Home** > **Setup** > **TV settings** > **Picture**.

Contrast •

Sets the contrast level of the picture.

Brightness •

Sets the brightness level of the picture.

Colour •

Sets the level of colour saturation.

Hue •

If NTSC is broadcast, hue compensates the colour variations.

Sharpness •

Sets the level of sharpness of fine detail.

Noise reduction •

Filters out and reduces the image noise in the picture.

Tint •

Sets the colours to **Normal**, **Warm** (reddish) or **Cool** (bluish).

Select **Custom** to set up your own personal settings in the

Custom menu.

Custom tint •

Use the slider bar to set the colour temperature of the picture.

Pixel Precise HD •

Controls the advanced settings of the Perfect Pixel HD Engine.

Perfect Natural Motion removes motion judder and —

reproduces smooth movement, especially in movies.

Clear LCD gives a superior motion sharpness, better black —

level, high contrast with a flicker-free, quiet image and a larger

viewing angle.

Super resolution enables superior sharpness, especially on —

lines and contours in the picture.

Perfect 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.

Gamma is a non-linear setting for picture luminance and —

contrast. Use the slider bar to set a higher or lower gamma

value.

PC mode •

Sets the TV to the ideal pre-defined computer setting if a

computer has been connected.

Light sensor •

Adjusts the picture and Ambilight settings automatically to the

lighting conditions of the room.

Picture format •

Read **Help** > **Basics** > **Watch TV** > **Picture format**.

Screen edges •

Slightly enlarge the picture to hide distorted edges.

Picture shift •

Move the picture up / down or left / right with the cursor keys.

Sound

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

To open Sound settings, press **Home** > **Setup** > **TV settings** > **Sound**.

Bass •

Sets the level of low tones in the sound.

Treble •

Sets the level of high tones in the sound.

Surround •

Sets the surround sound effect from internal speakers.

Headphones volume •

Sets the volume for the headphone connection of the TV.

Auto volume levelling •

Reduces sudden volume differences like at the beginning of

adverts or when switching from one channel to another.

Balance •


Sets the balance of the left and right speakers to best fit your

listening position.

Eco settings

Eco settings bundle the TV settings that help the environment.

While you are watching TV channels, press the **Green** key to

open **Eco settings**. Active settings are marked with a .

Press again to close.

Energy saving

This Smart picture setting sets the picture, together with

Ambilight, in the most ideal energy conscious setting. To switch

on, select **Energy saving** in Eco settings and press **OK**.

To switch off Energy saving, select another Smart picture setting.

Screen off

If you only listen to music, you can switch off the TV screen to

save energy. Select **Screen off** and press **OK**. To switch the

screen back on, press any key on the remote control.

Light sensor

The built-in light sensor automatically adjusts the picture, together

with Ambilight, to the lighting conditions of the room. To switch

on, select **Light sensor** and press **OK**. To switch off, press **OK**

again.

Auto switch off

If no keys on the TV remote control were pressed during a 4-

hour period, the TV switches off automatically to save energy.

You can switch off this **Auto switch off**.

If you use the TV as a monitor or use a digital receiver to watch

TV (a set top box - STB) and you do not use the remote

control of the TV, switch off the automatic switch off.

Smart settings

If you select a Smart setting in the ADJUST menu, you can again

change the settings of the selected Smart setting with the Picture

and sound settings in Setup. The Smart setting remembers your

changes.

Reset a Smart setting

To reset a Smart setting to its original values, select the Smart setting you want to reset in the ADJUST menu. Then press **⬆** > **Setup** > **TV settings** > **Picture**, select **Reset**, press **OK** and confirm.

Read more about using Smart picture and sound settings in **Help** > **Basics** > **Watch TV** > **Smart picture and sound settings**

ISF Calibration

Get the most out of your HD TV display with ISF Calibration. An ISF calibration expert comes to your home and sets the TV to the most optimal picture setting. Additionally the expert can set an ISF Calibration for Ambilight. Ask your dealer for an ISF Calibration of your TV



The ISF Calibration expert stores and locks the ISF settings as 2 Smart picture settings. Once the ISF Calibration is done, press **⬆** **ADJUST**, select **Smart picture** and press **OK**. Select **ISF Day** to watch TV during bright light conditions or select **ISF Night** for dark light conditions.

An ISF Calibration can be done on every activity in the Home menu, like Watch TV or a connected Blu-ray Disc player.

- ... Calibration benefits are
- better picture clarity and sharpness
 - better detail in bright and dark parts
 - deeper and darker blacks
 - better colour purity and quality
 - reduced energy consumption

Expert picture settings

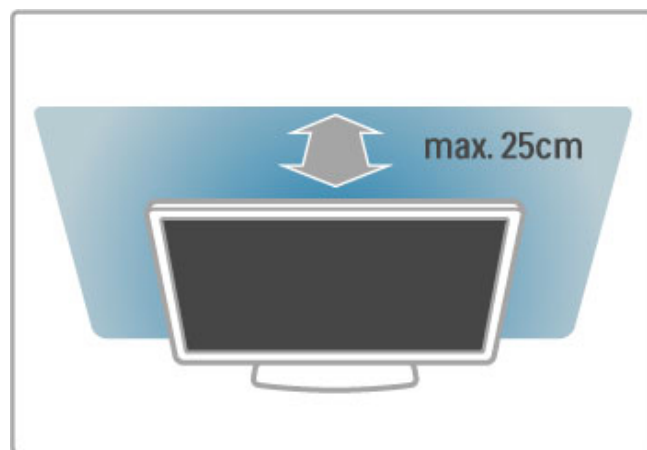
When **ISF Day** or **ISF Night** is selected while an ISF Calibration is not yet performed on the TV, some expert picture settings are available. Press **⬆** (Home) > **Setup** > **TV settings** > **Picture** > **ISF expert settings** and press **OK**.

Reset Smart picture settings

To reset a Smart setting to its original values, select the Smart setting you want to reset in the ADJUST menu. Then press **⬆** (Home) > **Setup** > **TV settings** > **Picture**, select **Reset**, press **OK** and confirm.

: For the best Ambilight effect

- Dim the lighting conditions in the room and position the TV
- up to 25 cm away from the wall
- Adjust Ambilight according to the colour of your wall at home
- in the Wall colour setting
- To prevent poor infrared remote control reception, position your devices out of sight of Ambilight

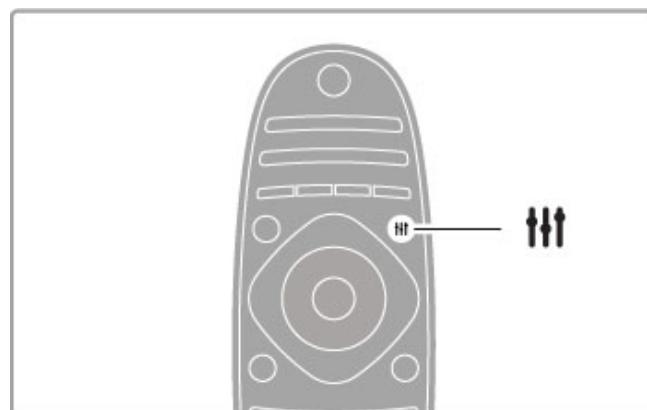


Adjust

To open the Adjust menu, press **|||| ADJUST**. To close, press **||||** again.

Switch Ambilight on or off

In the Adjust menu, select **Ambilight** and press **OK**. Switch **Ambilight On** or **Off**. You can also press Ambilight on the TV.



Ambilight dynamic

In the Adjust menu, select **Ambilight dynamic** and press **OK**. Adjust the speed at which Ambilight responds to onscreen images.

Read more about other Ambilight settings in **Help > Setup > Ambilight > Settings**.

Settings

More Ambilight settings are available in the Ambilight settings menu in Setup. To change these settings, press **⬆** and select **Setup > TV settings > Ambilight**.

Ambilight brightness

To set the Ambilight brightness, select **Ambilight brightness** and press **OK**. Adjust the light output of Ambilight.

Ambilight colour

To set the Ambilight colour, select **Ambilight colour** and press **OK**. Select **Dynamic**, if Ambilight should respond to onscreen images or select one of the fixed colours. Select **Custom** if you want to set a specific fixed colour.

Custom colour

To set an Ambilight colour of your own, select **Custom** in the Ambilight **Colour** menu. With Custom selected, you can open the **Custom colour** menu. Select **Palette** to choose your own colour. Ambilight Custom colour is a fixed (non-dynamic) colour setting.

Separation

To set the difference in colour level between the lights on each side of the TV, select **Separation**. Separation **Off** gives a dynamic but uniform Ambilight colour.

TV switch off

To set Ambilight to fade out and switch off a few seconds after you have switched off the TV, select **TV switch off**. Allow Ambilight to fade out and switch off completely before you switch the TV back on again.

Lounge light mood

Read more about Lounge light mood in **Help > Setup > Ambilight > Lounge light mood**.

Scenea lounge light

To always switch off Ambilight when Scenea is switched on, select **Scenea lounge light** and select **Off**.

Wall colour

The colour of the wall behind your TV can influence the colour effect of Ambilight. To correct this influence, select **Wall colour** and select a colour that matches the wall colour. Ambilight will correct its colours to mix best with the colour of the wall behind the TV.

Lounge light

When the TV is on standby, you can switch Ambilight on and create a Lounge light effect in your room.

To switch Ambilight on while the TV is on standby, press **Ambilight** on the TV.



To change the Lounge light colour scheme, press **Ambilight** on the TV again.

To switch off Lounge light, press and hold **Ambilight** on the TV for 3 seconds.

.You can also set up the colour scheme in the Setup menu
With the TV switched on, press **⬆** and select **Setup**. Select **TV
settings > Ambilight > Lounge light mood**. Select the colour
.scheme with which Lounge light will start up

Reorder and rename

.You can reorder and rename channels in the Channel list

To reorder or rename a channel, read **Help > Basics > Watch TV > Channel list**

Update channels

The TV puts all installed channels in the Channel list. If you receive digital channels, you can set the TV to automatically update the list with new channels. You can also start an update of the Channel list yourself

Automatic channel update

Once a day, at 6 AM, the TV updates the channels and stores new channels. Empty channels are removed. For new or removed channels, a message is shown at TV start up. The TV must be in standby to automatically update channels

To switch off the message at start up, press **Home > Setup > Channel settings** and press **OK**. Select **Channel installation > Channel update message** and select **Off**

To switch off the automatic channel update, press **Home > Setup > Channel settings** and press **OK**. Select **Channel installation > Automatic channel update** and select **Off**

Start an update

To start an update yourself, press **Home > Setup > Search for channels** and press **OK**. Select **Update channels** and press **OK**. Press **Start**. The update can take a few minutes. Follow the instructions on screen

Reinstall channels

Reinstall channels

To reinstall only the channels, press **Home > Setup > Search for channels > Reinstall channels** and press **OK**. Select **DVB-T** or **DVB-C**. The channel search can take a few minutes. Follow the instructions on screen

Full installation

To redo a full TV installation, press **Home > Setup > TV settings > Reinstall TV** and press **OK**. The installation can take a few minutes. Follow the instructions on screen

.You can reorder and rename channels in the Channel list

Channel list copy

.Channel list copy is intended for dealers and expert users

With Channel list copy, you can copy the channels installed on one TV onto another Philips TV of the same range. With Channel list copy, you avoid the time-consuming channel search and you can offer a predefined channel list setup. The small file you copy fits every USB memory device

Conditions

.Both TVs are from the same year range • Both TVs have the same product type suffix for DVB (H, K, M, T or D/00) in their type number and have the TV installed for the same country

Both TVs have the same hardware type. Check the hardware type on the TV type plate on the back of the TV. Typically noted as Q . . . LA

Both TVs have compatible software versions. When you upload, an on-screen message will warn you if software versions are not compatible

Copy a Channel list

Switch on the TV which has its channels installed. Plug in a USB memory device

Press **Home > Setup > TV settings > Preferences > Channel list 2 copy > Copy to USB** and press **OK**. To copy the Channel list from this TV, you might be asked to enter the TV PIN code you entered during the installation

.When copying is done, unplug the USB memory device 3

Now you can upload the copied Channel list onto another Philips TV

Upload a Channel list

To a TV that's not yet installed

Plug in the power plug to start the installation and select 1 language and country. You can skip Search for channels. Finish the installation

Plug in the USB memory device that holds the Channel list of 2 the other TV

To start the Channel list upload, press **Home > Setup > TV 3 settings > Preferences > Channel list copy > Copy to TV** and press **OK**. You might be asked to enter the TV PIN code of this TV

The TV notifies if the Channel list is copied to the TV 4 successfully. Unplug the USB memory device

To an already installed TV

Verify the country setting of the TV. (To verify this setting, 1 press **Home > Setup > Search for channels > Reinstall channels** and press **OK**. Press **Back** and later **Cancel** to leave the (Search for channels

If the country is correct continue with step 2 hereunder
If the country is not correct, you need to start a reinstallation. To start the reinstallation, press **Home > Setup > TV settings > Reinstall TV** and press **OK**. Select the correct country and skip the Search for channels. Finish the installation. When done, return to step 2

Plug in the USB memory device that holds the Channel list of 2 the other TV

To start the Channel list upload, press **Home > Setup > TV 3 settings > Preferences > Channel list copy > Copy to TV** and press **OK**. You might be asked to enter the TV PIN code of this TV

The TV notifies if the Channel list is copied to the TV 4 successfully. Unplug the USB memory device

DVB-T or DVB-C

If both DVB-T and DVB-C reception is available in your country and if this TV is ready to receive DVB-T and DVB-C for your country, you will have selected one or the other during the channel installation

Store 4

You can store the channel on the current channel number or as a new channel number. Select **Store current channel** or **Store as new channel**.

You can redo these steps until you found all available analogue TV channels.

Clock settings

In some countries, digital broadcasts do not send UTC - Coordinated Universal Time information. The daylight saving change might be ignored and the TV might show an incorrect time.

To correct the TV clock, press **Home** > **Setup** > **TV settings** > **Preferences** > **Clock** and select **Country dependent**. Select **Daylight saving** and select the appropriate setting. To set the time and date manually, select **Manual**. Then select **Time** or **Date**.

If you want to change the DVB setting to start a new channel installation, press **Home** > **Setup** > **Channel settings** and press **OK**. Select **Channel installation** > **Antenna or Cable DVB** and press **OK**. Select the DVB setting you want.

DVB-C channel installation

For ease of use, all DVB-C settings are set to automatic. If your DVB-C provider gave you specific DVB-C values, like a symbol rate or a frequency, enter these values when the TV asks for them during installation.

DVB-T + DVB-C

You can set up your TV for DVB-T and DVB-C. Install one system followed by the other. When both installations are complete, the Channel list will show both DVB-T and DVB-C channels.

Reception quality

If you receive digital channels, you can check the quality and signal strength of a channel. If you use an antenna, you can reposition the antenna to try and improve the reception.

To check the reception quality of a digital channel, switch to the channel and press **Home** > **Setup** > **Channel settings** and press **OK**. Select **Channel installation** > **Digital : reception test** and press **OK**.

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

To enter a specific digital frequency yourself, select the frequency, position the arrows on a number with **Right** and **Left** and change the number with **Up** and **Down**. To check the frequency, select **Search** and press **OK**.

If you use DVB-C to receive channels, the options **Symbol rate mode** and **Symbol rate** are available. For Symbol rate mode, select **Automatic**, unless your cable provider gave you a specific symbol rate value. To enter the symbol rate value, use the number keys.

Manual installation — Analogue

Analogue TV channels can be manually tuned in channel by channel.

To install analogue channels manually, press **Home** > **Setup** > **Channel settings** and press **OK**. Select **Channel installation** > **Analogue : manual installation** and press **OK**.

System 1

To set up the TV system, select **System** and press **OK**. Select your country or part of the world where you are now.

Find channel 2

To find a channel, select **Find channel** and press **OK**. Select **Search** and press **OK**. You can also enter a frequency yourself. If the reception is poor, press **Search** again. If you want to store the channel, select **Done** and press **OK**.

Fine tune 3

To fine tune a channel, select **Fine tune** and press **OK**. You can fine tune the channel with **Up** or **Down**. If you want to store the channel found, select **Done** and press **OK**.

Benefits

Browse PC

If you connect the TV to a home network, you can play photos, music and videos from your computer or storage device. Once the network is installed on the TV, you can find and play the files from your PC on the TV screen.

Net TV

If you connect the TV to a home network with an Internet connection, you can link up the TV to Net TV. Net TV offers Internet services and websites tailored to your TV. Play music and videos, consult infotainment, rent movies and much more. Once the network is installed, you can enjoy the best of the Internet for your TV.

Interactive TV

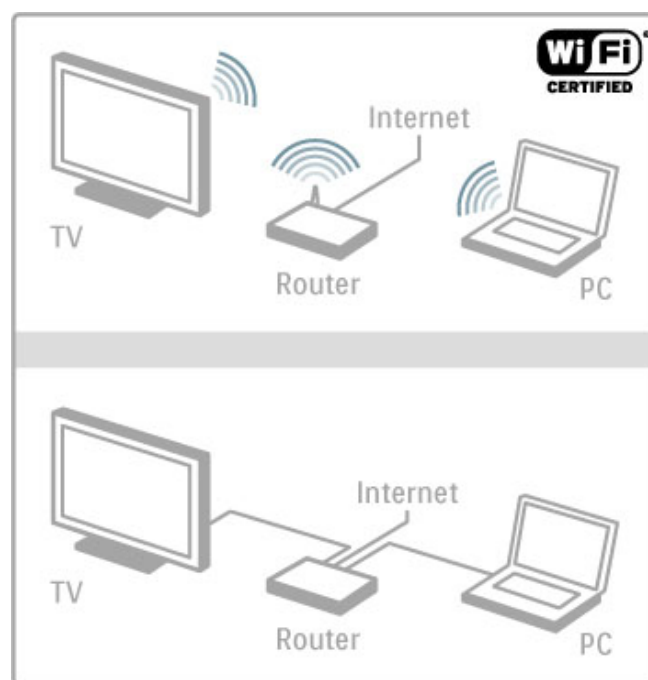
With the TV connected to the Internet, you can enjoy the full benefits of Interactive TV. Systems such as HbbTV, MHP, etc use the Internet to communicate with the TV.

Wi-Fi MediaConnect

With Wi-Fi MediaConnect you can bring up (project) your PC screen on the TV screen wirelessly. You start Wi-Fi MediaConnect from your PC.

What you need

To connect the TV to a home network and the Internet, you need a router in your home network. The router must be set to DHCP server on. Use a router with a high-speed (broadband) connection to the Internet. You can connect the TV wirelessly or wired.



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

The TV uses a DLNA-certified protocol. You can use a computer with Microsoft Windows XP, Vista or Windows 7, Intel Mac OS.X or Linux as the operating system.

Find your PC files

To select your PC files on screen, you need recent media server software on your computer, like Windows Media Player 11 or similar. To find your files on the TV, some media server software must be set up to share the PC files with the TV.

Find the list of supported media server software in **Help > Specifications > Multimedia**.

Wireless installation

Switch on your router before you start the network installation.

To start the wireless network installation, press **Home**, select **Setup > Connect to network** and press **OK**. Follow the instructions on screen.

WPS - Wi-Fi Protected Setup

If your router has WPS (Wi-Fi Protected Setup), go to the router and press the WPS button. Return to the TV within 2 minutes, select **WPS** and press **OK**. The TV connects to your network. This takes about 2 minutes. Finish the installation.

Most new wireless routers have the WPS system and carry the WPS logo. The WPS system uses WPA security encryption and cannot be combined with devices on your network that use the WEP security encryption. If you still need this WEP device in your network, install with **Scan > Standard**.

Scan for routers

If you have several routers in your network, you can select the network you need. To select a specific network router, press **Scan** on the first page of the installation. The routers with WPS and with the strongest signal are shown first in the list.

Select the router you need and press **WPS** if the router has WPS. Or press **Pin code** if you can enter the PIN code in your router software to connect. Or press **Standard** to enter the encryption key manually.

PIN code

To make the secured connection with a PIN code, select **PIN code** and press **OK**. Write down the 8-digit PIN code shown and enter it in the router software on your PC. See the router manual where to enter the PIN code.

Standard

To enter the encryption key (the security key) manually, select **Standard** and press **OK**. If you have WPA security on your router, enter the passphrase with the remote control. To open the on-screen keyboard, select the text entry field and press **OK**.

If you have WEP security encryption, 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. If the security key is accepted, the TV is connected with the wireless router.

If asked, agree to the End User License Agreement.

Wi-Fi Media Connect

With Wi-Fi MediaConnect you can bring up (project) your PC screen on the TV screen wirelessly. With the supplied Wi-Fi MediaConnect CD-ROM you can download the software for free. Wi-Fi MediaConnect is only available for PC.

You can view the network type, IP and MAC address, the signal strength, speed and encryption method etc. You can set DHCP and Auto IP, the IP configuration settings, DMR and the TV .network name

What you need

To use Wi-Fi MediaConnect, you need to connect the TV to .your home network. You need a wireless router
Read more about connecting to a network in **Help > Setup > .Network**

Install Wi-Fi MediaConnect

.Insert the Wi-Fi MediaConnect CD-ROM into your PC **1**
Your PC starts your Internet browser and opens the Wi-Fi **2**
MediaConnect download page -
www.philips.com/wifimediconnect. On the website, you can
.check the necessary PC system requirements

.Enter the code printed on the CD-ROM envelope **3**
Click the 'Download now' button to download the free Wi-Fi **4**
.MediaConnect software
Once downloaded, start the file 'Wi-Fi **5**
.MediaConnect_setup.exe'. Follow the instructions on screen

TV network name

If you have more than one TV in your home network, you can rename this TV. To rename this TV in the network, press **⬆** >
Setup > Network settings and select **TV network name**. To enter the name, press **OK** to open the on-screen keyboard or .use the remote control keypad

To use Wi-Fi MediaConnect on your PC read **Help > Smart TV > Videos, photos and music > Wi-Fi MediaConnect**

PC requirements

(Windows XP, Vista, Windows 7 (PC only)

Minimum PC requirements

- Intel® Pentium Core™ 2 Duo 1.8GHz •
- 512MB RAM •
- 200MB free hard disk space •
- Wi-Fi 802.11g •
- Broadband Internet connection •

Recommended PC requirements

- Intel® Pentium Core™ 2 Duo 2.1GHz •
- 1GB RAM •
- 200MB free hard disk space •
- Wi-Fi 802.11n for router and PC •
- Broadband Internet connection •

Wired installation

Connect the router to the TV and switch on your router before .you start the network installation

To start the network installation, press **⬆** , select **Setup > Connect to network** and press **OK**. Follow the instructions on .screen

The TV constantly searches for a network connection. The router .must be set to DHCP server on

.If asked for, agree to the End User License Agreement

Read more about how to connect in **Help > Connections > .Network > Wired**

Network settings

To open the Network settings, press **⬆** > **Setup > Network .settings** and press **OK**


EasyLink HDMI-CEC

With EasyLink HDMI-CEC your TV and the connected devices can work together. You can use the TV remote control to operate EasyLink devices. The device needs to be connected with an HDMI cable. Devices with EasyLink appear automatically in the .Home menu


Setup

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

Switch off EasyLink RC

If you don't want to operate devices with the TV remote .control, you can switch off EasyLink remote control separately. Press Home  > **Setup** > **TV settings** and select **EasyLink** > **EasyLink Remote Control** and select **Off**

Switch off EasyLink

To switch off EasyLink completely, press Home  > **Setup** > **TV settings** and select **EasyLink** > **EasyLink On/Off** and select **Off**

HDMI-CEC on other brands

The HDMI-CEC functionality has different names on different brands. Some examples are: Anynet, Aquos Link, Bravia Theatre Sync, Kuro Link, Simplink and Viera Link. Not all brands are fully .compatible with EasyLink

Read more about using EasyLink in **Help** > **Basics** > **Remote .control** > **Operate devices**

Add a new device


Devices connected with EasyLink HDMI-CEC automatically show their activity in the Home menu. A single device can add several .activities. The device must be connected with an HDMI cable. If your connected device does not appear in the Home menu, .on the device EasyLink may be switched off

If your connected device does not have EasyLink or is not connected with an HDMI cable, you need to manually add your .device with **Add your devices** in the Home menu

Add your devices

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 connection to .which the device is connected. The device or its activities are now added to the Home menu

Rename a device

To rename a device in the Home menu, select the device and press  **OPTIONS** and select **Rename**. Use the keypad on the remote control as you do for SMS/text messaging to enter the .new name or press **OK** to open the on-screen keyboard

Delete a device

To delete a device or activity from the Home menu, select the item and press  **OPTIONS** and then select **Remove this .device**

If the device or activity, keeps appearing in the Home menu after you deleted it, switch off the EasyLink setting on the device to .prevent the icon from being automatically added again

Audio to Video sync


With a Home Theatre System (HTS) connected to the TV, the picture on TV and the sound from the HTS should be synchronised. A mismatch can be visible in scenes with people .talking. When they finish sentences before their lips stop moving


Automatic audio to video sync

With recent Philips Home Theatre Systems, the audio to video .sync is automatically synchronised and always correct

Audio sync delay


Other Home Theatre Systems might need to adjust the audio sync delay to synchronise the audio to video. On the HTS, increase the delay value until there is a match between picture and sound. A delay value of 180ms may be required. Read the .user manual of the HTS

With a delay value set up on the HTS, you need to switch off **Audio Out delay** on the TV if the HTS sets an identical delay for all its incoming audio. To switch off Audio Out delay, press  and select **Setup** > **TV settings** > **Preferences** > **Audio Out .delay**. Select **Off** and press **OK**

If you cannot set up a delay on the HTS or its maximum setting is insufficient, you can switch off the Perfect Natural Motion picture processing of the TV. To switch off Perfect Natural Motion, press  and select **TV settings** > **Picture** > **Perfect .Natural Motion**. Select **Off** and press **OK**

Auto subtitle shift

If you play a DVD or Blu-ray Disc on a recent Philips player, the TV can move the subtitles upwards. Subtitles will then be visible whatever Picture format you select. The TV comes with Auto .subtitle shift switched on

To switch off Auto subtitle shift, press  > **Setup** > **TV .settings** > **EasyLink** > **Auto subtitle shift**. Select **Off**

Pixel Plus link

Some other devices, DVD or Blu-ray Disc players, might have their own picture quality processing. To avoid bad picture quality caused by interference with the TV processing, the picture processing of these devices should be disabled. The TV comes with Pixel Plus link switched on and disables the picture quality .processing of recent Philips devices connected to the TV

To switch off Pixel Plus link, press  > **Setup** > **TV settings** > **EasyLink** > **Pixel Plus link**. Select **Off**

Switch on
To switch on Key beep, press **⋮** **OPTIONS**, select **Universal access** and press **OK**. Select **Key beep** and select **On**
If Universal access does not appear in the Options menu, switch on Universal access in the Setup. Read **Help > Setup > Universal access > Switch on**

Universal access 4.6

Switch on

With Universal access switched on, the TV is set for use for hearing and visually impaired people

Switch on

If you did not switch on Universal access during the installation, you can still switch it on in Setup

To switch on Universal access, press **⬆** > **Setup > TV settings > Preferences > Universal access**. Select **On** and press **OK**


With Universal access switched on in Setup, the Universal access option is added in the Options menu. With Universal menu in the Options menu, you can set specific settings for hearing and visually impaired people

Hearing impaired

Some digital TV channels broadcast special audio and subtitles adapted for hearing impaired people. With Hearing impaired switched on, the TV automatically switches to the adapted audio and subtitles, if available

Switch on

To switch on Hearing impaired, press **⋮** **OPTIONS**, select **Universal access** and press **OK**. Select **Hearing impaired**, select **On** and press **OK**

To check whether a hearing impaired audio language is available, press **⋮** **OPTIONS**, select **Audio language** and look for an audio language marked with a 

If Universal access does not appear in the Options menu, switch on Universal access in the Setup. Read **Help > Setup > Universal access > Switch on**

Visually impaired


Some digital TV channels broadcast special audio called Audio Description for visually impaired people. The audio consists of a narrator describing what is happening in the programme during the pauses in the normal audio

Switch on

To switch this visually impaired audio, press **⋮** **OPTIONS**, select **Universal access** and press **OK**. Select **Visually impaired** and select **On** or, if available, select the speakers the adapted audio should be played from. If available, the TV will play the visually impaired audio

Volume - Visually impaired



If available, you can set the volume of the extra commentary

To check whether a visually impaired audio language is available, press **⋮** **OPTIONS**, select **Audio language** and look for an audio language marked with a 

If Universal access does not appear in the Options menu, switch on Universal access in the Setup. Read **Help > Setup > Universal access > Switch on**

Key beep

Key beep gives an audio feedback each time you press a key on the remote control. The volume of the beep is fixed


... Do not
 press  twice •
 use the  switch on the TV •
 The TV switches itself off (for 10 seconds) and then back on
 again. Please wait

The TV software has been updated. You can use the TV again

To prevent an accidental update of the TV software, delete the
 .autorun.upg file from the USB memory device

Software 4.7

Current version


To view the current TV software version, press  > **Setup** >
Software settings and press **OK**. Select **Current software info**
 and read **Version**

Update from Internet

If the TV is connected to the Internet, you may receive a
 message from Philips to update the TV software. You need a
 high-speed (broadband) Internet connection

If you receive this message, we recommend you carry out the
 update. Select **Update**. Follow the instructions on screen

You can also look for new updates yourself. To look for an
 update, press  > **Setup** > **Update software** and press **OK**.
 Follow the instructions on screen


When the update is complete, the TV switches off and back on
 again automatically. Wait for the TV to switch itself back on. Do
 not use the Power switch  on the TV

Update with USB

It might be necessary to update the TV software. You need a PC
 with an high-speed Internet connection and a USB memory
 device to upload the software on the TV. Use a USB memory
 device with 256MB free space. Make sure that write protection is
 switched off

Start 1
 Identify 2
 Download 3
 Update TV 4

Start the update on TV 1

To start the software update, press  > **Setup** > **Update**
software. Select **USB**

Identify the TV 2

Insert the USB memory into the side of the TV, select **Start** and
 press **OK**. An identification file is written on the USB memory
 device

Download the TV software 3


Insert the USB memory into your PC. On the USB memory
 device, locate the file **update.htm** and double click it. Click on
Send ID. If new software is available, download the .zip file. After
 the download, unzip the file and copy the file **autorun.upg** onto
 the USB memory device. Do not place this file in a folder

Update the TV software 4

Insert the USB memory into the TV again. The update starts
 automatically. The TV switches itself off for 10 seconds and then
 back on again. Please wait

... Do not
 use the remote control •
 remove the USB memory device from the TV •

If a power cut occurs during the update, never remove the USB
 memory device from the TV. When the power returns, the
 update will continue

At the end of the update, the message **Operation successful**
 appears on screen. Remove the USB memory device and press
 on the remote control

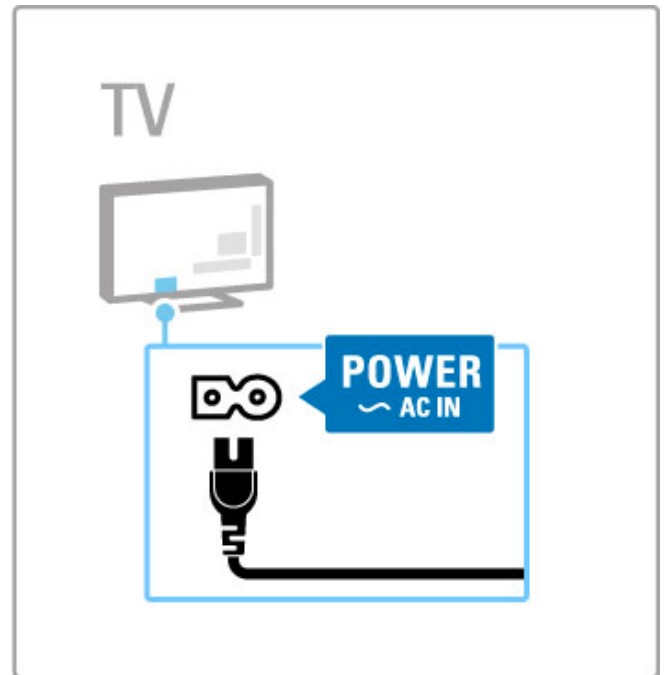
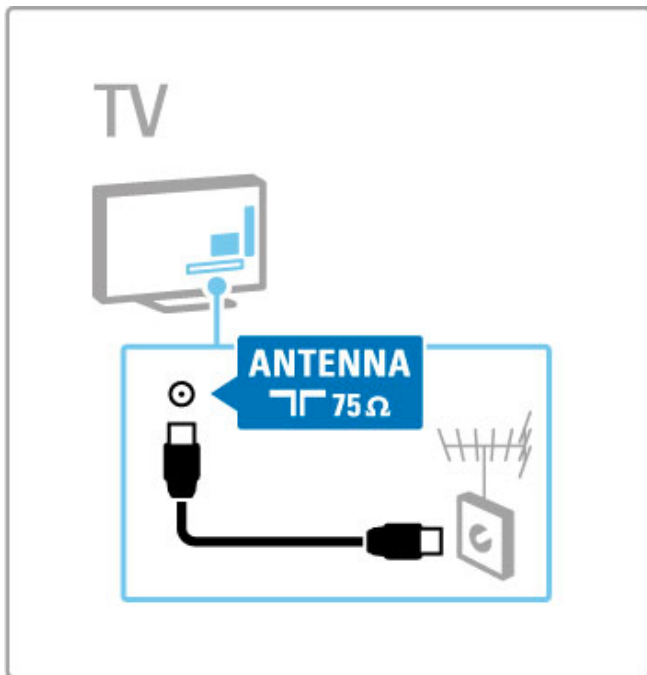
Connections 5

First connections 5.1

Power cable

.Insert the power cable into the power socket of the TV


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



Although this TV has a very low standby power consumption,
switch off the TV with the power switch to save energy if you
.do not use the TV for a long period of time
Read more about the power switch in **Help > Getting started >**
Keys on the TV > Power switch

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

Antenna cable

Locate the antenna connection at the back of the TV. Insert the
.antenna cable securely into the **Antenna**  socket

Cable quality

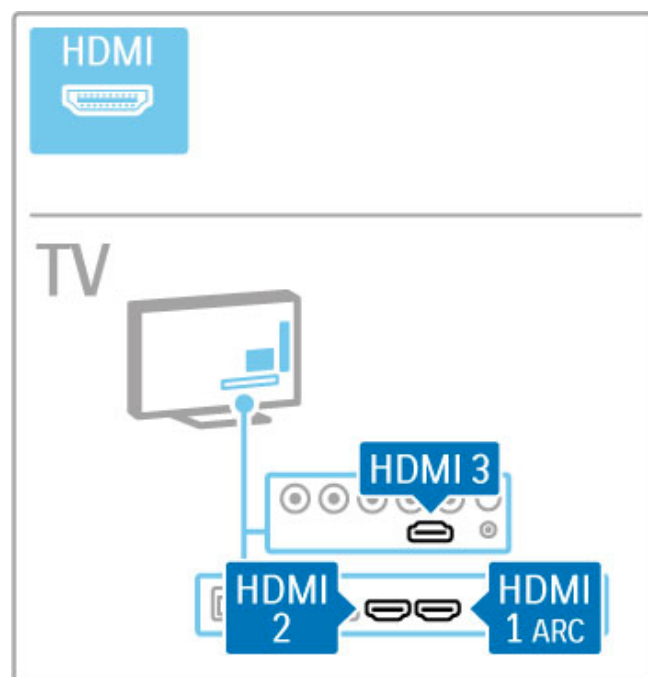
Before you connect devices to the TV, check which connectors are available on the device. Connect the device to the TV with the highest quality connection available. Good quality cables ensure a good transfer of picture and sound. Read the other chapters of **Cables and connections**.

The connections diagrams shown in **Help > Connections > Connect devices** are recommendations. Other solutions are possible.

Visit the Philips support webpages - www.philips.com/support - and start the **Connectivity guide** for TV. The guide can help you to connect the devices you have at home.

HDMI

An HDMI connection has the best picture and sound quality. One HDMI cable combines video and audio signals. Use an HDMI cable for High Definition (HD) TV signals. An HDMI cable transfers picture and sound signals in only one direction (except for the HDMI ARC). Do not use an HDMI cable longer than 5 m.



EasyLink HDMI-CEC

If your devices are connected with HDMI and have EasyLink, you can operate them with the TV remote control. Read more about EasyLink in **Help > Basics > Remote control > Operate devices**.

HDMI ARC connection

Connect a Home Theatre System to the HDMI ARC connection. With HDMI ARC, the extra audio cable from the TV to the HTS is not necessary. With one HDMI cable connected to HDMI ARC (Audio Return Channel) both cables are combined.

Switch off HDMI ARC

In case you would like to switch off the audio return signal on the HDMI ARC connection, press **Home** > **Setup** > **TV settings** > **EasyLink** > **HDMI 1 ARC**, select **Off** and press **OK**.

DVI to HDMI

Use a DVI to HDMI adapter if your device only has a DVI connection. Use one of the HDMI connections and add an Audio L/R cable (mini-jack 3.5 mm) to **Audio In DVI/VGA** for sound, on the back of the TV.

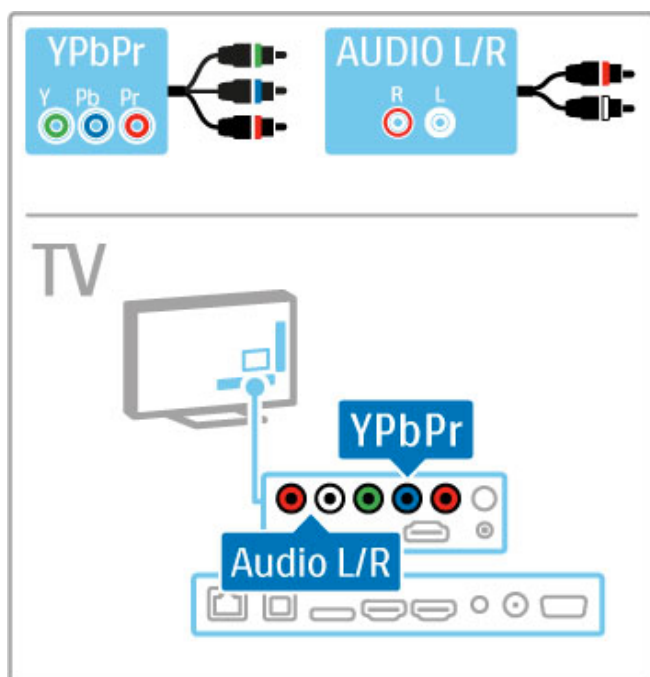
Copy protection

DVI and HDMI cables support HDCP (High-bandwidth Digital Contents Protection). HDCP is a copy protection signal that prevents copying content from a DVD disc or Blu-ray Disc. Also, (referred to as DRM (Digital Rights Management).

Y Pb Pr

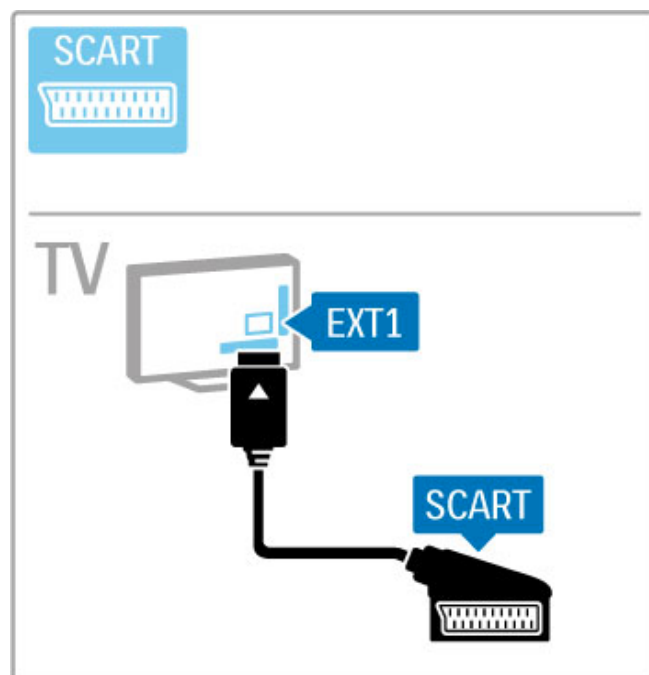
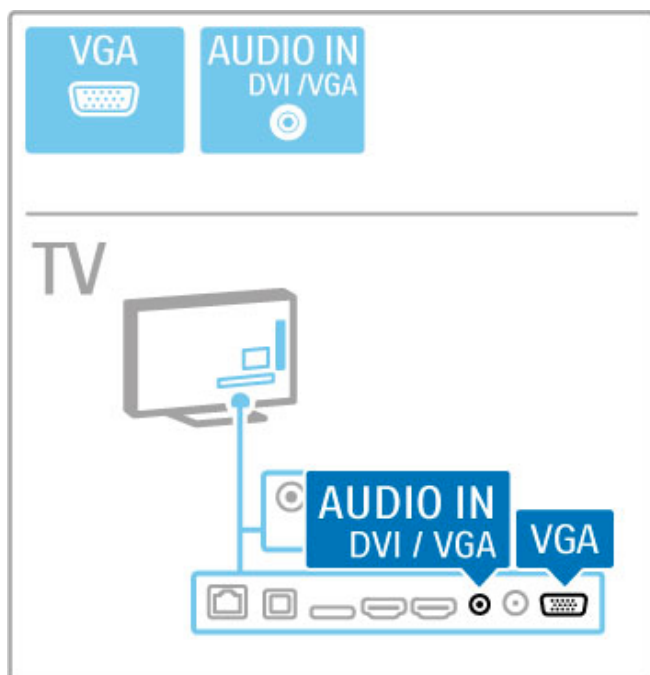
Use the Component Video YPbPr connection together with an Audio Left and Right connection for sound.

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



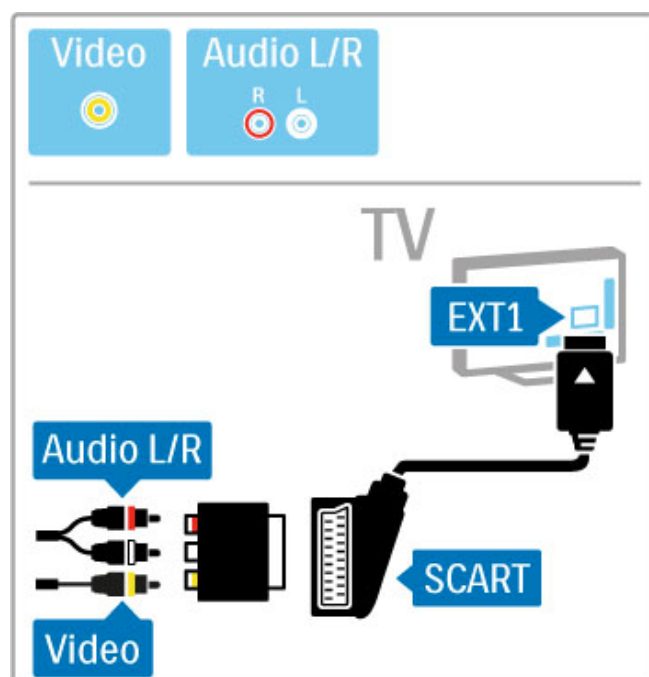
SCART

A SCART cable combines video and audio signals. SCART connectors can handle RGB video signals but cannot handle High Definition (HD) TV signals. Use the included Scart adapter to connect a Scart cable.



Video

If you have a device with only a Video (CVBS) connection, you need to use a **Video to SCART adapter** (not supplied). Connect the Video to SCart adapter to the included Scart adapter of the .TV. You can add the Audio L/R connections

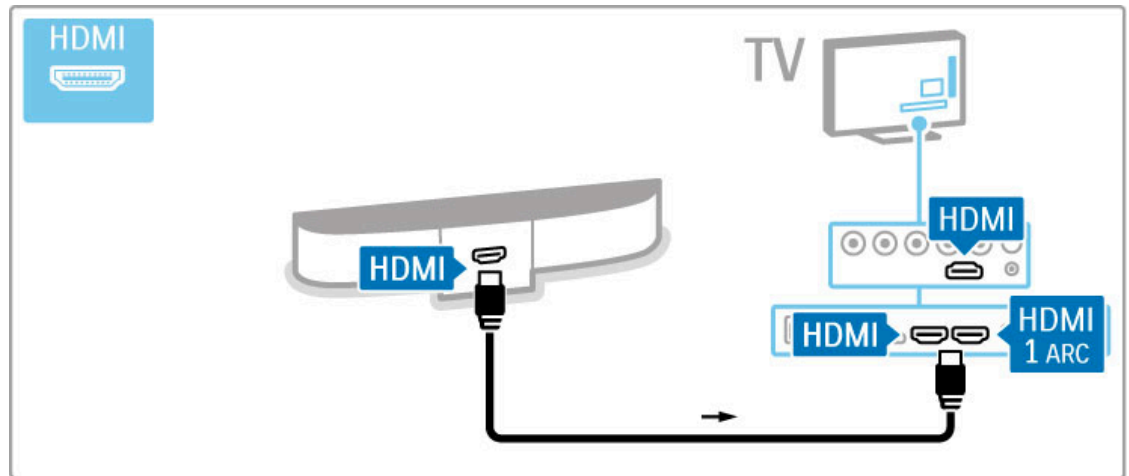


VGA

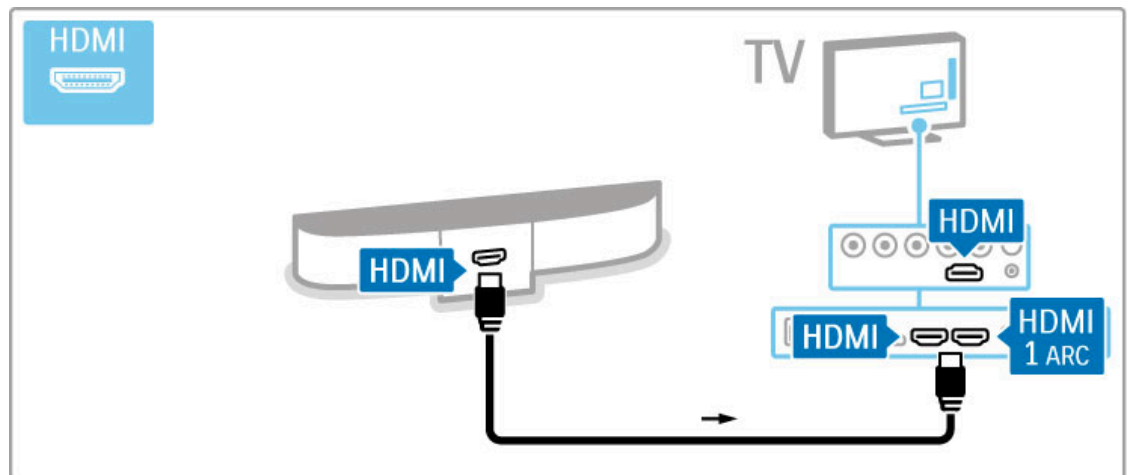
Use a VGA cable (DE15 connector) to connect a computer to the TV. With this connection you can use the TV as a computer monitor. You can add an Audio L/R cable for sound (mini-jack .(3.5 mm

To connect a computer with the VGA connection, read **Help > .Connections > Connect more devices > TV as PC monitor**

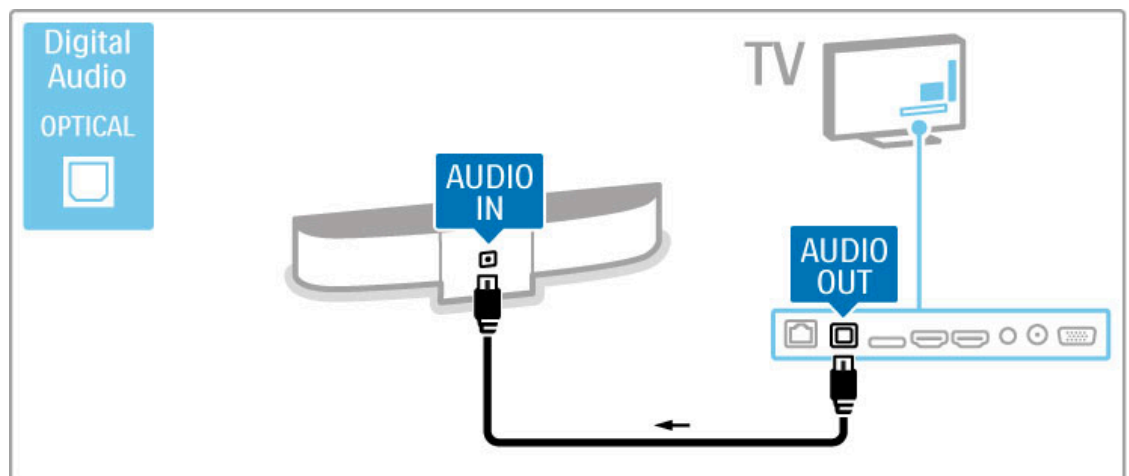
.Use an HDMI cable to connect the device to the TV



If you use the HDMI-ARC connections on both TV and device,
no other cable is needed. If not, read on

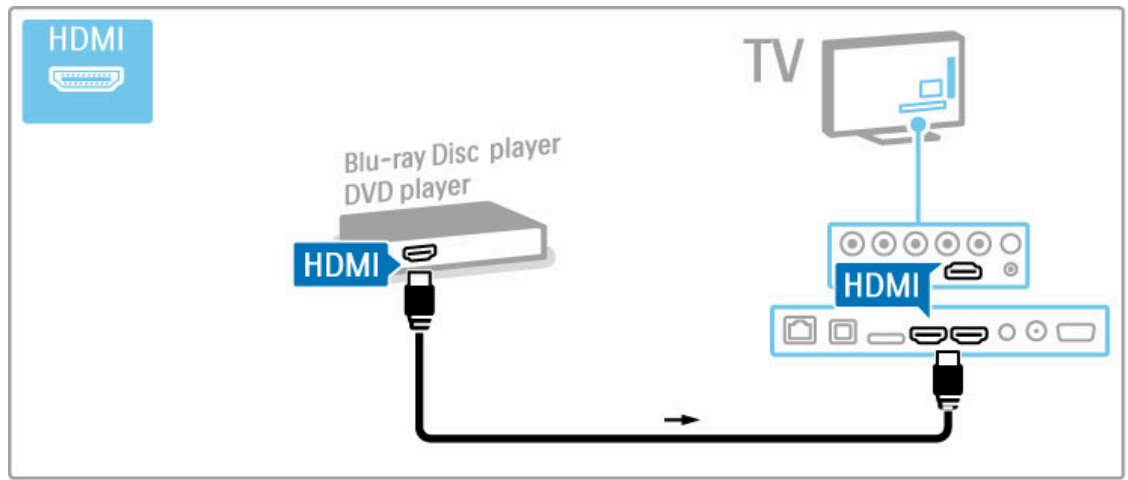


If you do not use the HDMI-ARC connection, add a digital audio
(cable (optical



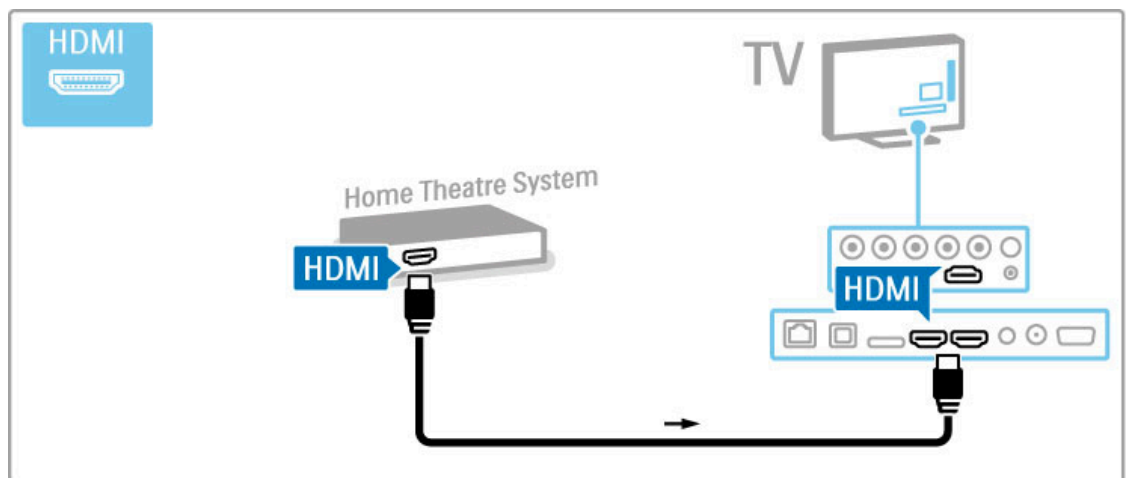
Blu-ray Disc / DVD player

.Use an HDMI cable to connect the device to the TV

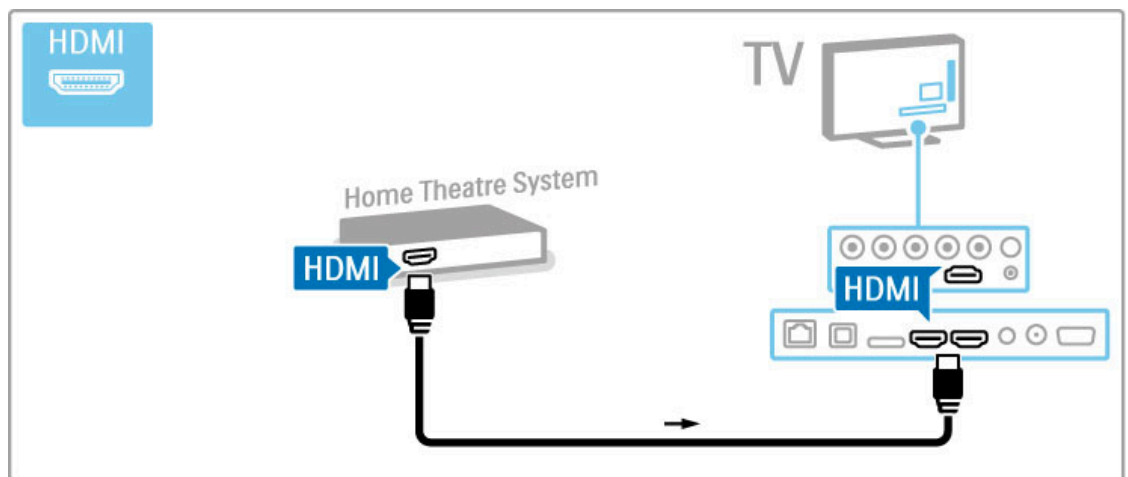


Home Theatre System with disc player

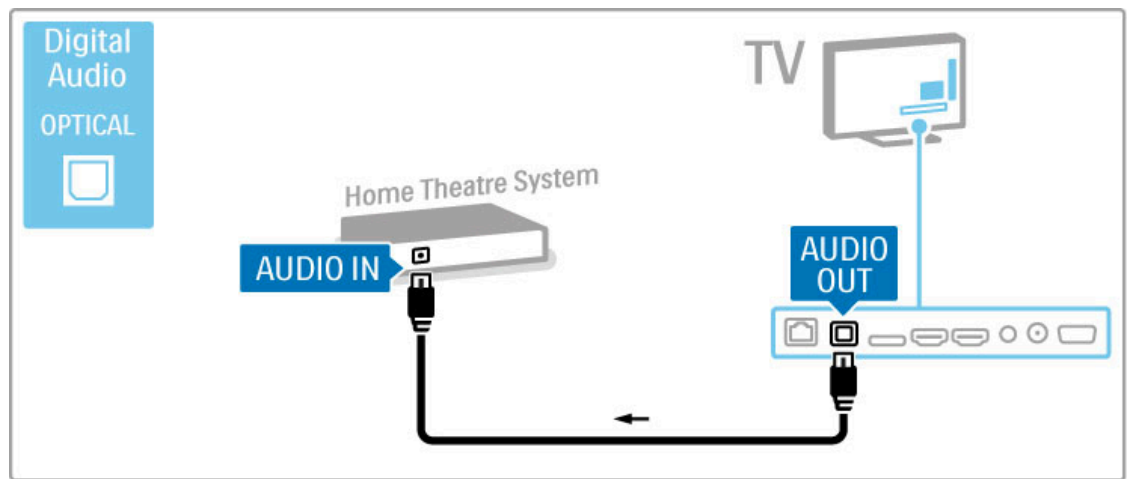
.Use an HDMI cable to connect the device to the TV



If you use the HDMI-ARC connections on both TV and device,
no other cable is needed. If not, read on



If you do not use the HDMI-ARC connection, add a digital audio
(cable (optical



(Audio to Video synchronisation (sync

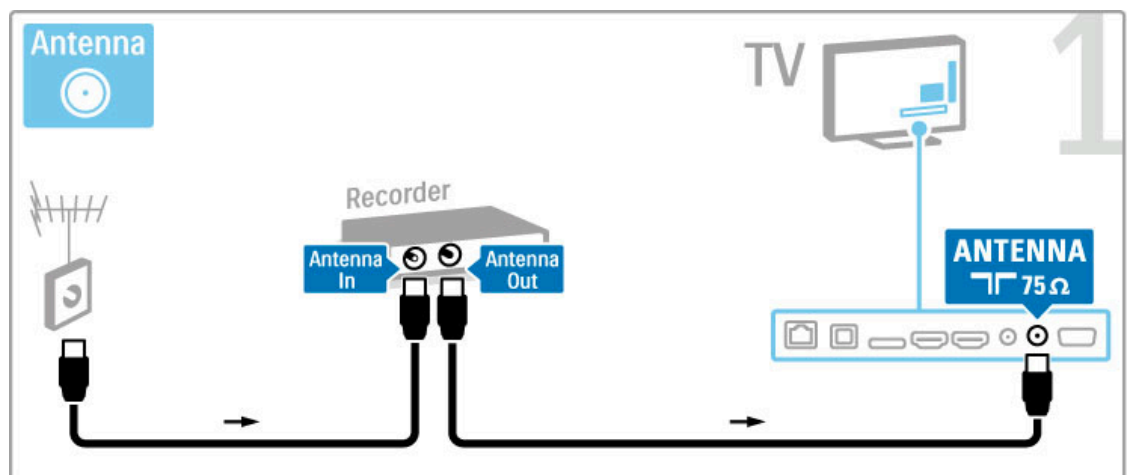
If the sound does not match with the video on screen, you can set a delay on most DVD Home Theatre Systems to match the sound and video

Read more about Audio to Video sync in **Help > Setup > Devices > Audio to Video sync**

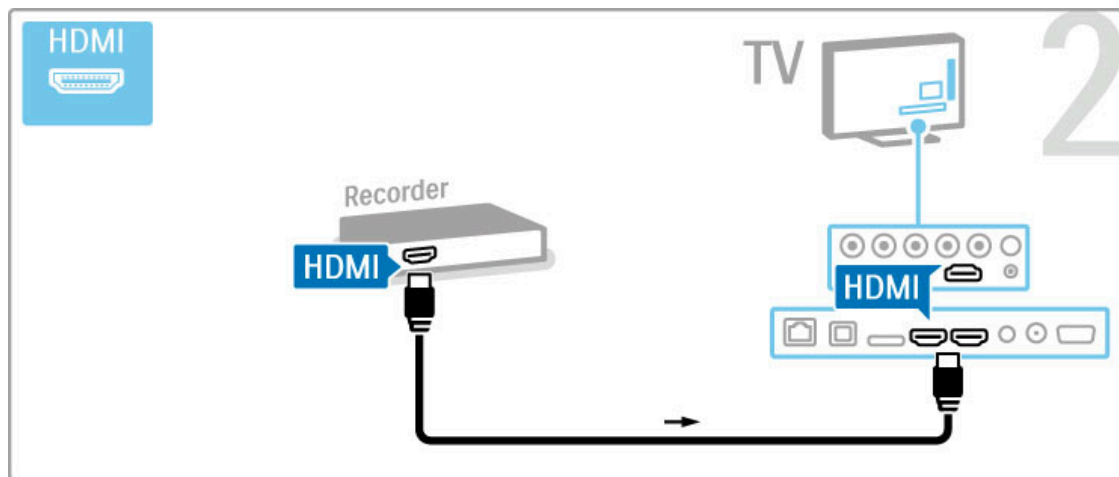
Do not connect the audio signal from a DVD player or other device directly to the Home Theatre System. Always route the sound through the TV first

Recorder

Use 2 antenna cables to connect the antenna to the device and the TV



.Add an HDMI cable to connect the device to the TV

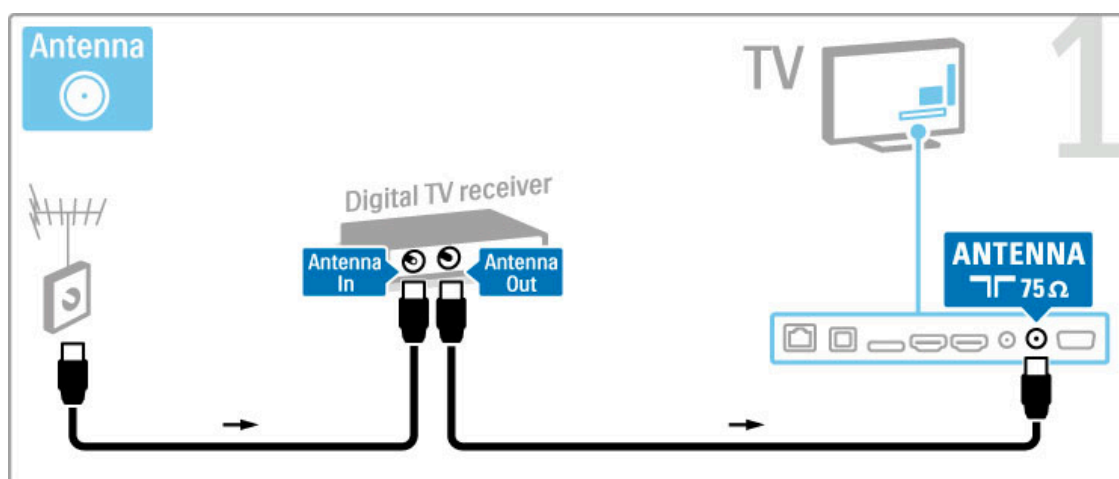


Digital receiver / Satellite receiver

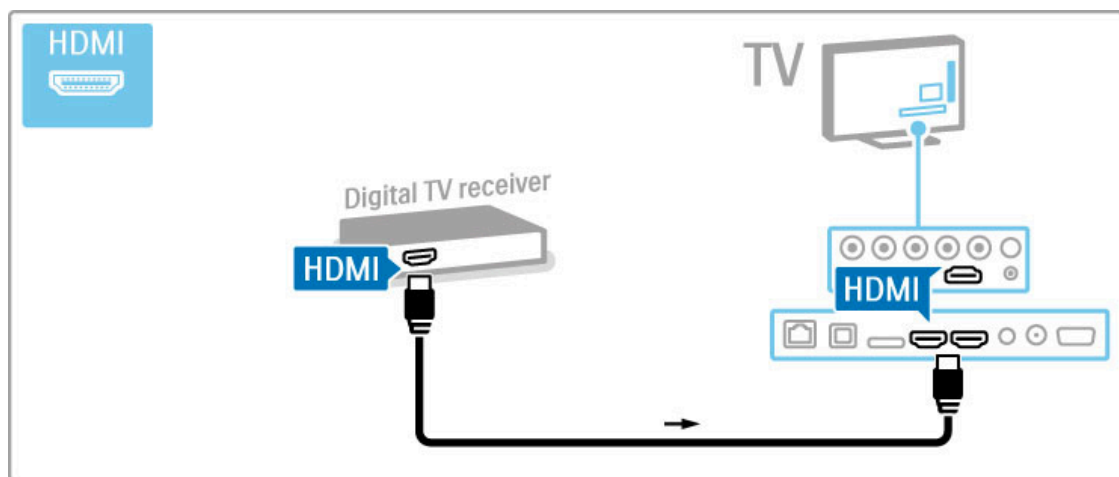
If you use a digital receiver to watch TV (a set top box - STB) and you do not use the remote control of the TV, then switch off the automatic switch off. This will prevent the TV from switching off automatically after a 4 hour period without a key press on the remote control of the TV.

To switch off the automatic switch off, press the **green** key while you are watching TV channels and select **Auto switch off** and select **Off**.

Use 2 antenna cables to connect the antenna to the device and the TV.



.Add an HDMI cable to connect the device to the TV

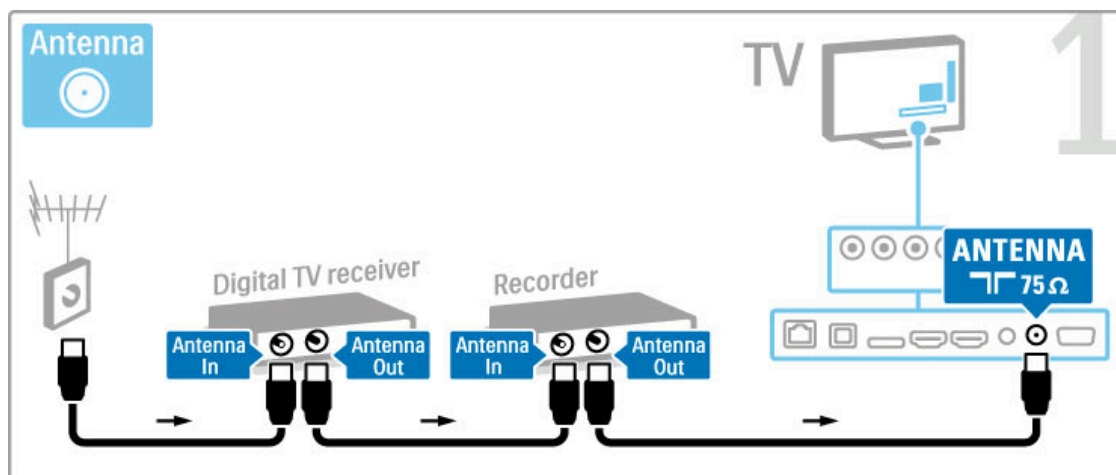


Dig. receiver + Disc Recorder

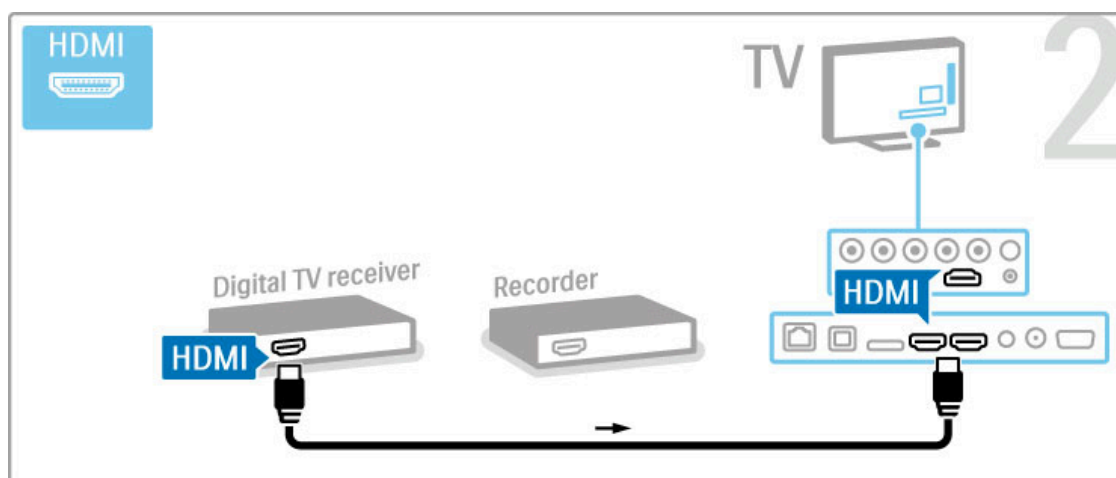
If you use a digital receiver to watch TV (a set top box - STB) and you do not use the remote control of the TV, then switch off the automatic switch off. This will prevent the TV from switching off automatically after a 4 hour period without a key .press on the remote control of the TV

To switch off the automatic switch off, press the **green** key while you are watching TV channels and select **Auto switch off** and select **Off**

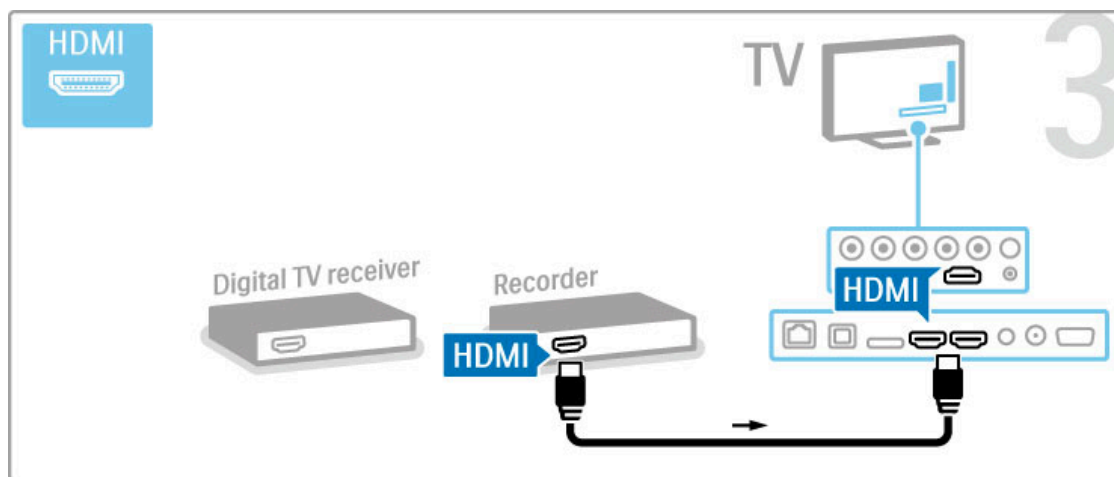
.First, use 3 antenna cables to connect the devices to the TV



Then use an HDMI cable to connect the digital receiver to the .TV



Finally, use an HDMI cable to connect the Disc Recorder to the .TV

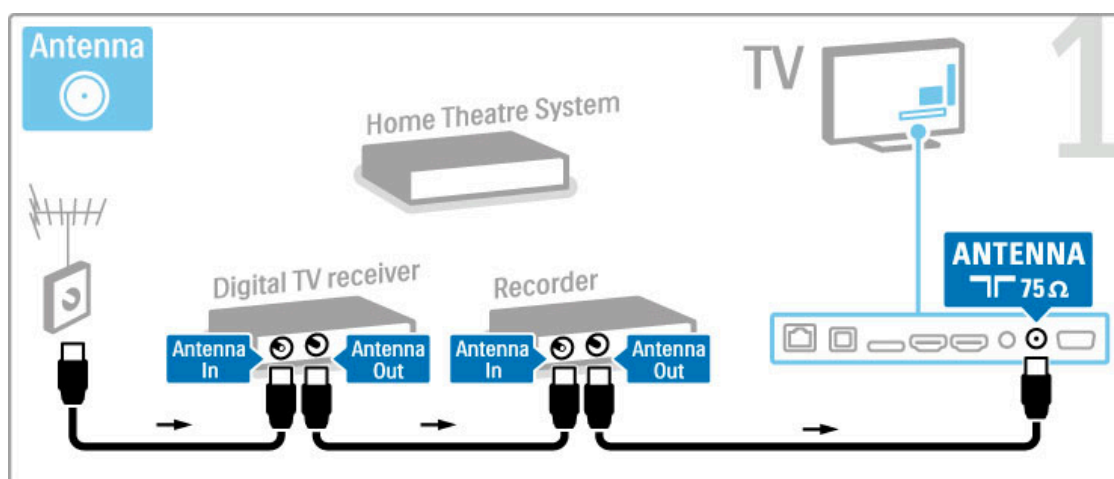


Dig. receiver + Disc-R + Home Theatre

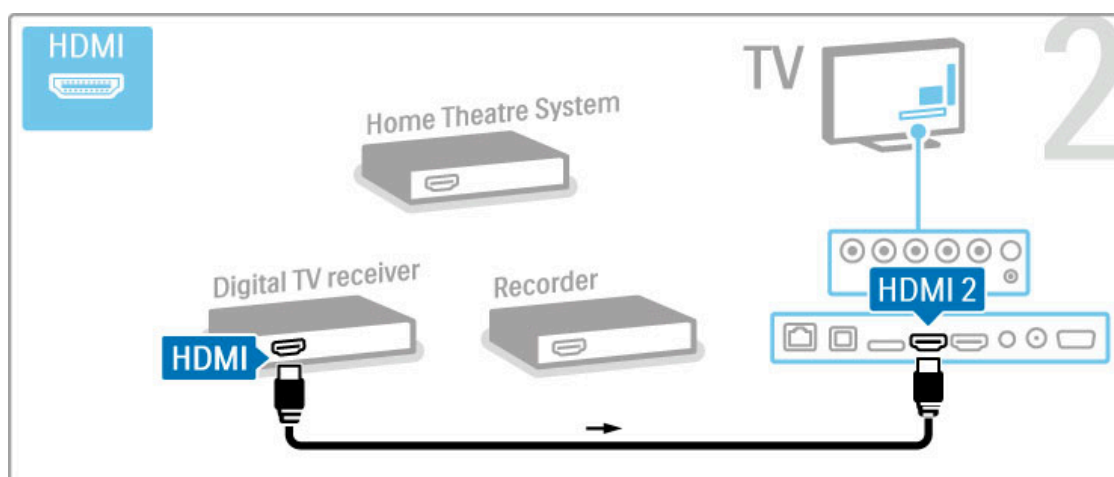
If you use a digital receiver to watch TV (a set top box - STB) and you do not use the remote control of the TV, then switch off the automatic switch off. This will prevent the TV from switching off automatically after a 4 hour period without a key press on the remote control of the TV.

To switch off the automatic switch off, press the **green** key while you are watching TV channels and select **Auto switch off** and select **Off**.

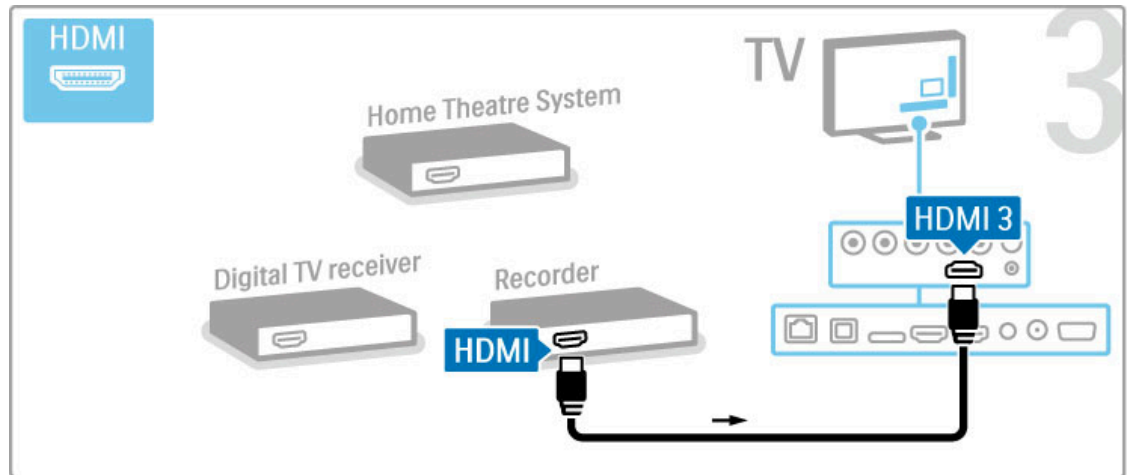
.First, use 3 antenna cables to connect the devices to the TV



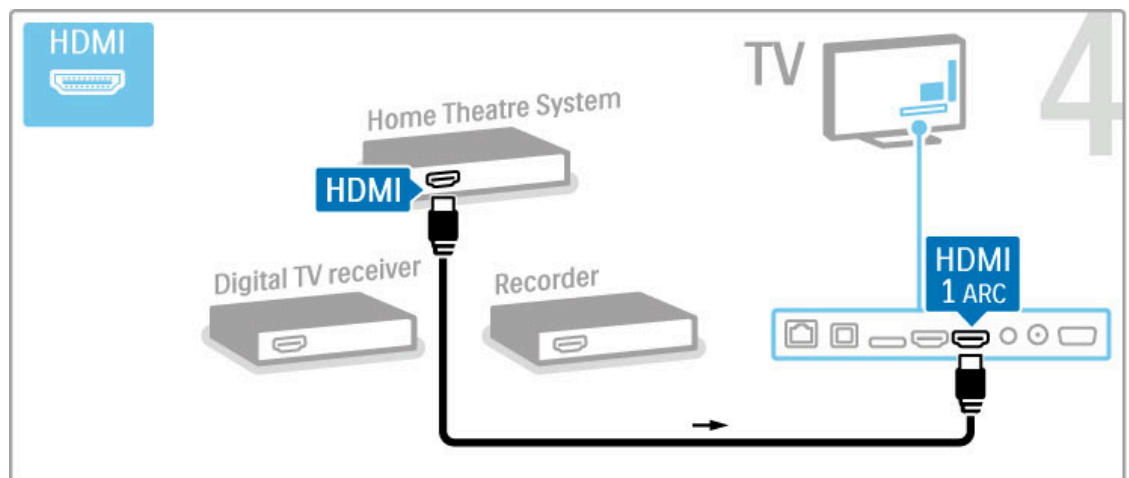
Then use an HDMI cable to connect the digital receiver to the TV.



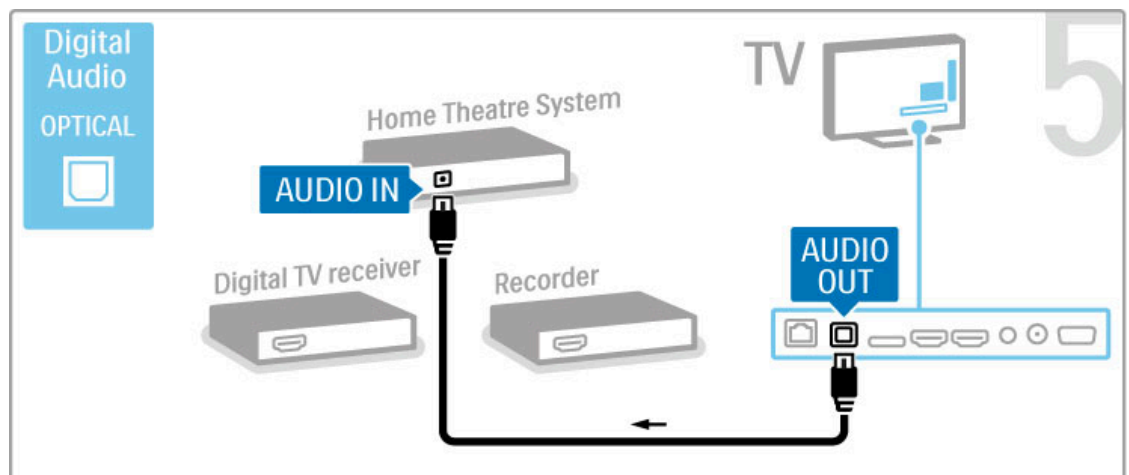
Then use an HDMI cable to connect the Disc Recorder to the TV.



Then use an HDMI cable to connect the Home Theatre System to the TV.



If you do not use the HDMI-ARC connection on the TV and the device, add a digital audio cable (optical).

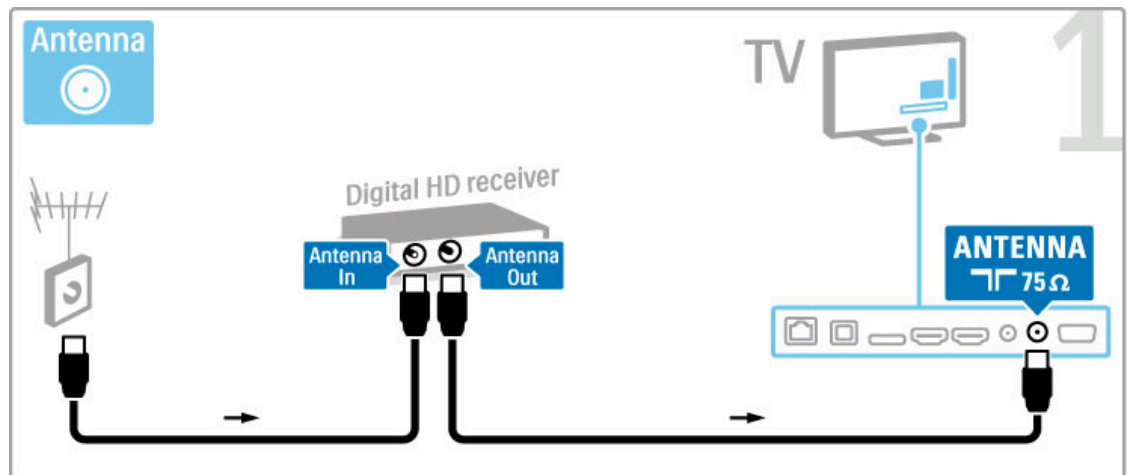


Digital HD receiver

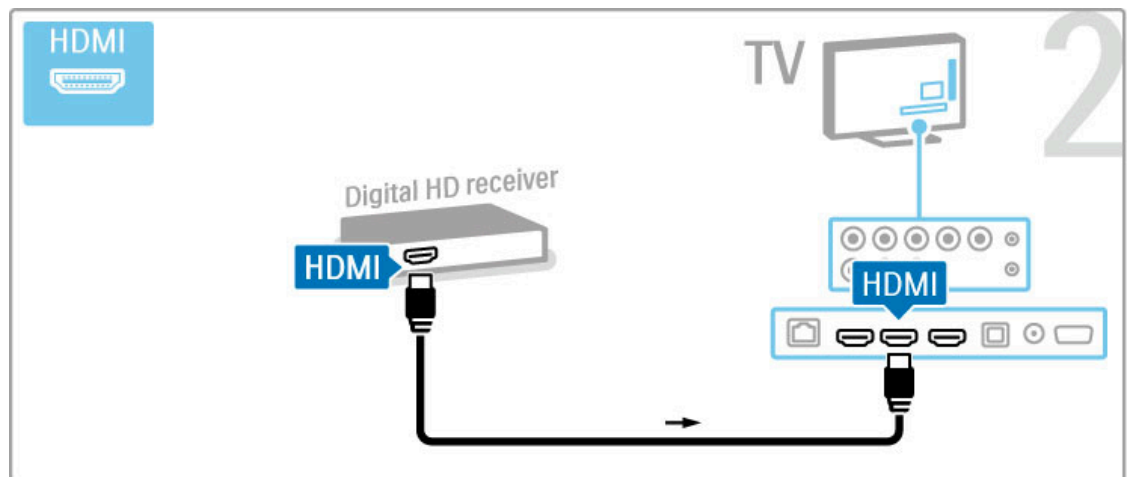
If you use a digital receiver to watch TV (a set top box - STB) and you do not use the remote control of the TV, then switch off the automatic switch off. This will prevent the TV from switching off automatically after a 4 hour period without a key press on the remote control of the TV.

To switch off the automatic switch off, press the **green** key while you are watching TV channels and select **Auto switch off** and select **Off**.

.First, use 2 antenna cables to connect the device to the TV



.Use an HDMI cable to connect the device to the TV

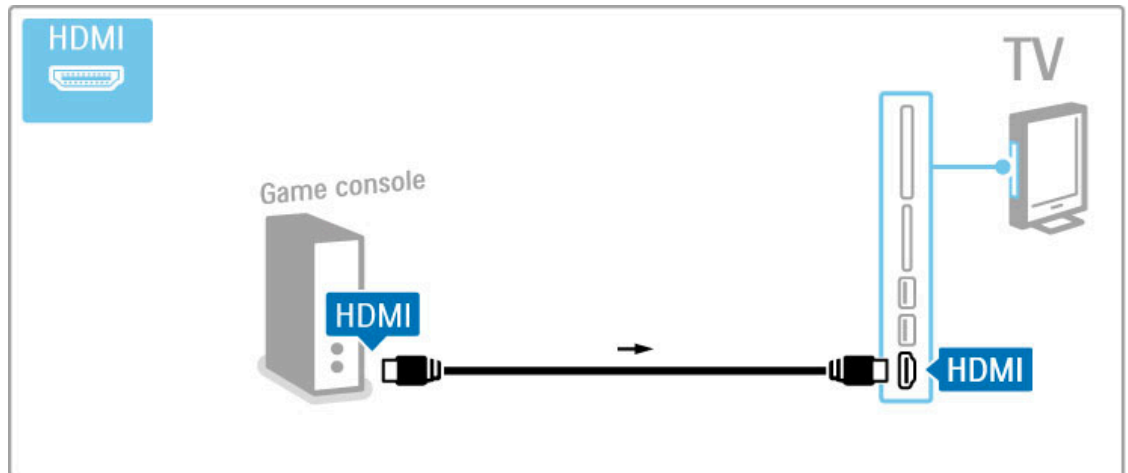


Game

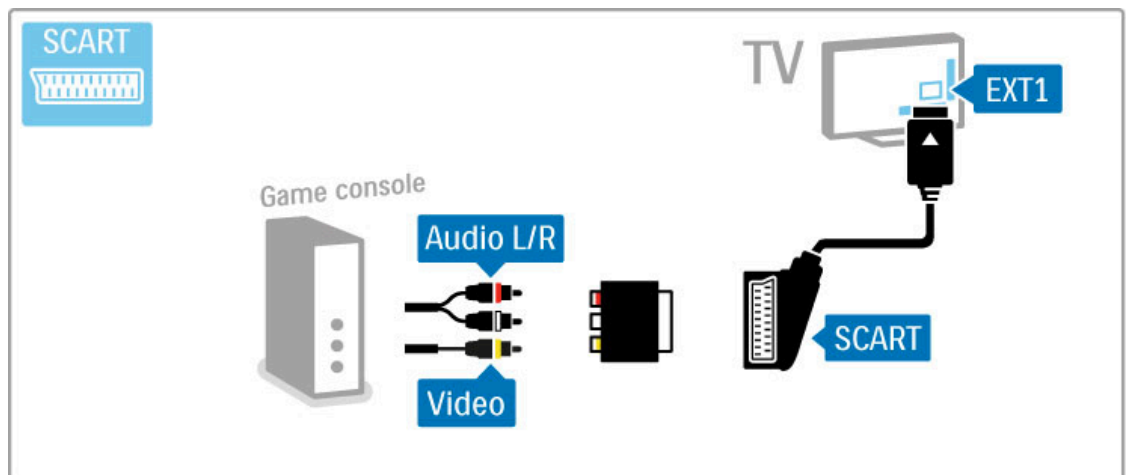
Connect a game console to the side or back of the TV. You can use an HDMI, YPbPr or SCART connection. If your game console only has Video (CVBS) and Audio L/R output, use a **Video Audio L/R to SCART** adapter to connect to the SCART connection

.Read more about Games in **Help > Smart TV > Games**

.Use an HDMI cable to connect the device to the side of the TV



.Or use a SCART adapter to connect the device to the TV



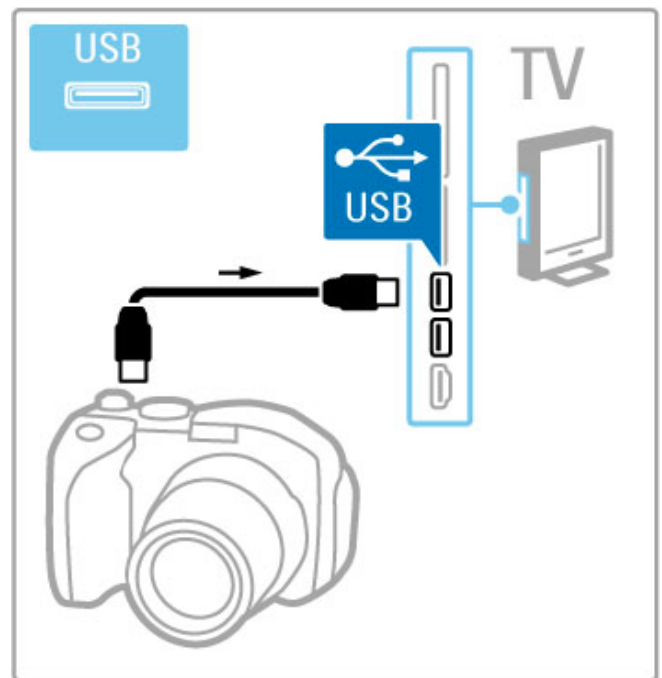
HD Game

Use an HDMI cable or YPbPr and Audio L/R cables to connect a .High Definition game console to the TV

To connect a HD Game console, read **Help > Connections > .Connect more devices > Game**

Photo camera

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



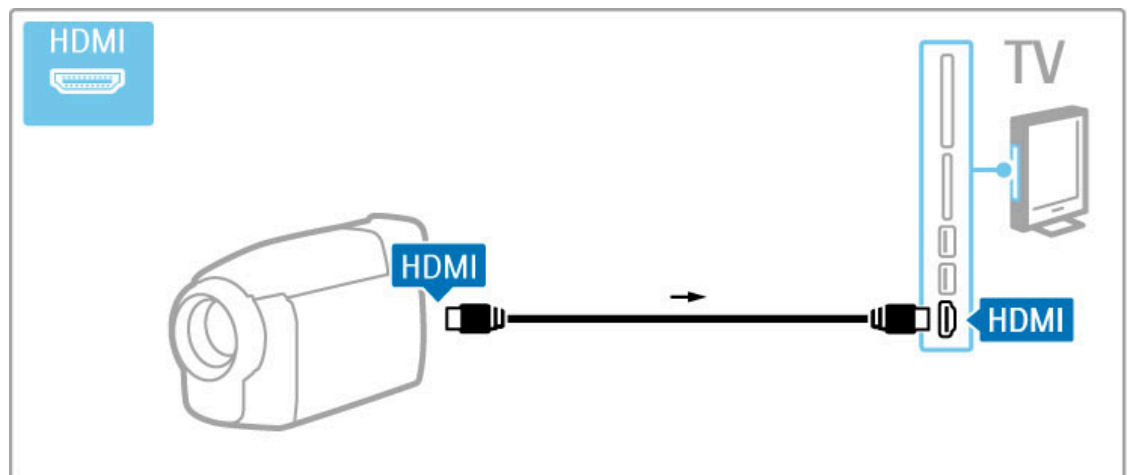
If the list with the content of the camera does not appear automatically, your camera might need to be set to transfer its content with PTP (Picture Transfer Protocol). Read the user manual of the digital photo camera.

Camcorder

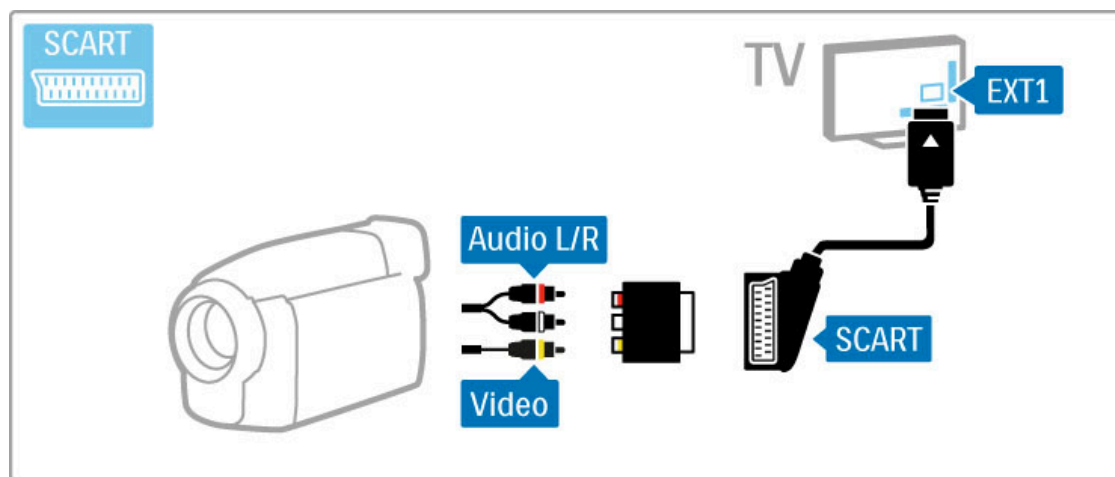
Connect a camcorder to the side or back of the TV. You can use an HDMI, YPbPr or SCART connection. If your camcorder only has Video (CVBS) and Audio L/R output, use a **Video Audio L/R to SCART** adapter to connect to the SCART connection.

See the following pages to connect your camcorder.

Use an HDMI cable to connect the camcorder to the side of the TV.



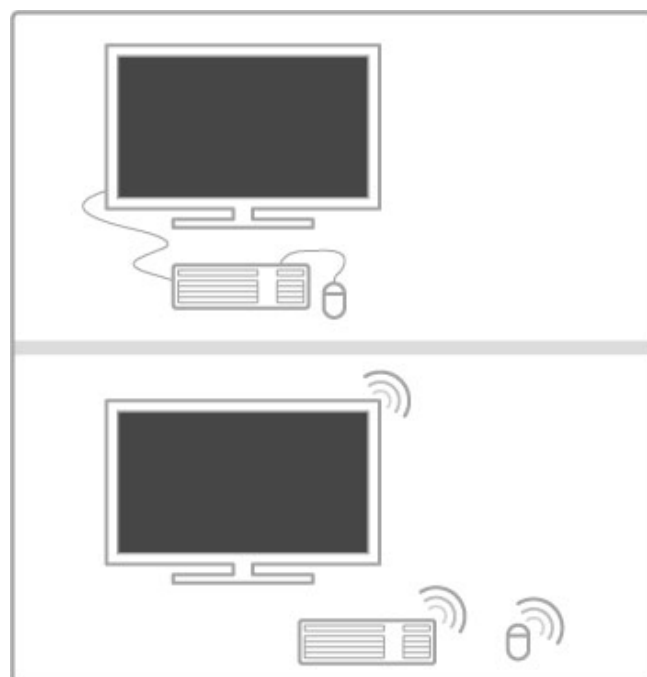
Or use a SCART adapter to connect the device to the TV.



Keyboard and mouse

USB keyboard

You can connect a USB keyboard to enter text on your TV.
With a keyboard connected, you can type in a new channel name or type in what you are looking for in the YouTube app in Net TV.



Install

Switch the TV on and connect the USB keyboard to one of the USB connections on the side of the TV. When the TV detects the keyboard, you can select your keyboard lay-out and test your selection.

If you select a Cyrillic or Greek keyboard lay-out first, you can select a secondary Latin keyboard lay-out.
To change the keyboard lay-out setting, press **⬆** > **Setup** > **TV settings** > **Preferences** > **USB mouse and keyboard** > **Keyboard settings** and press **OK**.

TV keys on your keyboard

. . . For channel renaming
Enter **↵** = OK -
Backspace **⬅** = delete character before cursor -
Navigation keys = navigate within a text field -
To switch between keyboard lay-outs, if a secondary lay-out is set, press the **Alt** + **Shift** keys simultaneously

... For use with Net TV
Tab and **Shift Tab** = Next and Previous -
Home = scroll to the top of the page -
End = scroll to the bottom of the page -
Page Up = jump one page up -
Page Down = jump one page down -
zoom in one step = + -
zoom out one step = - -
fit to width = * -

USB mouse

You can connect a USB mouse to navigate pages on the Internet.
On an Internet page, you can select and click on links more easily. The USB mouse cannot navigate in Net TV app pages nor .navigate in the TV menus



Install

Switch the TV on and connect the USB mouse to one of the USB connections on the side of the TV. You can also connect .the USB mouse to a connected USB keyboard

Mouse clicks

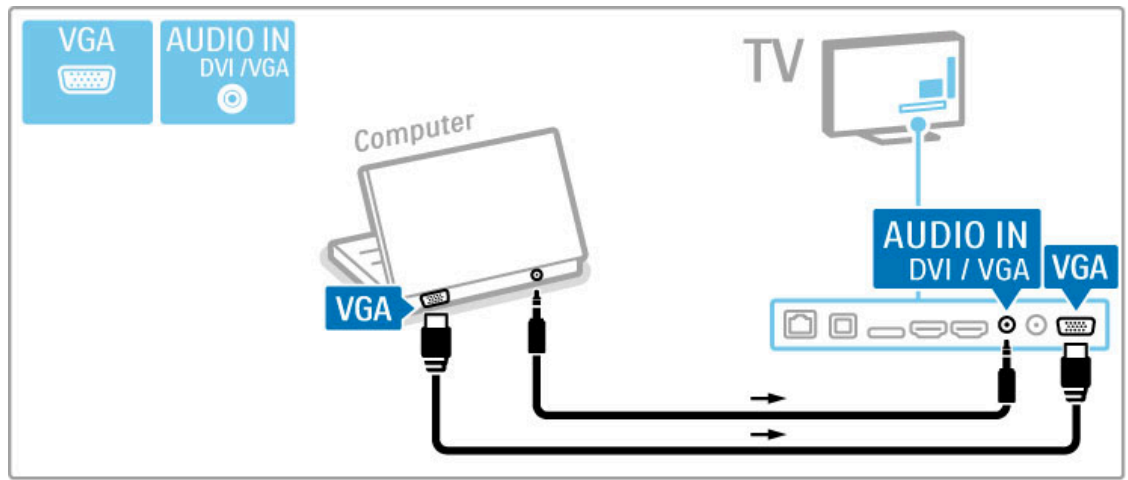
Left click = OK -
Right click = Back ↶ -
.You can use the scroll wheel to scroll pages up and down

TV as PC monitor

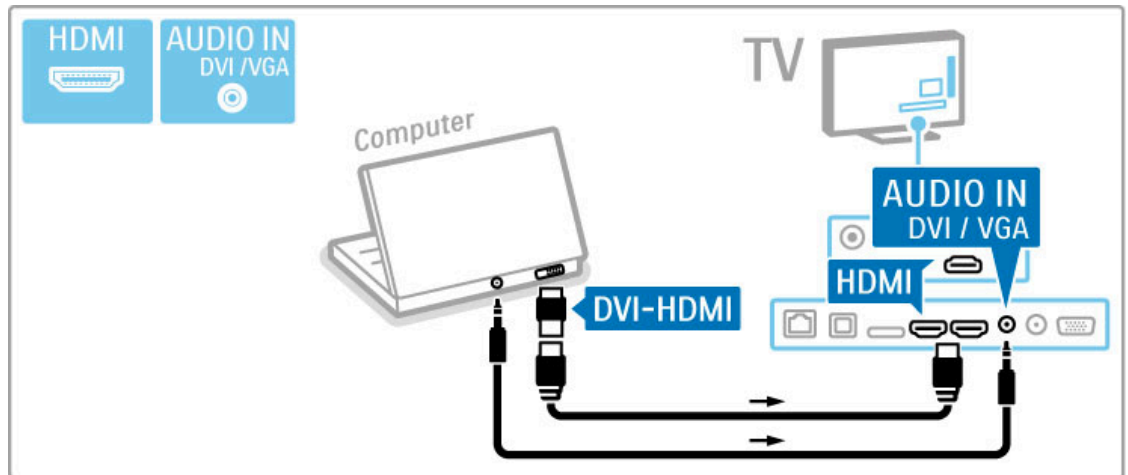
You can connect the TV to your home network wireless. With Wi-Fi MediaConnect, you can use the TV as a PC monitor. Read **.Help > Setup > Network > Wi-Fi MediaConnect**

Read on to connect a computer to the TV as a PC monitor .wired. You can use a VGA cable or a DVI to HDMI adapter

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



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 back of the TV



Ideal TV setting

Set the TV picture format to Unscaled for the sharpest picture quality. While watching TV, press **ADJUST**, select **Picture format** and select **Unscaled**

For a list of supported resolutions see **Help > Specifications > Display resolutions**

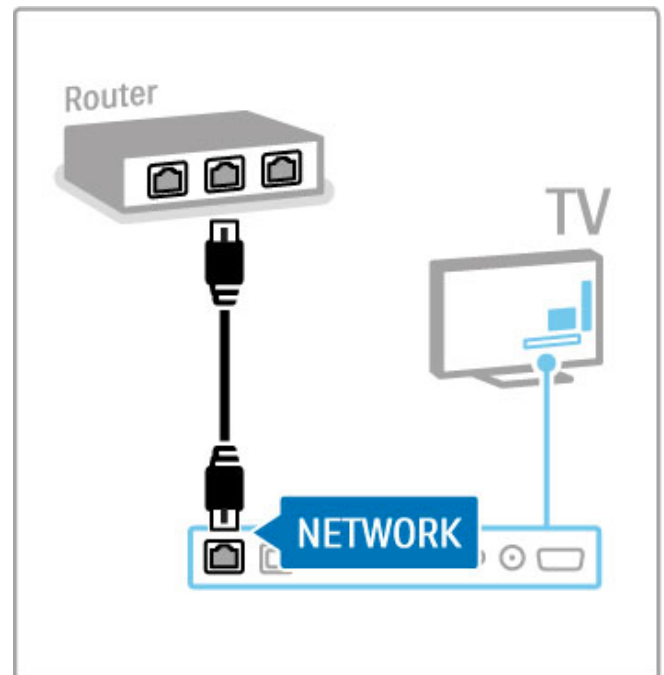
Wireless

To set up the wireless network connection, read **Help > Setup > .Network**

Wired

To set up the wired network connection, read **Help > Setup > Network**

Connect the router to the TV with a network cable. To fulfil .EMC regulations, use a shielded FTP Cat. 5E Ethernet cable



Memory size

To store videos downloaded from a Video store on Net TV, you need to insert an SD memory card into the TV SD card slot. Once formatted, leave the card permanently in the slot

SD memory card size

Use a SD HC (High Capacity) memory card with at least 4GB of storage capacity

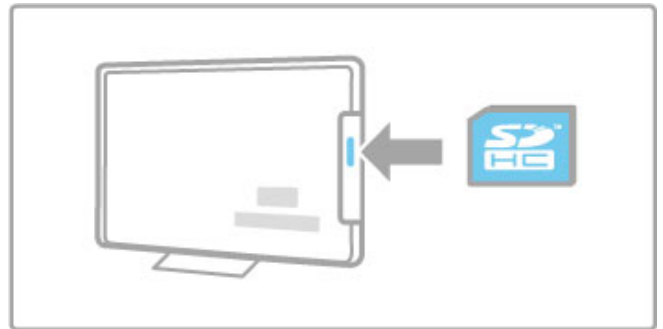
For high-definition (HD) video, use an SD card with at least 8GB of storage capacity. Use a speed class 2 card or more

Read more about renting videos in [Help > Smart TV > Net TV > Video stores](#)

Insert the card

Make sure to unlock the SD memory card before you insert it

To format the SD card, switch on the TV and insert the SD card into the SD card slot. The TV will automatically start formatting. Leave the SD card permanently in the slot



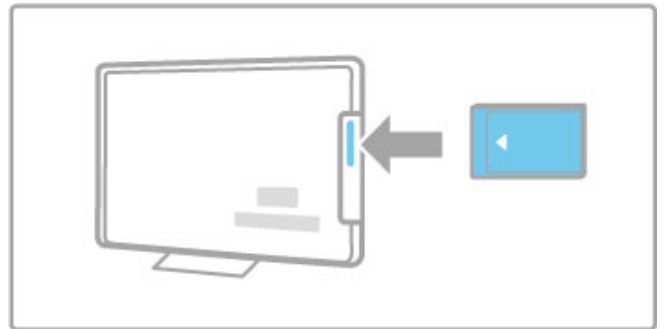
CAM

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 to see 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 back 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.



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 **Home** > **Setup** > **Channel settings** > **Common Interface**. Select the CAM provider and press **OK**.

+CI

This TV can handle the CI+ conditional access.
CI+ allows service providers to offer premium HD digital programmes like movies and sports with a high level of copy protection.

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

Troubleshooting 6

Contact information 6.1

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

Warning

If your TV breaks down, **NEVER** try to repair the TV yourself.

Consumer Care

If the TV problem is not solved you can call the Philips Consumer Care hotline in your country. Look up the TV model and serial number before you call. Find the telephone number on the 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.

TV and remote control 6.2

The TV does not switch on

- Switch the TV off and on again with the switch on the bottom of the TV
- .Check the power cable connection
- .Try using the keys on the TV to switch on

The TV does not switch on from standby

- Check that the batteries of the remote control are not empty or weak. Check their + / - orientation
- .Try using the keys on the TV to switch on

The TV does not respond to the remote control

- Check that the batteries of the remote control are not empty or weak. Check their + / - orientation
- .Clean the remote control and TV sensor lens

- During start-up, which can take up to two minutes with connected devices, 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 flashes

- Switch the TV off and on again with the switch at the bottom of the TV. Check if there is enough space for ventilation. Wait until the TV has cooled down

- If the TV does not restart from standby and the light flashes again, call Consumer Care

?You forgot your code to unlock Child lock

- .Read **Help > Smart TV > Locks and timers > Child lock**

Some TV channels are gone

Check if the correct list is selected in the Channel list. Press **Q** •
FIND to open the Channel list, then press **≡** **OPTIONS** and
.select the list you need with **Select list**

A channel could be hidden in the Channel list. Read more •
.about Channel list in **Help > Basics > Watch TV > Channel list**

No digital channel found during installation

Check 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

No picture

- .Check if the antenna is connected properly
- .Check if the correct device is selected and connected properly
- Check the contrast or brightness setting in **🏠 > Setup > TV • settings > Picture > Contrast** or **Brightness**

The picture is poor

- .Bad weather can influence the picture quality
- .Check 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

- Check 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 **Help > Setup > Channels > Manual installation - Analogue**

The picture has poor colour

- Check the colour settings in **🏠 > Setup > TV settings**. Or •
- .press **≡ OPTIONS** to select a **Smart picture** setting

Picture delay when a game console is connected

- To prevent picture delay, press **≡ OPTIONS**, select **Smart picture > Game**

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

- Check whether the TV is set to the **Home** location. Press **🏠 • > Setup > TV settings > Preferences > Location**

The picture does not fit the screen

- .Press **≡ OPTIONS**, **Picture format** and select **Auto fill**

The picture position on screen is not correct

- To correct a shifted picture, press **≡ OPTIONS** and select **Picture shift**. Use the navigation keys to adjust the picture position. Press **OK** to stop Picture shift

- If distorted screen edges are visible, press **🏠 > Setup > TV • settings > Picture > Screen edges** and use the slider bar to enlarge the picture slightly

There is a picture but no sound

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

The sound is poor

- Try any Smart sound setting, press **≡ OPTIONS**, **Smart sound**
- .Check that the sound is set to Stereo

The sound comes from one speaker only

- Check the Balance setting. Press **🏠 > Setup > TV settings > • Sound > Balance**. Use the slider bar to set the balance

Sound delay

- If there is an audio to video sync mismatch when sound comes from a Home Theatre System, an audio sync delay needs to be set up. Read more about Audio to Video sync in **Help > Setup • > Devices > Audio to Video sync**

HDMI connections

The HDMI-HDCP procedure might take a few seconds before •
the picture from a device appears

If the TV does not recognise the device and there is no •
picture, try switching from one device to another and back again
to restart the HDCP procedure. Or switch the device off and
back on again

If sound interruptions occur persistently, see the user manual of •
the device to check the output settings. If that does not help,
connect an additional audio cable

If a DVI to HDMI adaptor is used, check that an additional •
audio connection is in place to complete the DVI connection

EasyLink HDMI-CEC

Check if the connected device supports the HDMI-CEC •
standard and is properly set up. Read the user manual that comes
with the device

Check if the HDMI cable is properly connected •

Check if EasyLink on the TV and device is switched on •
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

PC display

The refresh rate of a PC connected to the TV with VGA or •
DVI to HDMI adapter should set to 60Hz

Check that the correct resolution mode is selected on your •
PC. See the list in **Help > Specifications > Display resolutions**

Videos, photos and music 6.6

The files on my USB device are 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. See the list in **Help > Specifications > Multimedia**

Files from a USB device do not play back smoothly

- The transfer performance of the USB device limits the transfer rate

The files on my PC are not shown

- To look for files on your home network with Browse PC, your PC media server software should be set up to share the files with the TV. See the list of compatible Media server software in **Help > Specifications > Multimedia**

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 **Help > Setup > Network > Wired installation**

Net TV does not work

- If the connection to the router is OK, check the router connection to the Internet

Browse PC or 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 (broadband) Internet connection for your router

Specifications 7

Software 7.1

Software version

To view the current TV software version, press **⬆** > **Setup** > **Software settings** and press **OK**. Select **Current software info** and read **Version**.

Open source software

This television contains open source software. Philips hereby offers to deliver, upon request, a copy of the complete corresponding source code for the copyrighted open source software packages used in this product for which such offer is requested by the respective licences.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain the source code, please contact open.source@philips.com.

If you prefer not to use email or if you do not receive a confirmation receipt within a week after mailing to this email address, please write in English to

**Open Source Team, Philips Electronics
Intellectual Property and Standards
P.O. Box 220
AE Eindhoven 5600
The Netherlands**

Read the Open Source Licences in **Help** > **Getting started** > **Open Source Licences**.



EU Energy label

The European Energy Label informs you on the energy efficiency class of this product. The greener the energy efficiency class of this product is, the lower the energy it consumes.

On the label, you can find the energy efficiency class, the average power consumption of this product in use and the average energy consumption for 1 year. You can also find the power consumption values for this product on the Philips website for your country at www.philips.com/TV

Energy saving



Please find out for yourself about the local rules on separate collection of batteries because correct disposal will help to prevent negative consequences for the environment and human health.

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 Smart picture setting combines several TV settings that result in saving energy.

Low standby power

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 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.

To check the relative power consumption, press **⬆** > **Setup** and press **▶**. Select **Watch demos** > **Active control** and press **OK**. Select a Smart setting to check the corresponding values.

End of use

Disposal of your old product and batteries

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



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



Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

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

Power

Product specifications are subject to change without notice. For more specification details of this product, see www.philips.com/support

Power

- Mains power : AC 220-240V +/-10%
- Ambient temperature : 5°C to 35°C
- Standby power consumption : < 0.15W
- Power saving features : Light sensor, Eco mode, Picture mute (for radio), Auto switch-off timer, Eco settings menu

The power rating stated on the product typeplate is the power consumption for this product during normal household use (IEC 62087 Ed.2). The maximum power rating, stated between brackets, is used for electrical safety (IEC 60065 Ed. 7.2)

Reception

- (Aerial input : 75 ohm coaxial (IEC75
- Tuner bands : Hyperband, S-Channel, UHF, VHF
- DVB : DVB-T (terrestrial, antenna) COFDM 2K/8K, DVB-T2 : only for TV types '... T/12', DVB-C (cable) QAM
- Analogue video playback : NTSC, SECAM, PAL
- Digital video playback : MPEG2 SD/HD (ISO/IEC 13818-2), (MPEG4 SD/HD (ISO/IEC 14496-10
- (Digital audio playback (ISO/IEC 13818-3
- See selected countries on the TV type plate

Display and sound 7.4

Display / Picture

- : Diagonal size •
- "50PFL7956 : 127 cm / 50 -
- Easy 3D •
- : Picture enhancement •
- Pixel Precise HD -

- Display type : LCD Full HD, LED backlight •
- Panel resolution : 2560 × 1080p •
- Colour processing : 2250 trillion colours 17bit RGB •
- Brightness : 450 cd/m2 •
- Dynamic contrast : 500,000 : 1 •
- Response time (typical) : 2 (BEW equiv.) ms •

Sound

- Output power (RMS) : 34W @30%THD •
- Dolby Digital, Dolby Digital Plus, Dolby Pulse - Dolby and the double-D symbol are registered trademarks of Dolby Laboratories •
- Speaker types : 2 mid-high speakers, 1 woofer •

Video formats	
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	
(Resolutions (amongst others	
x 480p	— 60 Hz 640 •
x 600p	— 60 Hz 800 •
x 768p	— 60 Hz 1024 •
x 768p	— 60 Hz 1280 •
x 765p	— 60 Hz 1360 •
x 768p	— 60 Hz 1360 •
x 1024p	— 60 Hz 1280 •
x 1080i	— 60 Hz 1920 •
x 1080p	— 60 Hz 1920 •

Connections

- USB 2.0
- Ethernet LAN RJ-45
- (Wi-Fi 802.11b/g/n (built-in)

Supported USB file systems

- FAT 16, FAT 32, NTFS

Playback formats

- Containers : MPEG Program Stream, MPEG Transport Stream, AVI, MPEG-4, Matroska, Windows Media, ASF
- Video Codecs : MPEG-1, MPEG-2, MPEG-4 Part 2, MPEG-4 AVC (H264), WMV9
- Audio Codecs : MP3, AAC, HE-AAC V1, HE-AAC V2, WMA, AC3
- Image Codecs : JPEG
- Limitations : WMA (V2 up to V9.2), MPEG-4 AVC (up to level 4.0)

(Supported DLNA media server software (DMS

- Windows Media Player 11 (for Microsoft Windows XP, Vista (or Windows 7
- (TVersity 1.9.3 (pro) (for Windows XP
- (Twonky Media — PacketVideo 4.4.9 (for PC and Intel MacOX
- (Nero 9 — Nero MediaHome (for Microsoft Windows XP
- (Sony Vaio Media Server (for Microsoft Windows XP or Vista

- (Sony PS3 media server (for Windows XP
- (Google Media Server (Google desktop) (for Windows XP
- (DiXiM (for Windows XP
- (Macrovision Network Media Server (for Windows XP
- (Philips NAS SPD8020 (v. 1.2.9.47
- (Fuppes (for Linux
- (uShare (for Linux

(Supported DLNA mobile devices (DMS/DMC

- Nokia N78, N80, N81, N82, N92, N93, N93i, N95, N96, N800, N810
- Samsung SGH-i780

ESD regulations

This apparatus meets performance criteria A for ESD. In case the apparatus does not recover in DLNA mode due to electrostatic discharge, user interference is required

TV Rear

- EXT1 SCART (adapter included): Audio L/R, CVBS in, RGB •
- EXT2 YPbPr: Y Pb Pr, Audio L/R •
- (VGA (D-sub 15 •
- (HDMI 1 in ARC (v1.4 - 3D •
- (HDMI 2 in (v1.4 - 3D •
- (HDMI 3 in (v1.4 - 3D •
- (Audio In (DVI to HDMI / VGA) (stereo mini-jack 3.5mm •

- (Audio Out L/R — display synchronised (optical •
- (Headphones (stereo mini-jack 3.5mm •
- (Network LAN — (RJ45 •

TV Side

- (HDMI Side in (v1.4 - 3D •
- 2x USB •
- (Common interface slot (CAM •
- (SD card slot (SD High Capacity) (as Video stores memory •

Dimensions and weights 7.8

50PFL7956

Width 1242 mm

Height 580 mm

Depth 37 mm

Weight ± 22 kg

with TV stand . . .

Height 633 mm

Depth 253 mm

Weight ± 25 kg

UMv 3104 327 0050.2 - 110707

HDMI ARC	49
HDMI connection	49
Headphone volume	37
Help, Search	12
Home menu	16
I	
Infrared sensor	14
Internet	43
ISF Calibration, picture	38
K	
Keyboard, on screen	19
L	
Lock code	25
M	
Media server software	80
MHP	29
Music with photos	30
N	
Net TV	26
Net TV, connection	26
Net TV, open	27
Network, wired connection	64
Network, wired installation	44
Network, wireless installation	43
O	
One Touch Play	14
Online, rental video	27
Open source software	74
Options menu	17
P	
Parental rating	25
Pause TV	32
Pause TV, installation	32
PC, browse	30
PC, connect	30
PC, monitor	62
Perfect Pixel HD Engine	37
Photos	30
Photos, slideshow	30
Picture settings	37
Picture shift	17
Play videos	30
Power consumption	76
Product recycling	76
R	
Radio channels	18
Reception quality	42
Recording, installation	32
Recording, watch a	33
Rental video	27
Router	43
S	
Screen edges	37
SD card, install	65
Select list	18
Smart setting, sound	20
Smart settings, reset	38
Software, current version	47
Software, Internet update	47
Software, USB update	47
Sound settings	37
Subtitle, auto shift	45
Subtitles, language	25
Subtitles, On during mute	25
Surround mode	14
Surround sound	17

3	
3D depth	23
3D glasses	23
3D, 2D to 3D	23
3D, start	23
A	
Adjust menu	16
Ambilight colour	39
Ambilight, setup	39
Ambilight, switch on	39
Audio Description	46
Audio Out delay	45
Auto switch off	37
B	
Balance	37
Black bars	21
C	
CAM	66
Channel list copy	41
Channel list, options	18
Channel, favourite	19
Channel, hide	19
Channel, rename	19
Channel, reorder	18
Channel, switch	18
Channel, update	41
CI+	66
Cinema 21:9 format	21
Cinema 21:9 subtitle	21
Clock	42
Common interface slot	66
Component Video YPbPr	49
Connections	49
Connections, guide	49
Consumer Care	67
D	
Device, add	16
Device, remove	16
Device, rename	16
Device, reorder	16
Digital Text	35
DVB	42
DVD player, connect	51
DVI to HDMI adapter	49
E	
EasyLink, remote control	45
Eco settings	37
Encryption method	43
ESD	80
Expired recording	33
F	
Failed recording	33
Find	16
G	
Game console	34
Gamma	37
H	
HbbTV	29
HbbTV, block	29
HbbTV, pages	29
HD TV	7
HD video clip	7

System standby	14
T	
Text, dual screen	35
Text, freeze	35
Text, setup	36
Text, T.O.P. overview	35
TV network name	44
TV tour	6
U	
Universal access	46
USB Hard Drive	32
USB Hard Drive, installation	32
USB keyboard	61
USB mouse	62
USB, browse	30
V	
Video (CVBS) connection	50
Video selection	18
W	
Wall colour	39
Watch TV	18
WEP security encryption	43
WPA security encryption	43
WPS (Wi-Fi Protected Setup)	43

Europe

CE Declaration of conformity

English

Hereby, Philips Innovative Applications N.V. declares that this television is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Deutsch

Hiermit erklärt Philips Innovative Applications N.V. dass sich das Fernsehgerät in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Français

Par la présente Philips Innovative Applications N.V. déclare que cet appareil de télévision est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Nederlands

Hierbij verklaart Philips Innovative Applications N.V. dat deze televisie in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Español

Por medio de la presente Philips Innovative Applications N.V. declara que el televisor cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Italiano

Con la presente Philips Innovative Applications N.V. dichiara che questo televisore è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Português

Philips Innovative Applications N.V. declara que este televisor está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Ελληνικά

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Η Philips Innovative Applications N.V. ΔΗΛΩΝΕΙ ΟΤΙ Η ΤΗΛΕΟΡΑΣΗ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Svenska

Härmed intygar Philips Innovative Applications N.V. att denna TV står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Norsk

Philips Innovative Applications N.V. erklærer herved at utstyret TV er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

Dansk

Undertegnede Philips Innovative Applications N.V. erklærer herved, at dette TV overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Suomi

Philips Innovative Applications N.V. vakuuttaa täten että tämä televisio on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Polski

Firma Philips Innovative Applications N.V. niniejszym oświadcza, że "Telewizor" jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

Magyar

Alulírott, Philips Innovative Applications N.V. nyilatkozom, hogy a televízió megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Česky

Philips Innovative Applications N.V. tímto prohlašuje, že tento televizor je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Slovensky

Philips Innovative Applications N.V. týmto vyhlasuje, že tento televízor spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Slovensko

Philips Innovative Applications N.V. izjavlja, da je ta televizor v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Eesti

Käesolevaga kinnitab Philips Innovative Applications N.V. seadme Teler vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

Latviski

Ar šo Philips Innovative Applications N.V. deklarē, ka "Televizors" atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių

Šiuo Philips Innovative Applications N.V. deklaruoją, kad šis "Televizorius" atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Malti

Hawnhekk, Philips Innovative Applications N.V., jiddikjara li dan "Television" jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Direttiva 1999/5/EC.

Íslenska

Hér með lýsir Philips Innovative Applications N.V. yfir því að "Television" er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

A copy of the Declaration of Conformity is available at : <http://www.philips.com/support>



This equipment may be operated in the following European countries ...

AT	BE	BG	CH	CY	CZ
DE	DK	EE	ES	FI	FR
GB	GR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SK
SL	TR				

This equipment can be operated in other non-European countries.

Italia

Sistema TV wireless
Informazioni sulle normative applicabili

Per il mercato italiano

- uso privato: Decreto legislativo . 259 1/8/2003 Codice delle comunicazioni elettroniche. In particolare, l'articolo 104 specifica i casi in cui occorre richiedere un'autorizzazione generale, mentre l'Art. 105 indica i casi in cui l'utilizzo è libero
- regolamentazione della fornitura dell'accesso RLAN del pubblico alle reti e ai servizi pubblici di comunicazione elettronica (es. sistema TV wireless). Decreto ministeriale 28/5/2003 e relative modifiche, e Art. 25 (autorizzazione generale per reti e servizi di comunicazione elettronici) del Codice delle comunicazioni elettroniche
- uso privato: Decreto ministeriale 12/7/2007



Contact information

Argentina	0800 8888 7532 (gratuito)	Magyarország	06 80018 189 (Ingyenes hívás)
België / Belgique	0800 80 190 (gratis / gratuit) CHAT www.philips.com/support	Nederland	0800 023 0076 (gratis) CHAT www.philips.com/support
Brazil	0800 701 0203 Sao Paulo (11) 2121 0203	Norge	2270 8111 (lokalsamtale) CHAT www.philips.com/support
България	+3592 489 99 96 (Местен разговор)	Österreich	0800 180 016 (kostenlos) CHAT www.philips.com/support
Česká republika	800 142840 (Bezplatný hovor)	Polska	022 3491504 (połączenie lokalne)
China / 中国	4008 800 008	Portugal	800 780 903 (grátis) CHAT www.philips.com/support
Danmark	3525 8759 (lokalt opkald) CHAT www.philips.com/support	Română	0800 894910 (gratis)
Deutschland	0800 000 7520 (kostenlos) CHAT www.philips.com/support	Россия	- Москва (495) 961-1111 - Местный звонок - 8-800-200-0880 - Местный звонок CHAT www.philips.com/support
Ελλάδα	0 0800 3122 1280 Κλήση χωρίς χρέωση	Suisse / Schweiz / Svizzera	0800 002 050 (kostenlos / gratuit / gratuito)
España	900 800 655 (gratuito) CHAT www.philips.com/support	Србија	+381 114 440 841 (Lokalni poziv)
Estonia	6008600 (local)	Slovakia	0800 004537 (Bezplatný hovor)
France	0805 025 510 (gratuit) CHAT www.philips.com/support	Slovenija	00386 1 280 95 00 (Lokalni klic)
Hrvatska	01 6403 776 (Lokalni poziv)	Suomi	09 23113415 (paikallispuhelu) CHAT www.philips.com/support
Italia	800 088 774 (gratuito) CHAT www.philips.com/support	Sverige	08 5792 9100 (lokalsamtal) CHAT www.philips.com/support
Ireland	0160 11 161 (free)	Thailand / ประเทศไทย	66 2 652 8652
Northern Ireland	0800 055 6882	Türkiye	0800 261 3302 (Şehiriçi arama) CHAT www.philips.com/support
Казакстан	007 727 250 66 17 (local)	United Kingdom	0800 331 6015 (toll free) CHAT www.philips.com/support
Latvia	527 37691 (local)		
Lithuania	67228896 (local)		
Luxembourg / Luxemburg	0800 26 550 (kostenlos / gratuit) CHAT www.philips.com/support		



Non-contractual images / Images non contractuelles / Außervertragliche Bilder
All registered and unregistered trademarks are property of their respective owners.

Specifications are subject to change without notice
Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners
2011 © Koninklijke Philips Electronics N.V. All rights reserved

www.philips.com