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EN User Manual

PHILIPS

Contents

1	Important	3	7	Specifications	49
	Safety	3		Power and reception	49
	Care	5		Display and sound	49
	Legal	6		Display resolutions	49
	Sustainability	8		Multimedia	50
	Help and support	9		Connectivity	52
2	Use your TV	10		Help version	52
	TV controls	10	8	Index	53
	Watch TV	11			
	View program guide	15			
	Watch 3D	15			
	Play multimedia files	17			
	Interactive TV	19			
3	Use more of your TV	20			
	Pause TV	20			
	Record TV shows	21			
	Play games	24			
	Set locks and timers	25			
4	Change your TV settings	27			
	Picture and sound	27			
	Channels	29			
	Language settings	30			
	Universal access settings	31			
	Other settings	31			
	Update software	31			
	Reset all	32			
5	Connect your TV	33			
	About cables	33			
	Connect antenna	34			
	Connect devices	34			
	Connect more devices	41			
	Watch connected devices	43			
	Watch connected devices	43			
	Set up EasyLink devices	43			
6	Troubleshooting	46			
	General issues	46			
	Channel issues	46			
	Picture issues	47			
	Sound issues	47			
	Connection issues	48			
	Contact Philips	48			

1 Important

Safety

Precautions

Read and understand all instructions before you use your TV. If damage is caused by failure to follow the 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 spilled on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
- Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the TV.
- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Ensure that the power plug is fully inserted into the power socket. Loose power plugs can cause arcing or fire.

- When the TV is swiveled, ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- 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 damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25kg or 55lbs.
- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- To prevent the TV from toppling over, secure the TV stand to a suitable flat surface using the supplied screw. This procedure is only applicable to sets that have specially designed TV stands to support this feature.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. TP Vision Netherlands B.V. bears no responsibility for improper wall mounting that results in accident, injury or damage.
- If you need to store the TV, disassemble the stand from the TV. Never lie the TV on its back with the stand installed.
- 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.
- Parts of this product can be made of glass. Handle with care to avoid injury and damage.

Risk of injury to children!

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

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

Risk of swallowing batteries!

- The product/remote control may contain a coin type battery, which can be swallowed. Keep the battery 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 4 inches or 10 cm around the TV for ventilation. Ensure that curtains or other objects never cover the ventilation slots on the TV.

Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

Risk of hearing damage!

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

Low temperatures

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

3D health warning

For 3D TVs only.

- 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 six years of age as their visual system is not fully developed yet.
- Do not use the 3D glasses for any purpose other than watching this 3D TV.

Care

Screen

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

3D glasses

For sets with 3D glasses supplied.

Follow these instructions to take care of your glasses:

- Use a clean soft cloth (microfiber or cotton flannel) to clean the lenses to avoid scratching them. Never spray cleaner directly on the 3D glasses. You can use pre-moistened cleaning cloths from most well-known lens manufacturers of sunglasses.
- Do not expose the 3D glasses to direct sunlight, heat, fire or water. This may result in a product malfunction or fire.
- 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.

Placement tips

- Position the TV where light does not shine directly on the screen.
- The ideal viewing distance of this TV is three times its diagonal screen size. For example, if the diagonal screen size of the TV is 81cm / 32", the ideal viewing distance is ~2.5m / ~92" from the front of the screen.
- While seated, your eyes should be level with the center of the screen.

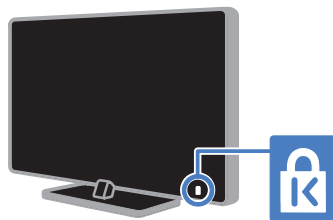
TV placement

You can apply the best sound settings for your TV by selecting the TV placement (wall mount or stand mount).

1. Press **Home**.
2. Select **[Setup]**, then press **OK**.
3. Select **[TV settings] > [General settings] > [TV placement]**.
4. Select **[On a TV stand]** or **[Wall mounted]**, then press **OK**.

Lock the TV

Your TV is equipped with a Kensington security slot at the base of the TV. To secure the TV, purchase a Kensington anti-theft lock (sold separately).



Legal

Notice

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The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. TP Vision Netherlands B.V. warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

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Terms of warranty

- Risk of injury, damage to TV or void of warranty! Never attempt to repair the TV yourself.
- Use the TV and accessories only as intended by the manufacturer.
- The caution sign printed on the back of the TV indicates risk of electric shock. Never remove the TV cover. Always contact Philips Customer Care for service or repairs.
- Any operation expressly prohibited in this manual, or any adjustments and assembly procedures not recommended or authorized in this manual shall void the warranty.

Pixel characteristics

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

Open source

This product contains software licensed under an open source license. For acknowledgments and license texts, please refer to the electronic in-product user manual. TP Vision Netherlands B.V. 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 licenses.

This offer is valid up to three years after product purchase to anyone in receipt of this information. To obtain source code, please send your request in English with product number to:

"Intellectual Property Department, TP Vision Netherlands B.V., P.O. Box 80077, 5600 KA Eindhoven, The Netherlands".

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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.



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AstroTV product is a software system developed by TQTV that comprises of a complete implementation of the Ginga Middleware Standard, compliant with Brazilian SBTVD Standard nr. 6 (Vols 1, 2, 3 and 4 – see references below).

Astro TV Middleware acknowledges the use of the following libraries internally:

Boost – <http://www.boost.org>

Libxml2v – <http://www.xmlsoft.org/>

Webkit / OWB – <http://www.sand-labs.org/owb>

Libjpeg - <http://www.iijg.org/>

Lua – <http://www.lua.org/>

OpenSSL – <http://www.openssl.org/>

SWIG – <http://www.swig.org>

Luajava – <http://www.keplerproject.org/luajava>

LibCURL – <http://curl.hazz.se>

PlayReady Final Products

Content owners use Microsoft PlayReady™ content access technology to protect their intellectual property, including copyrighted content. This device uses PlayReady technology to access PlayReady protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

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

Sustainability

Energy efficiency

This TV is designed with energy-efficient features. To access these features, press the **Green button** on the remote control.

- **Energy saving picture settings:** You can apply a combination of energy saving picture settings. While you watch TV, press the **Green button** and select **[Energy saving]**. Then select the **[Energy saving]** picture setting.
- **Screen off:** If you only want to listen to audio from the TV, you can switch off the TV display. Other functions continue to operate normally. While you watch TV, press the Green button and select **[Screen off]**.
- **Low standby power:** The advanced power circuitry reduces the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.
- **Auto switch off:** To conserve energy, set the TV to switch off automatically after a period of inactivity. While you watch TV, press the **Green button** and select **[Auto switch off]**. Then select the period after which the TV switches off.
- **Switch off inactive devices:** Switch off connected EasyLink HDMI-CEC (Consumer Electronic Control) compliant devices that are inactive. While you watch TV, press the **Green button** and select **[Inactive devices off]**.
- **Power management:** An advanced power management helps save the energy consumed by this TV. To view how your personalized TV settings affect the TV's relative power consumption, press **🏠**, then select **[Setup] > [Watch demos] > [Active Control demo]**.

Recycling

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



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



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

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste. Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.



Help and support

Use Help

To access the onscreen **[Help]** menu, press the **Blue button**.

To exit from the **[Help]** menu, press **⏠**.

Visit Philips website

If you can't find what you need in the onscreen **[Help]**, visit the Philips support website at www.philips.com/support.

At the Philips support website, you can also:

- Find answers to Frequently Asked Questions (FAQ)
- Download a printable PDF version of this user manual
- Email us a specific question
- Chat online with Philips Consumer Care (available in certain countries only)

Use the Philips connectivity guide

An easy-to-use connectivity guide gives you guidance on how to connect your TV to other devices. Visit

<http://www.connectivityguide.philips.com>.

Search the TV forum

Your question may have already been answered by the Philips TV community of users. Visit www.supportforum.philips.com.

Contact Philips

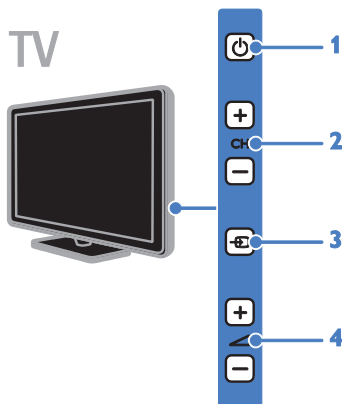
You can contact Philips Consumer Care in your country for support. The number is available in the leaflet accompanying this product, or online at www.philips.com/support.

Before you contact Philips, write down the model and serial number of your TV. You can find this information on the back of your TV or on the TV packaging.

2 Use your TV

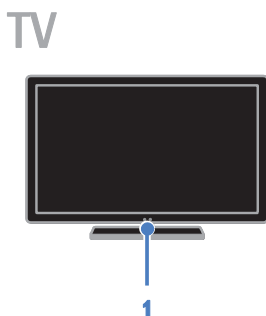
TV controls

Rear controls



1. **⏻ (Standby):** Switch the TV on or off.
2. **CH +/-:** Switch to the next or previous channel.
3. **☐ (SOURCE):** Watch a connected device.
4. **🔊 +/- (Volume):** Increase or decrease volume.

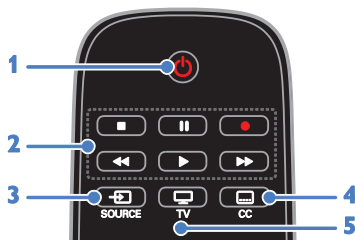
Sensors and indicators



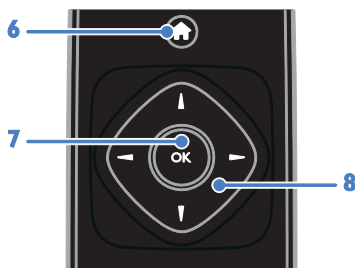
1. Standby indicator LED and remote control sensor

The standby LED indicates when your TV is in standby. Point the remote control at the sensor. Make sure that the line of sight between the remote control and the TV is not blocked.

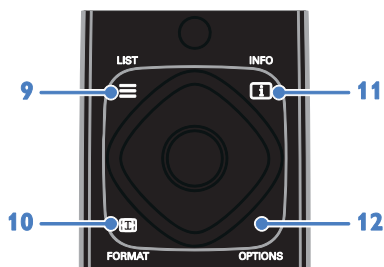
Remote control



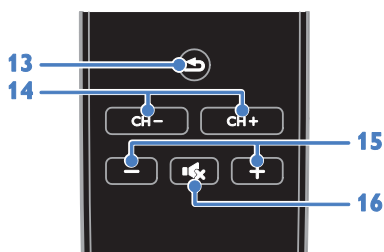
1. **⏻ (Standby):** Switch the TV on or to standby.
2. **Play buttons:** Control playback of multimedia files.
3. **☐ SOURCE:** Watch a connected device.
4. **☐ CC (Close caption):** Switch on or off closed captions. For programs that support closed captions.
5. **📺 TV:** Watch TV.



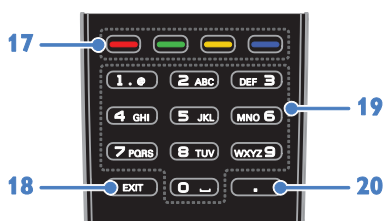
6. **🏠 (Home):** Access the Home menu.
7. **OK:** Confirm an entry or selection.
8. **▲▼▶◀ (Navigation buttons):** Navigate through menus and select items.



9. **☰ LIST:** Access the TV channel list.
 10. **FORMAT:** Change the picture format to suit the video source.
 11. **INFO:** Display information about current activity.
 12. **OPTIONS:** Access currently available options, picture and sound menus.



13. **↶ (Back):** Return to the previous menu page or exit from a TV function.
 14. **CH +/-:** Switch channels.
 15. **+/- (Volume):** Adjust volume.
 16. **MUTE:** Mute or restore audio.



17. **Color buttons:** Select tasks or options. The buttons function according to the services offered by the service provider.
 18. **EXIT:** Exit from menus or TV functions.
 19. **0-9 (Numeric buttons):** Select TV channels or enter text.
 20. **. (Dot):** Enter digital sub-channels.

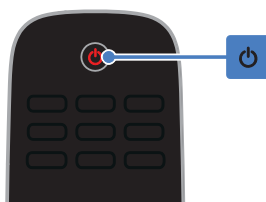
EasyLink controls

If you connect your TV to HDMI-CEC enabled devices, such as a Blu-ray player or home theater, you can control them at the same time with one remote control. Simply switch on EasyLink after connection.

Read more about Easylink in **Connect your TV > Set up Easylink devices > Control devices** (Page 44).

Watch TV

Switch TV on or off



Switch the TV on

- Connect the TV to the mains outlet and switch on the main power.
- If the TV is not switched on, the standby LED remains off. Press **⏻** on the TV.
- If the standby LED is lit, press **⏻** on the remote control.

Note: There is a short delay before the TV responds.

Tip: If you cannot find your remote control and want to switch on the TV from standby, press any button on the TV.

Switch TV to standby

Press **⏻** on the remote control. The standby LED on the TV switches to red.

Switch off the TV

Press **⏻** on the TV. The standby LED switches to off.

Note: Though your TV consumes very little energy when it is in standby or switched off, it does use some energy. If you are not going to use the TV for an extended period of time, disconnect the TV from the mains plug.

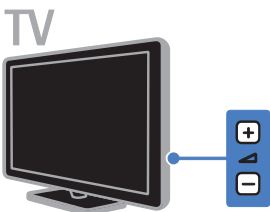
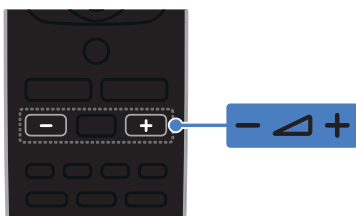
Automatic switch off

You can save energy with this TV's energy efficiency settings, which are enabled by default. If there is no user interaction (such as pressing a remote control button or a control on the TV) for four hours, the TV will automatically switch to standby.


To disable automatic switch off

1. While you watch TV, press the **Green button** on the remote control.
2. Select **[Auto switch off]**, then press **OK**.
3. Use the **Navigation buttons** to make a selection, then press **OK**.



Adjust TV volume




Increase or decrease the TV volume

- Press +/- on the remote control.
- Press  +/- on the TV.

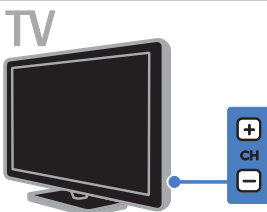
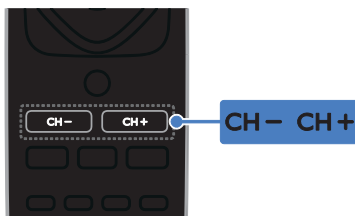
Mute or restore the TV volume

- Press  on the remote control to mute the volume.
- Press  again to restore the volume.

Adjust headphone volume

1. Press .
2. Select **[Setup] > [TV settings] > [Sound] > [Headphone volume]**, then press **OK**.
3. Select a level.

Switch TV channels




- Press **CH +/-** on the remote control or TV.
- Press the **Numeric buttons** to enter a channel number.

Manage favorite channels

You can view all channels or only a list of your favorite channels.


Create a list of your favorite channels

1. Press  **LIST**.
- The channel list is displayed.
2. Select the channel to mark as favorite, then press **OPTIONS**.
3. Select **[Add/remove favorites]**, then press **OK**.

The selected channel is marked with an asterisk.

To remove a channel from the favorites list, select **[Add/remove favorites]**, and then press **OK**.

Display your list of favorite channels

1. Press  **LIST**, then press **OPTIONS**.
2. Select **[List] > [Favorites]** to display channels in the favorite list.
3. Press **OK** to confirm.

Manage channel lists

After the channels are installed, you can:

- Filter channels.
- Switch between antenna and cable channels.
- Rename channels.
- Lock a channel.

Filter channels

1. While you watch TV, press **≡ LIST**.
2. Press **OPTIONS**, then select **[Filter]**.
3. Select an option, then press **OK**.

- **[Digital + Analog]**: Display all channels in the channels list.
- **[Digital TV channels]**: Display only digital channels.
- **[Analog channels]**: Display only analog channels.
- **[Free / scrambled]**: Display all channels in the channels list.
- **[Scrambled channels]**: Display only scrambled channels.
- **[Free channels]**: Display only free channels.

Note: The filtering options may vary according to your broadcaster.

Switch between antenna and cable channels

You can switch between antenna and cable channels.

1. While you watch TV, press **🏠**.
2. Select **[Setup] > [Channel settings] > [Channel installation] > [Antenna connection]**.
3. Select **[Antenna]** to watch antenna channels or **[Cable]** to watch cable channels, then press **OK**.

Rename channels

When you select a channel, its name appears. You can change this channel name.

1. While you watch TV, press **≡ LIST**. The channel list is displayed.
2. Select the channel to rename, then press **OPTIONS**.
3. Select **[Rename]**, then press **OK**. The onscreen keyboard is displayed.
4. Press the **Navigation buttons** to select each character, then press **OK**.
5. Once complete, select **[Done]**, then press **OK** to confirm.

Lock a channel

You can prevent unauthorized access to channels by locking them.

1. While you watch TV, press **≡ LIST**. The channel list is displayed.
2. Select the channel to lock, then press **OPTIONS**.
3. Select **[Lock channel]**, then press **OK**.
4. If prompted, enter the pin code. The channel is marked with a lock icon in the channels list.

Tip: To watch a locked channel, enter the pin code when prompted.

Watch connected devices

Before you can watch a device, connect the device to the TV. See **Connect your TV > Connect devices** (Page 34).

Select a device with SOURCE

1. Press **⏏ SOURCE**.
2. Select a device, then press **OK**.

Select a device from the Home menu

1. Press **🏠**.
2. Select **[Source]**, then press **OK**.
3. Select the device, then press **OK**.

To add or manage your connected devices, see **Connect your TV > Watch connected devices > Change device settings** (Page 43).

Use picture and sound presets

Your TV comes with predefined picture and sound settings. You can apply these settings or customize them.

Select your preferred picture settings

1. While you watch TV, press **OPTIONS**.
2. Select **[Picture and sound]** > **[Picture style]**, then press **OK**.
3. Select an option, then press **OK**:
 - **[Personal]**: Apply your personalized picture settings.
 - **[Vivid]**: Rich and dynamic settings, ideal for daytime viewing.
 - **[Football]**: Ideal settings for football matches.
 - **[Standard]**: Default settings that suit most environments and types of video.
 - **[Movie]**: Ideal settings for movies.
 - **[Photo]**: Ideal settings for photos.
 - **[Energy saving]**: Settings that conserve the most energy.

Select your preferred sound settings

1. While you watch TV, press **OPTIONS**.
2. Select **[Picture and sound]** > **[Sound style]**, then press **OK**.
3. Select an option, then press **OK**:
 - **[Personal]**: Apply your personalized sound settings.
 - **[Original]**: Settings that suit most environments and types of audio.
 - **[Movie]**: Ideal settings for movies.
 - **[Music]**: Ideal settings for listening to music.
 - **[Game]**: Ideal settings for games.
 - **[News]**: Ideal settings for spoken audio, such as the news.

Change picture format

You can change the picture format to suit the video source.

1. Press **[FORMAT]**.
2. Select a picture format, then press **OK**.

The available picture formats depend on the video source:

- **[Auto fill]**: Adjust the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion but not for HD or PC.
- **[Auto zoom]**: Enlarge the picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
- **[Super zoom]**: Remove the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.
- **[Movie expand 16:9]**: Scale 4:3 format to 16:9. Not recommended for HD or PC.
- **[Wide screen]**: Shows widescreen format content unstretched. Not recommended for HD or PC.
- **[Unscaled]**: Provide maximum detail for PC. Only available when PC mode is selected in the Picture menu.
- **[16:9 stretch]**: Scale 4:3 format to 16:9.
- **[4:3]**: Display the classic 4:3 format.

View program guide

What you can do

You can view channel schedules and program synopses for digital TV channels using program guides provided by the broadcasters. The availability of program guides is dependent on your broadcaster.

You cannot view a channel's program guide information if:

- the age rating of the channel is equal or higher than the age rating set on your TV.
- the channel is locked.

From the broadcaster

Access broadcaster program guide

1. Press **HOME**.
2. Select **[TV guide]**, then press **OK**.
3. If you are viewing the program guide for the first time, follow the onscreen instructions to update the guide.

Customize broadcaster program guide

You can customize the displayed information to:

- Remind you when programs start.
- Display only preferred channels.
- Change day of display.
- Schedule recordings of programs. See **Use more of your TV > Record TV shows > Schedule recordings** (Page 22).

Note: Options may vary according to the program information available from the broadcaster.

1. In the program guide, press **OPTIONS**.
2. Select an option, then press **OK**:
 - **[Acquire EPG data]:** Update program guide information.
 - **[Change day]:** Select the day to display program guide.
 - **[Search by genre]:** Search programs by genre.
 - **[All reminders]:** Display a list of all program reminders.

Watch 3D

What you need

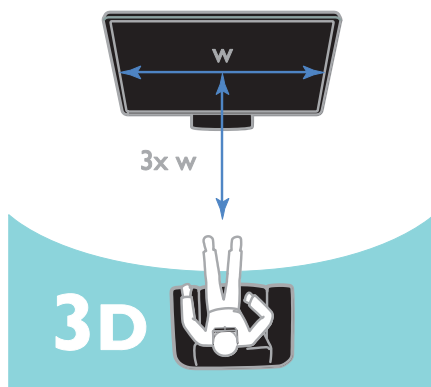
For certain models only.

Your TV is a 3D TV. Before you watch 3D, read the health warning information in **Important > Safety > 3D health warning** (Page 4).

To watch 3D on this TV, use the Philips 3D Easy passive glasses supplied with your TV.

Note:

- If you need additional glasses, purchase the Philips 3D Easy glasses, PTA416/PTA417. 3D glasses from other brands may reduce or lose the 3D effect.
- Some 3D formats are not supported.



To experience the best 3D effect while you watch 3D programs:

- Sit at a distance that is at least three times the width (w) of the TV screen. Do not sit more than 6m away.

Start 3D

Automatically enable 3D

The TV detects when 3D is available and prompts you to put on your 3D glasses to start watching. To set the response of the TV when a 3D signal is detected:

1. Press **HOME**.
2. Select **[Setup]** > **[TV settings]** > **[3D]** > **[Switch to 3D]**.
3. Select a setting, then press **OK**.
 - **[Automatic]**: TV switches to 3D automatically.
 - **[Notification only]**: TV displays notification first.
 - **[Never]**: No notification.

Select a source with 3D

For 3D discs:

1. Play the disc on a 3D Blu-ray disc player that is connected to the TV HDMI connector.
2. Press **↔ SOURCE**, then select the 3D Blu-ray disc player.

For 3D TV programs:

1. Select **[Watch TV]**, then switch to a TV channel that broadcasts 3D content.

Note:

- To switch back to 2D, press **OPTIONS**. Select **[Picture and sound]** > **[3D settings]** > **[2D]**.
- If you switch to another channel or a connected device, the TV switches to 2D.

Select 3D input format

The TV detects when 3D is available and prompts you to put on your 3D glasses to start watching. If the TV cannot detect the 3D signal due to a missing 3D signal tag, it displays images that overlap.

To switch the overlapping images to 3D, change the 3D format.

1. Press **OPTIONS**.
2. Select **[Picture and sound]** > **[3D settings]**.
3. Select a setting, then press **OK**.
 - **[3D - Side by side]**: Select if the TV displays pictures that overlap vertically.
 - **[3D - Top / bottom]**: Select if the TV displays pictures that overlap horizontally.
 - **[3D - Top / bottom inverted]** or **[3D - Side by side inverted]**: Select if the TV displays distorted images, such as the background appearing nearer to you.

Convert 2D to 3D

You can convert any 2D program to watch it in 3D.

1. Press **OPTIONS**.
2. Select **[Picture and sound]** > **[3D settings]** > **[2D to 3D conversion]**.

To adjust the 3D depth:

1. Press **OPTIONS**.
2. Select **[Picture and sound]** > **[3D effect]**.
3. Select an option, then press **OK**.

To switch off 2D to 3D conversion:

1. Press **OPTIONS**.
2. Select **[Picture and sound]** > **[3D settings]** > **[2D]**, then press **OK**.

Note: If you switch to another activity, the conversion stops.

Play multimedia files

What you can do

You can play videos, photos, and music on your TV from a USB device connected to the TV.

Play files from USB device

If you have photos, videos or music files on a USB storage device, you can play the files on TV.

Caution:

- TP Vision is not responsible if the USB storage device is not supported, nor is it responsible for damage or loss of data in the device.
- Do not overload the USB port. If you connect a USB storage device that consumes more than 500mA power, make sure that it is connected to its own external power supply.

Browse USB device

1. Connect the USB device to the USB connector on the TV.
2. Press **⏮ SOURCE**, select **[USB]**, and then press **OK**.
3. Select a file from the content browser, then press **OK** to start play.
4. Press the **Play buttons** to control play.
5. Optional: To select a different USB device, select **[USB device]** at the bottom of the TV screen.

Tips:

- Select the top bar to filter your files by type.
- Select **[Sort]** to arrange the files by name, date, or other fields.

Play options

Watch video

1. Select **[]** in the top bar.
2. Select a video, then press **OK**.
3. Optional: To play all the videos in a folder, select a video, then select **[Play all]**.
 - To skip to the next or previous video, press **CH+** or **CH-**.
 - To pause the video, press **OK**. Press **OK** again to resume playback.
 - To skip forward or backward 10 seconds, press **▶** or **◀**.
 - To search forward or backward, press **▶▶** or **◀◀**. Press the button repeatedly to toggle between different speeds.
 - To stop the video, press **■**.

Video options

While you play video, press **OPTIONS**, then press **OK** to select an option:

- **[Subtitles]**: Switch on or off closed captions. You can also select to display the closed captions only when the TV is muted.
- **[Audio language]**: Select an audio language.
- **[Repeat]**: Select **[Repeat]** to play the video file repeatedly or **[Play once]** to play the video file once.
- **[Shuffle on] / [Shuffle off]**: Enable or disable random play of video files.
- **[DivX(R) VOD]**: Display the DivX registration and deregistration codes for this TV.

Note:

To view information about a video (for example, played position, duration, title, or date), select the video, then press **[i] INFO**. To hide the information, press **[i] INFO** again.

Listen to music

1. Select **[]** in the top bar.
2. Select a track, then press **OK**.
3. Optional: To play all the tracks in a folder, select a track, then select **[Play all]**.
 - To skip to the next or previous track, press **CH+** or **CH-**.
 - To pause the track, press **OK**. Press **OK** again to resume playback.

- To skip forward or backward 10 seconds, press ► or ◀.
- To search forward or backward, press ►► or ◀◀. Press repeatedly to toggle between different speeds.
- To stop the music, press ■.

Music options

While you play music, press **OPTIONS**, then press **OK** to select an option:

- **[Repeat]:** Select **[Repeat]** to play a track or an album repeatedly, or select **[Play once]** to play a track once.
- **[Shuffle on] / [Shuffle off]:** Enable or disable random play of tracks.

Note:

To view information about a song (for example, title, artist or duration), select the song, then press **i** **INFO**.

To hide the information, press **i** **INFO** again.

View photos

1. Select **📷** in the top bar.
2. Select a photo thumbnail, then press **OK**.

Start a slideshow

If there are multiple photos in a folder, select a photo, then select **[Slideshow]**.

- To skip to the next or previous photo, press **CH+** or **CH -**.
- To stop the slideshow or close the photo, press **≡ LIST** or **■**.

Slideshow options

While you play a slideshow, press **OPTIONS**, then press **OK** to select an option:

- **[Shuffle off] / [Shuffle on]:** Enable or disable random display of pictures in the slideshow.
- **[Repeat]:** Select **[Repeat]** watch a slideshow repeatedly or **[Play once]** to watch once.
- **[Slideshow time]:** Select the display time for each photo in the slideshow.
- **[Slideshow transitions]:** Select the transition from one photo to the next.

Play DivX® VOD (Video On Demand)

This TV is DivX Certified(R) and plays high-quality DivX Video-On-Demand videos.

To play DivX VOD videos from a video store or from your computer, you must first activate DivX VOD on the TV. The DivX VOD activation of your TV is free of charge.

Register the TV

If the TV is not yet activated when you start the playback of a rental DivX video, the TV displays the DivX registration code to activate this TV.

To register, follow these steps.

1. When the TV displays the 8 or 10-digit registration code, write down the code and go to <http://vod.divx.com>.
 2. Download the DivX player software on your computer and install the software.
 3. Start the DivX player software and create a DivX Account: Click VOD > Create a DivX Account.
 4. In the DivX player, register the TV with the registration code of the TV: Click VOD > Register a DivX Certified Device.
 5. When prompted, download and save the registration video to a USB flash drive or your connected media server.
 6. Go to your TV and play the registration video on your TV. This completes the registration and activates DivX on your TV.
- Consult the DivX website for detailed support.

To de-register this TV:

1. Press **☒ SOURCE**.
2. Select **[Browse USB]**, then press **OK**.
3. Press **OPTIONS**, select **[DivX(R) VOD]**, and then press **OK**.
4. Follow the onscreen instructions.

Interactive TV

What you can do

For certain models only.

With interactive TV, you can view additional information or entertainment pages provided by digital TV broadcasters.

Note:

- You cannot download files to your TV with this feature.
- Not all TV programs, commercials and features include closed captioning information.
- You cannot respond to the digital content.

Visit the broadcaster's website for more information to see which interactive system is available in your country.

Here are some examples of interactive activities you can enjoy:

- View information about TV programs.
- Play games (for certain games only).

Access interactive TV

You can identify channels that offer interactive services by a message that invites you to press the **Red button** or **OK** to access an interactive program.

1. Switch to a digital channel with interactive services.
2. Press the **Red button** or **OK** to launch the interactive application.
3. Follow the onscreen instructions and use your remote control to navigate the interactive pages.

3 Use more of your TV

Pause TV

What you can do

While you watch a digital channel, you can pause a program to answer a phone call or to have a break. The broadcast is stored on a USB hard drive that is connected to the TV. You can resume playback of the program at any time.

Note:

- You can pause a program for a maximum of 90 minutes.

What you need

- Tune your TV to receive digital channels. See **Change your TV settings > Channels > Automatic installation** (Page 29).
- Connect a USB 2.0 compatible hard drive with a minimum capacity of 4 GB and a minimum transfer speed of 30 megabits per second. For optimal performance, use a hard drive with 32 GB disk space.

Install USB hard drive

To pause TV, you must connect a USB hard drive to the TV and format it.

If the TV does not recognize the USB hard drive, use a PC to format it to NTFS or FAT32 system, and then try again.

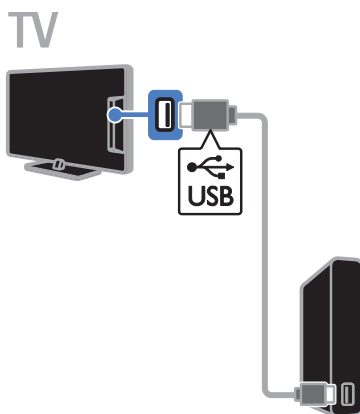
Caution:

- TP Vision is not responsible if the USB hard drive is not supported, nor is it responsible for damage or loss of data in the device.
- Formatting removes all data from the connected USB hard drive.

- The USB hard drive is formatted exclusively for this TV. Keep it permanently connected to the TV. You cannot access the contents of the USB hard drive from another TV or PC.
- Do not overload the USB port. If you connect a USB hard drive device that consumes more than 500mA power, make sure that it is connected to its own external power supply.

Note:

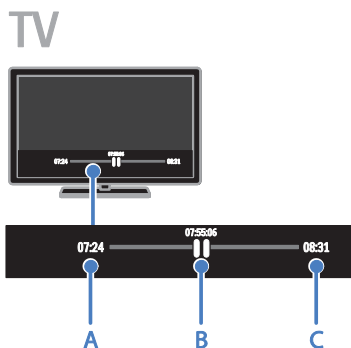
- Make sure that the TV and the USB hard drive are switched off.
- While you are formatting the USB hard drive, do not connect other USB devices to the TV.



1. Connect the USB hard drive directly to the TV, or if you intend to connect other USB devices in future, connect the USB hard drive through a USB hub.
2. Switch on the TV and the USB hard drive, if it has an external power source.
3. Switch to a digital TV channel.
4. Press **III** to start formatting the USB hard drive.
5. Follow the onscreen instructions to complete the formatting process.

Warning: The formatting process may take some time. Do not switch off the TV or disconnect the USB hard drive until this process is complete.

Pause a live TV broadcast



1. On a digital channel, press **⏸** to pause a TV program.
2. Press **▶** to continue watching.

The status bar shows these time indicators:

- A.** When the program was paused for the first time.
B. Where the paused program is currently playing.
C. Where the live program is currently broadcast.

- To watch the stored broadcast, press **◀◀** or **▶▶** to search backward or forward.
- To change playback speed, press **◀◀** or **▶▶** repeatedly.
- To watch the live TV broadcast, press **■**.

Note: If a recording is in progress, you cannot pause the TV broadcast.

The stored broadcast on the USB hard drive is deleted if you:

- Disconnect the USB hard drive.
- Switch the TV to standby.
- Start recording a TV program.
- Switch to another channel.
- Switch source to watch from a connected device - a Blu-ray disc player or digital receiver.

Record TV shows

What you can do

If your TV can receive program guides, you can record TV programs onto a USB hard drive. You can record both current TV programs as well as future TV programs.

Note:

- Recording is only supported in countries with program guides.

What you need

- Tune your TV to receive digital TV channels such as DVB broadcasts. See **Change your TV settings > Channels > Automatic installation** (Page 29).
- Connect a USB 2.0 compatible hard drive with a minimum capacity of 32 GB and a minimum transfer speed of 30 megabits per second. For optimal performance, use a hard drive with 250 GB disk space. You can use the same USB hard drive to record and pause TV shows.

Install USB hard drive

To record TV shows, you must connect a USB hard drive to the TV and format it.

If the TV does not recognize the USB hard drive, use a PC to format it to NTFS or FAT32 system, and then try again.

Caution:

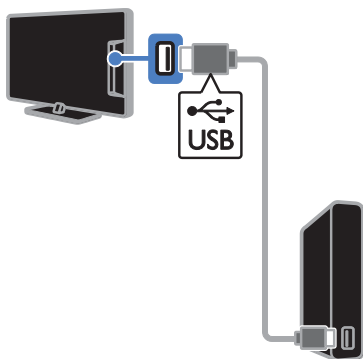
- TP Vision is not responsible if the USB hard drive is not supported, nor is it responsible for damage or loss of data in the device.
- Formatting removes all data from the connected USB hard drive.
- The USB hard drive is formatted exclusively for this TV. Keep it permanently connected to the TV. You cannot access the contents of the USB hard drive from another TV or PC.

- Do not overload the USB port. If you connect a USB hard drive device that consumes more than 500mA power, make sure that it is connected to its own external power supply.

Note:

- Make sure that the TV and the USB hard drive are switched off.
- While you are formatting the USB hard drive, do not connect other USB devices to the TV.

TV



1. Connect the USB hard drive directly to the TV, or if you intend to connect other USB devices in future, connect the USB hard drive through a USB hub.
2. Switch on the TV and the USB hard drive, if it has an external power source.
3. Switch to a digital TV channel.
4. Press **||** to start formatting the USB hard drive.
5. Follow the onscreen instructions to complete the formatting process.

Warning: The formatting process may take some time. Do not switch off the TV or disconnect the USB hard drive until this process is complete.

Start recording



One-touch recording

You can record the program you are currently watching with a single button.

1. While you watch TV, press **●**. Recording starts immediately. A pop-up window is displayed, indicating the end time of the program.
2. Optional: Use the **Navigation buttons** to mark the end time of the recording.
3. Select **[Confirm]**, then press **OK**.
4. To stop recording, press **■**.

Note:

- While recording, you cannot switch TV channels or pause a TV broadcast.
- If TV guide information is not available, a default time of 30 minutes is set for recording. You can change this if needed.

Schedule recordings

View program information

Depending on the status of a program, you can start watching it or schedule to record the program.

1. Press **▲**.
2. Select **[TV guide]**.
3. Select a channel and program, then press **OK**.

The program information is displayed.

Note: If you schedule recordings while you are away, make sure that you leave the TV in standby and keep the USB hard drive switched on.

Schedule a TV program recording

You can schedule a recording of an upcoming program that will be broadcast today or up to eight days later. You can also schedule a timed recording that is not linked to any program, if program guide information is not available.

1. Press **⏠**, then select **[TV guide]**.
2. Select the channel and program to record.
3. Optional: To record a program that will be broadcast on another day: press **OPTIONS**, select **[Change day]**, then select another day.
4. Select **[Record]**.
A pop-up window is displayed.
5. Select and change the recording details with the **Numeric buttons** and **Navigation buttons**.
6. Select **[Confirm]**, then press **OK**.

Change a scheduled recording

1. Press **⏠**.
2. Select **[Recordings]**, then press **OK**.
A list of scheduled recordings is displayed.
3. Select the recording, then select **[Adjust time]**.
4. Change the recording time as needed, then select **[Confirm]**.

Cancel a scheduled recording

1. Press **⏠**.
2. Select **[Recordings]**, then press **OK**.
A list of recordings is displayed.
3. Select the recording, then select **[Remove]**.
The schedule recording is canceled.

Watch recordings

1. Press **⏠**.
2. Select **[Recordings]**, then press **OK**.
A list of recordings is displayed.
3. Select a recording from the list, then press **OK**.
The recording starts to play.

Sort recordings

1. Press **⏠**.
2. Select **[Recordings]**, then press **OK**.
A list of recordings is displayed.
3. Press **OPTIONS**.
4. Select an option to sort by name, date, expiry date or type, then press **OK**.

Note:

- If a broadcaster limits the number of days a recording can be viewed after the program is broadcast, the list of recordings shows the number of days before the recording expires.
- If a recording has expired or if a broadcaster restricts playback, the recording cannot be played.
- If a scheduled recording is prevented by the broadcaster or if the recording does not occur as per schedule, it is marked as **[Failed]** in the recordings list.

Delete recordings

You can view a list of all recordings and the remaining USB hard disk space. To free up disk space, delete recordings.

1. Press **⏠**.
2. Select **[Recordings]**, then press **OK**.
A list of recordings is displayed.
3. Select the recording, then select **[Remove]**.

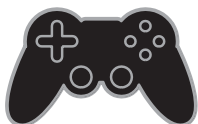
Play games

What you can do

On this TV, you can play regular or two-player* games, in full-screen with optimized picture settings for games.

*For certain models only

What you need



- Connect your game console to this TV. See **Connect your TV > Connect devices > Game console** (Page 37).
- For models support dual gaming, a two-player kit (model PTA436, sold separately) for two-player full-screen gaming. The kit comes with two pairs of gaming glasses.

Start gaming

1. Press **SOURCE**.
2. Select the game console, then press **OK**.
3. If needed, load a game disc on the game console, then select a game to play.
4. Follow the onscreen instructions to start gaming.

Start two-player full-screen gaming

For PFL49x8.

Some games offer multi-player and split-screen gaming. The 3D technology of this TV can display the split-screens as two full screen views. With the two-player gaming glasses, each player can experience different views on the same TV.

1. Press **SOURCE**.
2. Select the game console, then press **OK**.
3. If needed, load a game disc on the game console.
4. On the game console, select a multi-player or two-player game, then select split-screen viewing.
5. Press **OPTIONS** on the TV remote control.
6. Select **[Picture and sound] > [Two-player gaming]**.
7. Select **[Top / bottom]** or **[Side by side]**, then press **OK**.
8. Put on the two-player glasses to view the different screens.
9. To exit, press **HOME** twice.

Tip: To view game menus or scores, press **OK** to switch viewing mode.

Game settings

Picture setting for games

You can optimize the TV display for gaming without picture lag.

1. Press **HOME**.
2. Select **[Setup] > [TV settings] > [Picture]**, then press **OK**.
3. Select **[Game or computer] > [Game]**.

Sound preset for games

You can optimize sound effects for gaming.

1. Press **OPTIONS**.
2. Select **[Picture and sound] > [Sound style] > [Game]**, then press **OK**.

The TV is ready for gaming.

Note: When your gaming session ends, switch back to your usual sound setting.

Set locks and timers

Clock

You can display a clock on the TV. The clock displays the time that is broadcast by your TV service operator.

Display the TV clock

1. While you watch TV, press **OPTIONS**.
2. Select **[Clock]**, then press **OK**.

The clock is displayed on the top right-hand corner of the TV screen.

Change the clock mode

You can change the clock mode to automatic or manual. By default, it is set to automatic mode, which automatically synchronizes it to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, change the clock mode to **[Manual]**.

1. While you watch TV, press **⏠**.
2. Select **[Setup] > [TV settings] > [General settings]**.
3. Select **[Clock] > [Auto clock mode]**.
4. Select **[Automatic]** or **[Manual]**, then press **OK**.

Change the time zone

In countries with clock transmission data, you can change the time zone if **[Auto clock mode] > [Automatic]** is selected.

1. In the **[Clock]** menu, select **[Time zone]**.
2. Select your time zone, then press **OK**.

Set the clock manually

You can set the date and time manually. Before you start, set the clock mode to **[Manual]**.

1. In the **[Clock]** menu, select **[Date]** or **[Time]**, then press **OK**.
2. Set the time or date with the **Navigation buttons**.
3. Select **[Done]**, then press **OK**.

Sleep timer

You can switch the TV to standby after a specified time. During the countdown to the specified time, you can switch off your TV earlier or reset the sleep timer.

1. Press **⏠**.
2. Select **[Setup] > [TV settings] > [General settings] > [Sleep timer]**.
3. Select the sleep timer duration. The sleep timer can be set up for to 180 minutes. To switch off the sleep timer, set it to zero minutes.
4. Press **OK** to activate the sleep timer. After the specified time, the TV switches to standby.

Child lock

To protect children from unsuitable TV programs, you can lock the TV or block age rated programs.

Set or change the child lock code

1. Press **⏠**.
2. Select **[Setup] > [Channel settings] > [Child lock]**.
3. Select **[Set code]** or **[Change code]**.
4. Enter the code with the **Numeric buttons**.

Tip: If you access the channels from the channel list, you are prompted to enter your lock code. If you forget your code, enter '8888' to override any existing codes.

Lock or unlock channels

1. In the child lock menu, select **[Channel lock]**.
2. Enter the child lock code with the **Numeric buttons**.
3. Select the channels to lock or unlock. Restart the TV to activate the lock.

Note:

If you access the channels from the channel list, you are prompted to enter your lock code.

Age rating

You can set your TV to display only programs with age ratings lower than your child's age. This restriction only applies to digital channels from broadcasters that rate their programs according to age.

1. Press **Home**.
2. Select **[Setup] > [Channel settings]**.
3. Select **[Child lock] > [Age ratings lock]**.

You are prompted to enter the child lock code.

4. Enter the child lock code with the

Numeric buttons.

5. Select an age rating, then press **OK**.

All programs above the selected age rating are blocked.

For information on child lock codes, see **Use more of your TV > Set locks and timers > Child lock** (Page 25).

Content rating

You can block programs with objectionable content.

1. Press **Home**.
2. Select **[Setup] > [Channel settings]**.
3. Select **[Child lock] > [Content ratings lock]**.

You are prompted to enter the child lock code.

4. Enter your code with the **Numeric buttons.**

5. Select the content to block, then press **OK**.

The selected content is blocked.

4 Change your TV settings

Picture and sound

Settings assistant

You can select picture and sound settings with the help of the settings assistant, which demonstrates the effect of your chosen setting immediately.

1. While you watch TV, press **⏠**.
2. Select **[Setup]** > **[Quick picture and sound settings]**, then press **OK**.
3. Select **[Continue]**, then press **OK**.
4. Follow the onscreen instructions to choose your preferred settings.

More picture settings

You can change the settings in the Picture menu.

1. Press **⏠**.
2. Select **[Setup]** > **[TV settings]** > **[Picture]**, then press **OK**.
3. Select a setting to change, then press **OK**.

- **[Picture style]**: Select a predefined picture setting.
- **[Restore style]**: Restore the last-selected predefined picture setting.
- **[3D backlight contrast]** / **[Backlight contrast]**: Adjust the brightness of the display backlight.
- **[Color]**: Adjust the color saturation of the picture.
- **[Sharpness]**: Adjust the sharpness of the picture.
- **[Noise reduction]**: Select the amount of noise reduction for the picture.
- **[MPEG artifact reduction]**: Smoother transitions and haziness in the digital picture.
- **[Pixel Plus HD]** / **[Digital Crystal Clear]**: Fine-tune each pixel to match surrounding pixels and produce a brilliant, high-definition image.
 - **[Advance sharpness]**: Enable superior sharpness, especially on lines and contours in the picture.
 - **[Dynamic contrast]**: Dynamically enhance the details in the dark, medium, and light areas of the picture.
 - **[Dynamic backlight]**: Select a backlight level to optimize dynamic power consumption and picture contrast.
 - **[Color enhancement]**: Dynamically enhance the vividness and details of colors.
- **[Advanced]**: Access advanced settings such as gamma, tint settings and video contrast settings.
 - **[Gamma]**: Adjust the non-linear setting for picture luminance and contrast.
 - **[Color temp.]**: Select a predefined color temperature.
 - **[Custom color temp.]**: Customize color temperature setting. Only available if **[Color temp.]** > **[Custom]** is selected.
 - **[Video contrast]** / **[3D video contrast]**: Adjust video contrast.
 - **[Brightness]**: Adjust screen brightness.
 - **[Tint]**: Change the color balance.
- **[Game or computer]**: When viewing content from a connected game console, select **[Game]** to apply game settings. When a computer is connected through HDMI, select **[Computer]**. Make sure that **[Format and edges]** > **[Picture format]** > **[Unscaled]** is selected to view maximum detail.
- **[Format and edges]**: Access advanced settings to control the display format of the picture.
 - **[Picture format]**: Change the picture format.
 - **[Screen edges]**: Change the picture size.
 - **[Picture shift]**: If available, move the position of the picture.

More sound settings

You can change the settings in the Sound menu.

1. Press **⬆**.
2. Select **[Setup] > [TV settings] > [Sound]**, then press **OK**.
3. Select a setting to change, then press **OK**.

- **[Sound style]**: Access predefined sound settings.
- **[Restore style]**: Restore the last-selected predefined sound setting.
- **[Bass]**: Adjust the bass level of the speaker and headphones.
- **[Treble]**: Adjust the treble level of the speaker and headphones.
- **[Surround mode]**: Select a surround sound mode to enhance your audio experience.
- **[Auto incredible surround 3D]**: Select a surround sound mode to enhance your audio experience in 3D mode. For certain models.
- **[Headphone volume]**: Adjust headphone volume.
- **[Advanced]**: Access advanced settings to enhance your audio experience.
 - **[Auto volume leveling]**: Enable the reduction of sudden volume changes, for example, when switching channels.
 - **[TV speakers]**: Select the preferred speakers to stream audio from the TV. See **Connect your TV > Set up EasyLink devices > Select speaker output** (Page 44).
 - **[Clear sound]**: Enhance sound quality.
 - **[Audio Out format]**: Select the type of audio output through the digital audio output connector. Choose between **[Multichannel]** and **[Stereo]**.
 - **[Audio Out levelling]**: Set the output level for stereo audio. Select **[Less]** for a certain amount of loss in intensity or signal strength. Select **[More]** for no loss in intensity or signal strength.
 - **[HDMI 1 - ARC]**: Enable audio output from the ARC-compliant device connected to the HDMI 1 connector.

- **[Audio out delay]**: Automatically sync the image on the TV to the audio from a connected home theater. You do not need to use this setting when connecting the TV to a Philips home theater.

- **[Audio out offset]**: Adjust the setting for audio output delay. Available if **[Audio out delay]** is switched on.

Audio format

If an analog TV channel broadcaster streams stereo audio in multiple formats, you can select an audio format.

1. Press **⬆**.
2. Select **[Setup] > [Channel settings] > [Mono/Stereo]**.
3. Select a setting, then press **OK**.

Reset picture and sound

You can restore the default picture and sound settings, while the channel installation settings remain the same.

1. While you watch TV, press **⬆**.
2. Select **[Setup] > [TV settings] > [General settings] > [Factory settings]**, then press **OK**.
3. Select **[Reset]**, then press **OK**.

All TV settings (except for channel settings) are reset to the default factory settings.

Channels

Automatic installation

When the TV was switched on for the first time, a full installation of channels was performed.

To change your language, country, and reinstall all available TV channels, you can run this full installation again.

Start installation

Note: If you are prompted to enter a code, enter '8888'.

1. Press **Home**.
2. Select **[Setup]** > **[Search for channels]** > **[Reinstall channels]**, then press **OK**.
3. Select your country, then press **OK**.
4. Select your network, then press **OK**:
 - **[Antenna]:** Access free-to-air antenna transmissions.
 - **[Cable]:** Access cable transmissions.
5. Follow the onscreen instructions to select other options, if any.

The start menu for channel search is displayed.

6. Select **[Start]**, then press **OK**.
7. Once the channel search is complete, select **[Finish]**, then press **OK**.

Tip: Press **≡ LIST** to see the channel list.

Note: When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename these channels.

Install digital channels

If you know the channel frequency of the channels you want to install, you can search and store digital channels one by one. For best results, contact the service provider.

1. Press **Home**.
2. Select **[Setup]** > **[Channel settings]** > **[Channel installation]**.
3. Select **[Digital: Reception test]** > **[Search channel]**, then press **OK**.
4. Press the **Numeric buttons** to enter the channel frequency.

5. Select **[Search]**, then press **OK**.
6. When the channel is found, select **[Store]**, then press **OK**.

Update channel list

1. Press **Home**.
2. Select **[Setup]** > **[Search for channels]** > **[Update channels]**, then press **OK**.
3. Follow the onscreen instructions to update the channels.

Copy channels

ATTENTION: This feature is intended for dealers and service personnel.

You can copy channel lists from one Philips TV to another through a USB storage device. You do not need to search for channels or install them again on the second TV. The channel list file is small enough to fit on any USB storage device.

What you need

Two Philips TVs that have these properties:

- The same country setting
- The same year range
- The same hardware type, as indicated by the sticker on the back of the TV (for example TPM10.1LLA)
- Compatible software versions

Note: If you are prompted to enter a code, enter '8888'.

Step 1: Check the country setting

1. Switch on the first TV (with the channels that you want to copy to the second TV).
2. Press **Home**.
3. Select **[Setup]** > **[Search for channels]** > **[Reinstall channels]**, then press **OK**. The country menu is displayed.
4. Make a note of the current setting.
5. Press **Back**.
6. Press **[Cancel]** to exit.

Step 2: Copy channel list to USB

1. Connect a USB storage device to the first TV (with the channels installed on it).
2. Press **Home**.
3. Select **[Setup]** > **[Channel settings]**.

4. Select **[Channel installation] > [Copy channel list] > [Copy to USB]**, then press **OK**.

The channel list is copied to the USB storage device.

5. Disconnect the USB storage device.

Step 3: Copy channels to a TV with no channels installed

1. Switch on the second TV, on which you want to copy the channel list.

Initial installation starts.

2. Follow the onscreen instructions and select the same country as the TV whose channel list you want to copy.
3. Skip the search for channels.
4. Connect the USB storage device.
5. Press **⏠**.
6. Select **[Setup] > [Channel settings]**.
7. Select **[Channel installation] > [Copy channel list] > [Copy to TV]**, then press **OK**.

The channel list is copied to the TV.

8. Disconnect the USB storage device.

Step 3: Copy channels to a TV with pre-installed channels

1. Switch on the second TV, on which you want to copy the channel list.
2. Press **⏠**.
3. Select **[Setup] > [Search for channels] > [Reinstall channels]**, then press **OK**.

The country menu is displayed.

4. Make sure that the country setting is the same as the first TV.
5. Press **↩**.
6. Press **[Cancel]** to exit.
7. If the country setting is different, reinstall the second TV to match the country setting of the first TV. See **Change your TV settings > Reset all** (Page 32).
8. Connect the USB storage device to the second TV.
9. Press **⏠**.
10. Select **[Setup] > [Channel settings]**.
11. Select **[Channel installation] > [Copy channel list] > [Copy to TV]**, then press **OK**.

The channel list is copied to the second TV.

12. Disconnect the USB storage device.

Language settings

Menu language

1. While you watch TV, press **⏠**.
2. Select **[Setup] > [TV settings] > [General settings] > [Menu language]**.
3. Select a menu language from the list, then press **OK**.

Audio language

If the TV channel broadcasts multiple or dual audio languages, you can select your preferred audio language.

1. While you watch TV, press **OPTIONS**.
2. For digital channels, select **[Audio language]**. For analog channels, select **[Alternate audio]**. Press **OK** to confirm your selection.
3. Select from the available languages, then press **OK**.

Note:

If you have selected **[Alternate audio]** for analog channels, select between:

- **[Main]**: Primary audio language or
- **[SAP]**: Secondary audio language

Closed captions

You can display closed captions at all times or only when the TV is muted.

Note: Digital TV interactive applications are not accessible when closed caption text is switched on.

- Not all TV programs, commercials and features include closed captioning information. See your local TV program listings about channels with closed captions. The captioned programs are typically listed with service marks, such as 'CC', in the TV listings.

Switch on closed captions

1. While you watch TV, press **OPTIONS**.
2. Select **[Closed captions]**.
3. Select **[On]**, then press **OK**.

Select type of closed captions

1. While you watch TV, press **OPTIONS**.
2. Select **[Caption service]**.
3. Select the correct type of closed captions, then press **OK**.

Universal access settings

Switch on

Some digital TV broadcasters provide special audio and subtitle features for people who are hearing or visually impaired. You can switch these features on or off.

1. Press **⏠**.
2. Select **[Setup] > [TV settings] > [General settings]**.
3. Select **[Universal access] > [On]** or **[Off]**, then press **OK**.

Set audio feedback

When you press a button on the remote control or TV, you can set the TV to play a beep.

1. While you watch TV, press **OPTIONS**.
2. Select **[Universal access] > [Key beep] > [On]**, then press **OK**.

Other settings

TV demo

You can watch a demo to find out more about the features on this TV.

1. While you watch TV, press **⏠**.
2. Select **[Setup] > [Watch demos]**, then press **OK**.
3. Select a demo, then press **OK**.

Home mode

Some TV settings may not be available in **Shop** mode. To make sure that the correct TV settings are applied, set the TV to **Home** mode.

1. While you watch TV, press **⏠**.
2. Select **[Setup]**, then press **OK**.
3. Select **[TV settings] > [General settings] > [Location]**.
4. Select **[Home]** or **[Shop]**, then press **OK**.
5. Restart the TV.

Update software

Check version

1. Press **⏠**.
2. Select **[Setup] > [Software settings] > [Current software info]**, then press **OK**.

The current software version is displayed.

Caution: Do not install a lower version of software than the current version installed on your product. TP Vision cannot be held liable or be made responsible for problems caused by a software downgrade.

Update the software through one of these methods:

- update with USB storage device
- update from digital broadcast

Update with USB

What you need

- A USB storage device that has at least 256 megabytes of storage space, is FAT or DOS formatted, and has its write protection disabled.
- Access to a computer with a USB connector and Internet access.
- A file archiver program that supports the ZIP file format: for example, WinZip® for Microsoft® Windows®, or Stuffit® for Macintosh®.

Note: Do not use a USB hard drive.

Download the latest software

1. Connect the USB flash drive to your computer.
2. On your computer, launch a browser such as Internet Explorer® or Safari®, and see www.philips.com/support.
3. Find your TV and locate the software and drivers available for your TV set. The software upgrade is available as a compressed file (*.zip).
4. If the software version is higher than the version on your TV, click the software upgrade link.

5. Accept the license agreement and download the ZIP file to the USB flash drive.

Note: Some Internet browsers, such as Mozilla® Firefox® or Google® Chrome®, may download the ZIP file directly to your computer. If this happens, copy the file to your USB flash drive.

6. **For Internet Explorer:** Using a file archiver, extract autorun.upg from the downloaded ZIP file. Do not copy or place the extracted file into a folder.

6. **For Safari:** When the download is complete, autorun.upg is automatically extracted from the ZIP file to your computer. Copy the file to the USB flash drive. Do not copy or place the file into a folder.

7. Eject and disconnect the USB flash drive from the computer.

Upgrade the TV software

Caution:



- Do not switch off the TV or remove the USB flash drive during the software upgrade.
- If a power failure occurs during the upgrade, do not remove the USB flash drive from the TV. The TV continues the upgrade as soon as power is restored.
- If an error occurs during the upgrade, retry the upgrade from the beginning. If the error reoccurs, contact Philips Consumer Care.

1. Remove all USB devices such as a Wi-Fi adapter from the TV, then switch on the TV.

2. Connect the USB flash drive to the TV.

The software upgrade starts automatically. The upgrade is complete when a notification message appears on screen.

3. Before you restart the TV, disconnect the USB flash drive from the TV.

4. Press  on the remote control — do not press  more than once.

The TV switches off, then back on again. The upgrade is complete.


5. To prevent accidental updates to the TV software, reconnect the USB flash drive to your computer and delete autorun.upg.

Update from digital broadcast

When available, the TV can receive software updates through digital broadcasts. When a software update is received, you are prompted to update the software. We strongly recommend that you update the software when prompted.


Follow the onscreen instructions.

If you do not update the TV software when the update is received, you are prompted to save the update file. To update the software later:

1. Press .
2. Select **[Setup] > [Software settings] > [Local updates]**.
3. Select the file that you downloaded and follow the onscreen instructions to complete the update.

Reset all

You can reset all picture and sound settings and reinstall all TV channels on your TV.

1. Press .
2. Select **[Setup] > [TV settings] > [General settings] > [Reinstall TV]**, then press **OK**.
3. Follow the onscreen instructions.

5 Connect your TV

About cables

Cable quality

Before you connect devices to the TV, check the available connectors on the device. Connect the device to the TV with the highest quality connection available. Good quality connectors transfer picture and sound better.

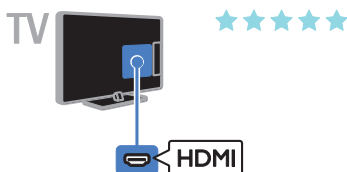
The connections shown in this user manual are recommendations only. Other solutions are possible. For more examples, visit <http://www.connectivityguide.philips.com>.

Tip: If your device has only composite or RCA connectors, use a composite (CVBS) cable to connect the device to the CVBS/TV connector on the TV.

HDMI

An HDMI connection has the best picture and sound quality.

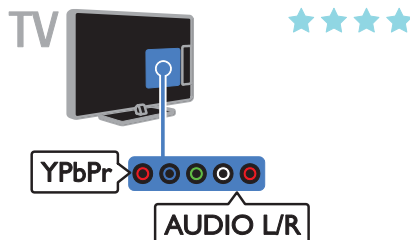
- An HDMI cable combines video and audio signals. Connect HDMI for high-definition (HD) TV signals, and to switch on EasyLink.
- An HDMI Audio Return Channel (ARC) connector allows output of TV audio to an HDMI ARC compliant device.
- Connect HDMI cables shorter than 5 meters/16.4 feet.



Y Pb Pr

Component video (Y Pb Pr) only transmits video. For sound, also connect to Audio Left/Right.

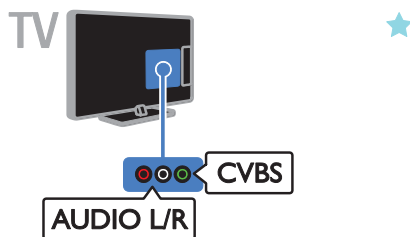
- The Y Pb Pr connection can handle high-definition (HD) TV signals.
- Match the Y Pb Pr connector colors to the cable plugs.



CVBS

CVBS only transmits video. For sound, also connect to Audio Left/Right.

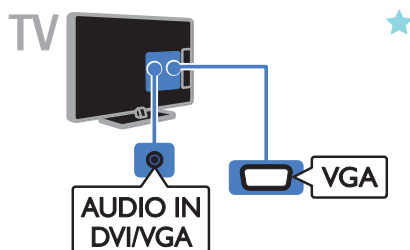
CVBS connections provides standard picture quality.



VGA

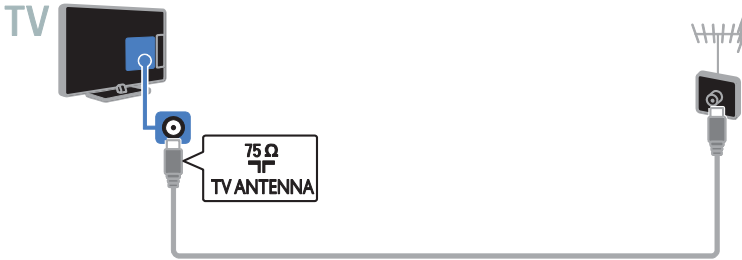
You can connect VGA to display PC content on the TV.

VGA only transmits video. For sound, also connect to AUDIO IN.



Connect antenna

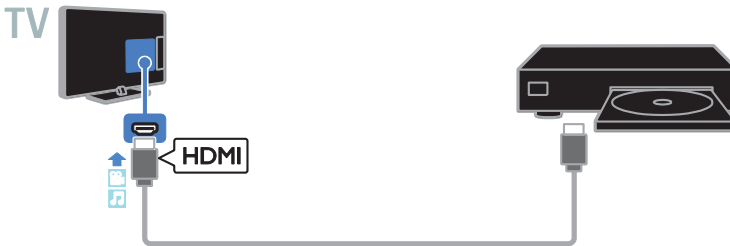
Connect the antenna to the TV.



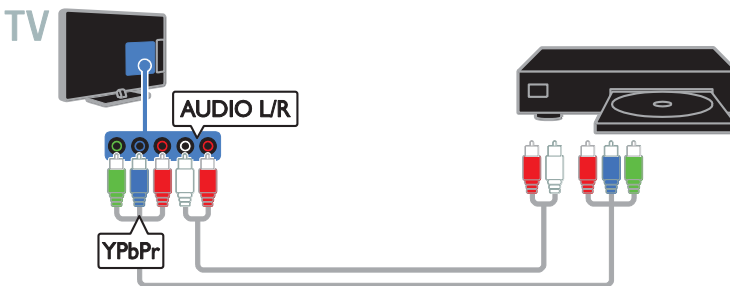
Connect devices

Blu-ray or DVD disc player

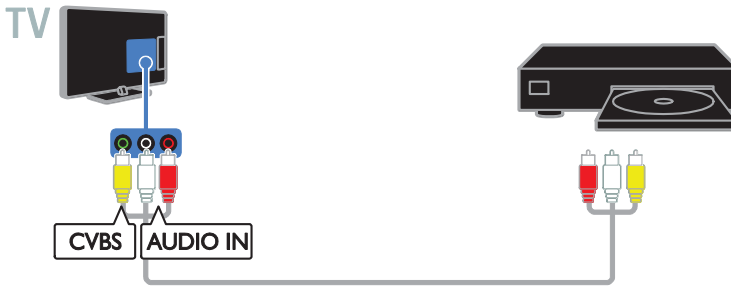
Connect the disc player with an HDMI cable to the TV.



Connect the disc player with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.

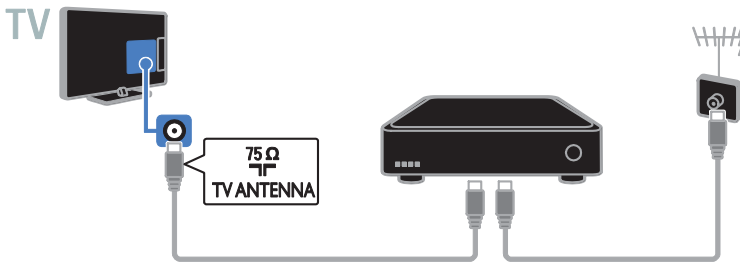


Connect the disc player with a composite cable (CVBS) and an audio L/R cable to the TV.



TV receiver

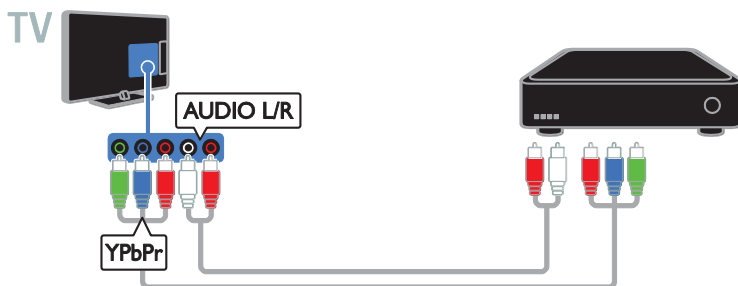
Connect the digital TV receiver with an antenna cable to the TV.



Connect the satellite or digital TV receiver with an HDMI cable to the TV.



Connect the digital TV receiver with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.

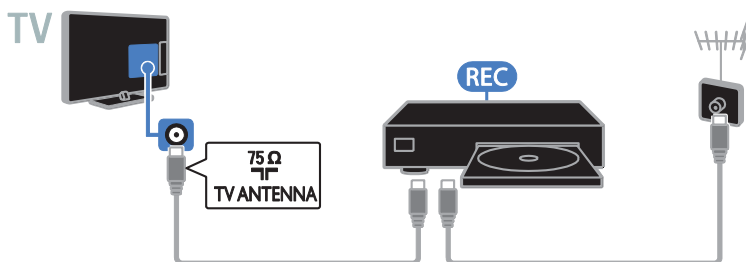


Connect the digital TV receiver with a composite cable (CVBS) and an audio L/R cable to the TV.



Video recorder

Connect the recorder with an antenna cable to the TV.



Connect the recorder with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.



Connect the recorder with a composite cable (CVBS) and an audio L/R cable to the TV.

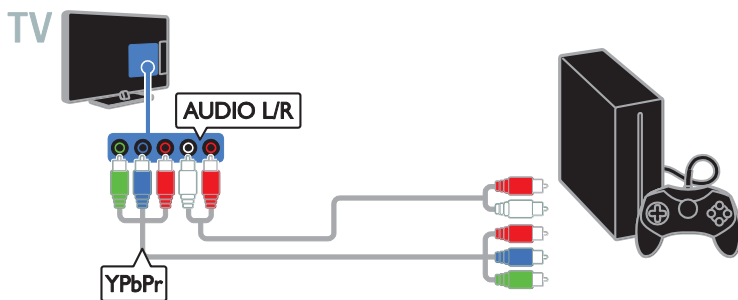


Game console

Connect the game console with an HDMI cable to the TV.



Connect the game console with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.

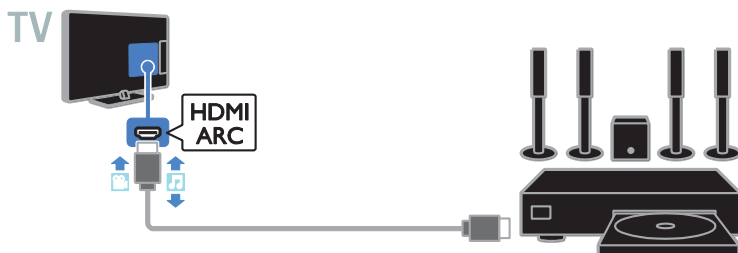


Connect the game console with a composite cable (CVBS) and an audio L/R cable to the TV.

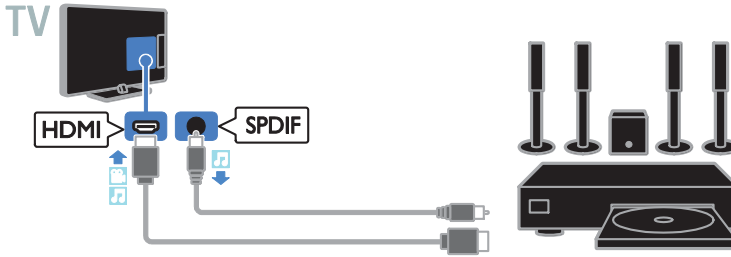


Home theater

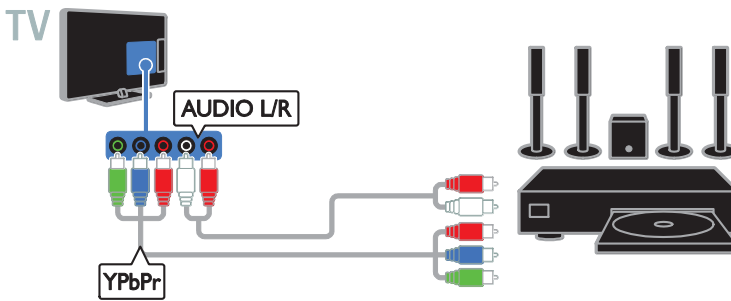
Connect an HDMI-ARC compliant home theater with an HDMI cable to the TV.



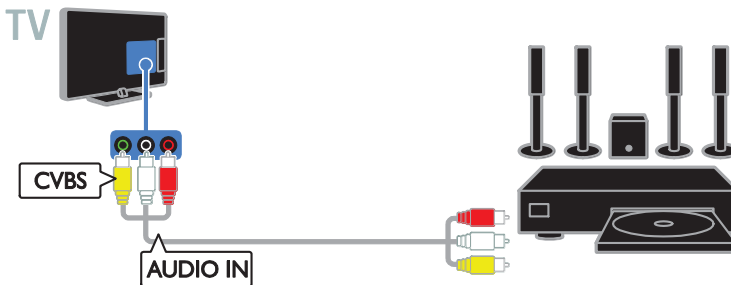
Connect the home theater with an HDMI cable and a coaxial audio cable to the TV.



Connect the home theater with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.



Connect the home theater with a composite cable (CVBS) and an audio L/R cable to the TV.



Digital camera

Connect the digital camera with a USB cable to the TV.



Digital camcorder

Connect the digital camcorder with an HDMI cable to the TV.



Connect the digital camcorder with a component video cable (Y Pb Pr) and an audio L/R cable to the TV.

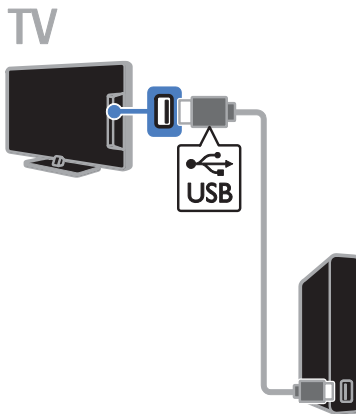


Connect the digital camcorder with a composite cable (CVBS) and an audio L/R cable to the TV.

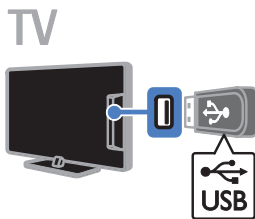


Connect more devices

USB storage device



Connect the USB hard drive with a USB cable to the TV.



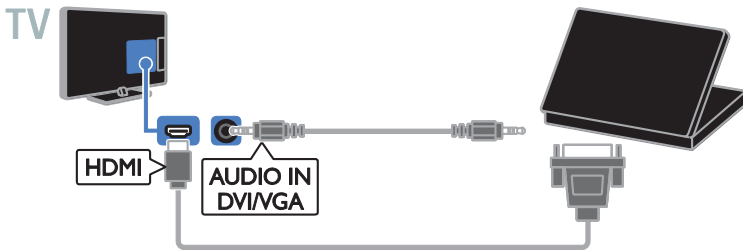
Connect the USB flash drive with a USB cable to the TV.

Computer

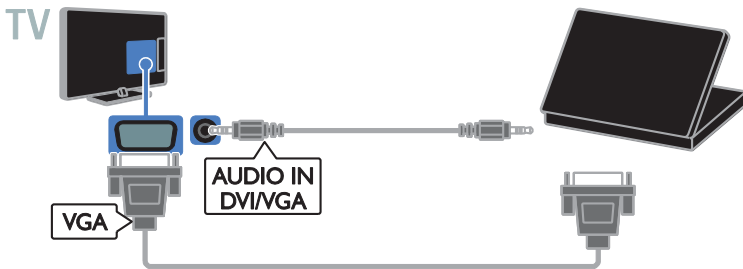
Connect the computer with an HDMI cable to the TV.



Connect the computer with a DVI-HDMI cable and an audio cable to the TV.



Connect the computer with a VGA cable and an audio cable to the TV.



Watch connected devices

Select a device

Before you can watch a device, connect the device to the TV. See **Connect your TV > Connect devices** (Page 34).

Select a device with SOURCE

1. Press **SOURCE**.
2. Select a device, then press **OK**.

Select a device from Home menu

1. Press **HOME**.
2. Select **[Source]**, then press **OK**.
3. Select a device, then press **OK**.

Change device settings

Change the device type

You can change the device type to easily access it from the Source menu.

1. Press **SOURCE**.
2. Select the device, then press **[Device type]**.
3. Select a suitable device type, then press **OK**.

Rename a device

You can rename a device after it is connected to the TV.

1. Press **SOURCE**.
2. Select the connector, then press **[Rename]**.
3. Use the onscreen keypad to enter a new name.
4. When complete, select **[Done]**, then press **OK**.

Reset device settings

You can reset the type and name of the device to default settings.

1. In the **[Source]** menu, select the device and press **OPTIONS**.
2. Select **[Original name and icon]**, then press **OK**.

Set up EasyLink devices

What you can do

You can get the most out of your HDMI-CEC-compliant devices with Philips EasyLink enhanced control features. Connect your HDMI-CEC compliant devices through HDMI to your TV and control them at the same time with your TV remote control.

Note: Other brands describe HDMI-CEC functionality differently. Some examples are Anynet (Samsung), Aquos Link (Sharp) or BRAVIA Sync (Sony). Not all brands are fully compatible with Philips EasyLink.

After you switch on Philips EasyLink, the following features are available:

One-touch play

When you play an HDMI-CEC compliant device, the TV switches on from standby and switches to the correct source.

One-touch standby

When you press **POWER** on the TV remote control, the TV and all HDMI-CEC compliant devices switch to standby mode.

Auto switch off inactive devices

If a HDMI-CEC compliant device has been inactive for some time, it switches to standby mode.

EasyLink remote control

You can control multiple HDMI-CEC compliant devices with your TV remote control.

System audio control

If you connect an HDMI-CEC compliant device that includes speakers through the HDMI ARC connector, you can choose to hear the TV audio from those speakers instead of the TV speakers.

Retain picture quality

If your TV picture quality is affected by the picture-processing features of other devices, you can switch on Pixel Plus Link to retain picture quality.


Maximize display for subtitled video

Some video subtitles can create a separate subtitle bar under the video, which limits the video display area. To maximize the video display area, you can switch on auto subtitle shift and display the subtitles on the video image.

What you need

- Connect a HDMI-CEC compliant device to the TV. You can connect more than one HDMI-CEC device. See **Connect your TV > Connect devices** (Page 34).
- Configure each HDMI-CEC compliant device properly.
- Switch on EasyLink.


Switch on EasyLink

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[General settings]** > **[EasyLink]**.
3. Select **[EasyLink]** > **[On]**, then press **OK**.



Control devices

If you connect multiple HDMI-CEC devices that support this setting, you can control all such devices through the TV remote control.

Note: This is an advanced setting. Devices that do not support this setting cannot respond to the TV remote control.



1. Press .
2. Select **[Setup]** > **[TV settings]** > **[General settings]** > **[EasyLink]** > **[EasyLink remote control]**.
3. Select **[On]** or **[Off]**, then press **OK**.

Tips:

- To switch back to TV control, press , then select **[Watch TV]**.
- To control another device, press , then select the device from the Home menu.


EasyLink buttons

You can control HDMI-CEC compliant devices with these buttons on the TV remote control:

- : Switch the TV and the connected device on or to standby.
- **Play buttons:** Control video or music play.
- **Numeric buttons:** Select a title, chapter or track.
- **OK:** Start, pause or resume play on the connected device, activate a selection, or access the device menu.
- : Display the TV Home menu.

Switch off connecting devices


You can also set the TV to switch off the connecting HDMI-CEC compliant devices if they are not the active source. The TV switches the connecting device to standby after 10 minutes of inactivity.

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[General settings]** > **[EasyLink]**.
3. Select **[Auto switch off devices]** > **[On]**, then press **OK**.

Select speaker output

If a connected device is HDMI Audio Return Channel (HDMI ARC) compliant, you can output TV audio through an HDMI cable. Additional audio cables are not required. Make sure you connect the device to the HDMI ARC connector on the TV. See **Connect your TV > About cables > HDMI** (Page 33).

Switch on HDMI ARC

1. Press .
2. Select **[Setup]** > **[TV settings]** > **[Sound]** > **[Advanced]** > **[HDMI 1 - ARC]**.
3. Select one of the following, then press **OK**.
 - **[On]:** Hear the TV audio through the connected HDMI-ARC compliant device.
 - **[Off]:** Hear the TV audio through the TV speakers, or through a device connected through the digital audio out connector.

Note: Make sure that all HDMI-CEC settings are properly set up on the connected device.

Set up TV speakers

1. Press **⏠**.
2. Select **[Setup]** > **[TV settings]** > **[Sound]** > **[Advanced]** > **[TV speakers]**.
3. Select an option, then press **OK**:
 - **[Off]**: Switch off TV speakers.
 - **[On]**: Switch on TV speakers.
 - **[EasyLink]**: Switch off TV speakers, and stream TV audio to a connected HDMI-CEC audio device.
 - **[EasyLink autostart]**: When a HDMI-CEC audio device is connected, automatically switch off TV speakers and stream TV audio to the device.

Change TV audio streaming

You can switch audio between TV speakers and a connected amplifier at any time.

1. Press **OPTIONS**.
2. Select **[Picture and sound]** > **[Speakers]**.
3. Select one of the following, then press **OK**.
 - **[TV]**: On by default.
Stream TV audio through TV and the connected HDMI-CEC audio device until the connected device switches to system audio control. TV audio is then streamed through the connected device.
 - **[Amplifier]**: Stream audio through the connected HDMI-CEC device. If system audio mode is not enabled on the device, audio continues to stream from the TV speakers. If **[EasyLink autostart]** was selected, the TV prompts the connected device to switch to system audio mode.

Retain picture quality

If your TV picture quality is affected by the picture-processing features of other devices, you can switch on Pixel Plus Link.

Switch on Pixel Plus Link

1. Press **⏠**.
2. Select **[Setup]** > **[TV settings]** > **[General settings]** > **[EasyLink]**.
3. Select **[Pixel Plus Link]** > **[On]**, then press **OK**.

Maximize video display

Some subtitles create a separate subtitle bar under the video that limits the video display area. To maximize the video display area, you can switch on auto subtitle shift. The subtitles then display over the video image.

Switch on auto subtitle shift

1. Press **⏠**.
2. Select **[Setup]** > **[TV settings]** > **[General settings]** > **[EasyLink]**.
3. Select **[Auto subtitle shift]** > **[On]**, then press **OK**.

6 Troubleshooting

General issues

The TV does not switch on:

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

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

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

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

The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behavior.

If the TV continues to be unresponsive to the remote control, view the remote control sensor through a digital camera -- if you press any button on the remote control and notice red flickering at the sensor, the remote control is working but the TV may need to be checked by Philips Consumer Care. This troubleshooting procedure is not applicable to remote controls that are paired wirelessly with the TV.

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

This is normal behavior. When the TV is disconnected and reconnected to the power supply, the startup screen is displayed at the next startup.

To switch on the TV from standby, press **⏻** on the remote control or press any key on the TV.

The standby light on the TV blinks red:

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

The TV audio is in the wrong language:

Change your audio language by pressing **OPTIONS**, then select **[Audio language]** or **[Alternate audio]**.

The TV or Smart TV menu is in the wrong language:

Change the menu to your preferred language.

For more information, see **Change your TV settings > Language settings > Menu language** (Page 30).

You forgot the 4-digit code to unlock the channel blocking feature (child lock):

Enter '8888'.

You want to upgrade your TV software:

Visit www.philips.com/support and download the latest software package for your TV. Software installation instructions and release notes indicating what's been updated are also available at the site. Full instructions on how to upgrade your TV software are also available at **Change your TV settings > Update software** (Page 31).

Channel issues

You want to install TV channels:

See **Change your TV settings > Automatic installation** (Page 29) for instructions on installing analog or digital channels.

Previously installed channels do not appear in the channel list:

Make sure that the correct channel list is selected.

No digital channels were found during the installation:

- See the technical specifications to make sure that your TV supports SATVD-T or SBTVD-T in your country.
- Make sure that all cables are properly connected and that the correct network is selected.

Picture issues

The TV is on, but there is no picture or the picture is distorted:

- Make sure that the antenna is properly connected to the TV.
- Make sure that the correct device is selected as the display source.
- Make sure that the external device or source is properly connected.

There is sound but no picture:

Make sure that the picture settings are set correctly.

There is poor TV reception from an antenna connection:

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

There is poor picture quality from connected devices:

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

The TV did not save your picture settings:

Make sure that the TV location is set to **Home**. You can change and save settings in this mode.

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

Change to a different picture format.

The picture format keeps changing with different channels:

Instead of the picture format **[Auto zoom]**, select a different picture format.

The picture position is incorrect:

Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

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

The TV is in **[Shop]** mode. To remove the e-sticker, set the TV to **[Home]** mode, then restart the TV. See **Change your TV settings > Other settings > Home mode** (Page 31).

The computer display on the TV is not stable:

- Make sure that your PC uses the supported resolution and refresh rate. See **Specifications > Display resolutions** (Page 49).
- Change the TV picture format to **[Unscaled]**.

Sound issues

There is picture but no sound from the TV:

If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Make sure that all cables are properly connected.
- Make sure that the volume is not muted or set to zero.
- Make sure that the TV speakers setting is selected. Press **OPTIONS**, select **[Picture and sound] > [Speakers]**, and then select **[TV]**.
- Make sure that the TV audio output is connected to the audio input on the HDMI-CEC enabled or EasyLink compliant home theater device. Sound should be heard from the home theater speakers.
- Some devices may require you to manually enable HDMI audio output. If HDMI audio is already enabled, but you still do not hear audio, try changing the digital audio format of the device to PCM (Pulse Code Modulation). Refer to the documentation accompanying your device for instructions.

There is picture but sound quality is poor:

Make sure that the sound settings are correctly set.

Connection issues

There are problems with HDMI devices:

- Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from an HDMI device.
- If the TV does not recognize the HDMI device and no picture is displayed, switch the source from one device to another and back again.
- If there are intermittent sound disruptions, make sure that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI to DVI cable, make sure that an additional audio cable is connected to AUDIO L/R or AUDIO IN (mini-jack only).

You cannot use EasyLink features:

Make sure that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

If an HDMI-CEC compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased:

When a HDMI-CEC audio device is connected this behavior is normal.

USB device content is not displayed:

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

Audio and picture files on your USB storage device do not play or display smoothly:

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

Contact Philips

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

If you are not able to resolve your problem, refer to the frequently asked questions (FAQs) for this TV at www.philips.com/support. You can also consult and contribute to the Philips TV community at www.supportforum.philips.com.

If you wish to speak with or email a Philips representative, contact the Philips Consumer Care in your country. You can find the contact details in the leaflet accompanying this TV or at www.philips.com/support.

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

7 Specifications

Power and reception

Product specifications are subject to change without notice.

Power

- Mains power: AC 110-240 V~, 50-60 Hz
- Standby power consumption: < 0.5 W
- Ambient temperature: 5 to 40degree Celsius
- For power consumption, see the product specifications at www.philips.com/support.

Reception

- Antenna input: 75 ohm coaxial (F-type)
- TV system: PAL M, PAL N, NTSC M, SATVD-T, SBTVD-T
- Video playback: NTSC, PAL

Display and sound

Picture / Display

- Display type: LED backlight Full HD
- Diagonal size:
 - 81 cm / 32 inches
 - 99 cm / 39 inches
 - 107 cm / 42 inches
 - 117 cm / 46 inches
 - 127 cm / 50 inches
- Aspect ratio: 16:9 (widescreen)
- Panel resolution:
 - For HD sets: 1366 X 768 p
 - For FHD sets: 1920 x 1080 p
- Picture enhancement:
 - PFL40x8G: Digital Crystal Clear
 - PFL49x8G: Pixel Plus
- Perfect Motion Rate (PMR):
 - PFL40x8G: 120 Hz
 - PFL49x8G: 180 Hz
- 3D: Easy 3D (For PFL49x8G only)

Sound

- Output power (RMS): 20 W @ 10% THD
- Incredible Surround
- Clear Sound
- Mono / Stereo

Display resolutions

Computer formats - HDMI (Resolution - refresh rate)

640 × 480 - 60 Hz
 800 × 600 - 60 Hz
 1024 × 768 - 60 Hz
 1280 × 800 - 60 Hz
 1280 × 960 - 60 Hz
 1280 × 1024 - 60 Hz
 1360 × 768 - 60 Hz

For Full HD TV only:
 1400 × 1050 - 60 Hz
 1440 × 900 - 60 Hz
 1600 × 1200 - 60 Hz
 1680 × 1050 - 60 Hz
 1920 × 1080 - 60 Hz

Computer formats - VGA (Resolution - refresh rate)

640 × 480 - 60 Hz
 800 × 600 - 60 Hz
 1024 × 768 - 60 Hz
 1280 × 1024 - 60 Hz
 1360 × 768 - 60 Hz
 1600 × 1200 - 60 Hz
 1920 × 1080 - 60 Hz

Video formats (Resolution - refresh rate)

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

Multimedia

Supported multimedia connections

Note: Multimedia file names must not exceed 128 characters.

- USB: Connect only those USB devices that consume 500mA of power or less.
 - NTFS, FAT 16 (Read only)
 - FAT 32

Supported image files

- JPEG: *.jpg, *.jpeg, *.mpo, *.jps
- GIF (87a, 89a): *.gif
- PNG: *.png, *.pns
- BMP: *.bmp, *.dib
- JPS: *.jps
- PNS: *.pns

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.mpe .mpeg .vob	PS	MPEG-1	1920x1088	25p, 30p, 50i, 60i	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), DVD-PCM, Dolby Digital	Yes	Yes	Yes	Yes	No
		MPEG-2	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	Yes	Yes	No
		MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	Yes	Yes	No
.ts	TS	H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, Dolby Pulse	Yes	Yes	Yes	Yes	No
		MPEG-2	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	Yes	Yes	No
		MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	Yes	Yes	No
		H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30		Yes	Yes	Yes	Yes	No
		MVC	1920x1080 @ field rate = 50, 60Hz 1920x1080p @ frame rate = 24, 25, 30Hz 1280x720p @ frame rate = 50, 60Hz	-	30		Yes		Yes	No	

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.ts .mts .m2s .m2	M2TS TTS	MPEG-2	1920x1088	25p, 30p, 50i, 60i	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, Dolby Pulse	Yes	Yes	No	No	No
		MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	No	No	No
		H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30		Yes	Yes	No	No	No
		MVC	1920x1080p @ field rate = 50, 60Hz 1920x1080p @ frame rate = 24, 25, 30Hz 1280x720p @ frame rate = 50, 60Hz	-	30		Yes	Yes	No	No	No
.ts .m2s .mts	AVCHD	MPEG-2	1920x1088	25p, 30p, 50i, 60i	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, Dolby Pulse	Yes	Yes	No	No	No
		MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30		Yes	Yes	No	No	No
		H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30		Yes	Yes	No	No	No

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.ts .mts .mts	AVCHD	MVC	1920x1080 @ field rate = 50, 60Hz 1920x1080p @ frame rate = 24, 25, 30Hz 1280x720p @ frame rate = 50, 60Hz	-	30	MPEG-1 (L1&L2), MPEG-1,2,2.5 L3, AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, Dolby Pulse	Yes	Yes	No	No	No
.m4v	M4V	H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30	AAC	Yes	Yes	Yes	Yes	No
.ism/manifest .mpd	frag MP4	H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30	AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, WMA, WMA-PRO	No	No	Yes	Yes	Yes
		MVC	1920x1080 @ field rate = 50, 60Hz 1920x1080p @ frame rate = 24, 25, 30Hz 1280x720p @ frame rate = 30, 30Hz	-	30		No	No	Yes	Yes	Yes

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.mp4	MP4	MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30	AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, WMA, WMA-PRO	Yes	Yes	Yes	Yes	Yes
		H.264	1920x1088	-	30		Yes	Yes	Yes	Yes	No
		MVC	1920x1088 @ field rate = 50, 60Hz 1920x1088p @ frame rate = 24, 25, 30Hz 1280x720p @ frame rate = 50, 60Hz	-	30		Yes	Yes	Yes	Yes	No
		WHV9VC1	1920x1088	30p, 60i	30		Yes	Yes	Yes	Yes	No
.miv .m3d	MKV	MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30	MPEG-1 (L1&L2), MPEG- 1,2,2.1 L3, AAC/HE-AAC (v1&v2), Dolby Digital, Dolby Digital Plus, WMA, WMA-PRO	Yes	Yes	No	No	No
		H.264	1920x1088	-	30		Yes	Yes	No	No	No

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.asf .wmv	ASF	MPEG-2	1920x1088	25p, 30p, 50i, 60i	20	MPEG-1 (L1&L2), MPEG- 1,2,2.1 L3, AAC/HE-AAC (v1&v2), Dolby Digital Plus, Dolby Digital, WMA, WMA-PRO	Yes	Yes	Yes	Yes	No
		MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	20		Yes	Yes	Yes	Yes	No
		WHV9VC1	1920x1088	30p, 60i	20		Yes	Yes	Yes	Yes	No
.avi .avid	AVI	MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	4	MPEG-1 (L1&L2), MPEG- 1,2,2.1 L3, AAC/HE-AAC (v1&v2), Dolby Digital Plus, Dolby Digital, WMA, WMA-PRO	Yes	Yes	No	No	No
		DhX 3.11	1920x1088	30p, 60i	4		Yes	Yes	No	No	No
.webm	WebM	VP8	1920x1088	-	5	Ogg Vorbis	Yes	Yes	Yes	Yes	No
.swf	SWF	Contains FLV	-	-	30	-	No	No	No	No	Yes
.divx	DHF (DIVX)	MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	20	MPEG-1 (L1&L2), MPEG- 1,2,2.1 L3, AAC/HE-AAC (v1&v2), Dolby Digital Plus, Dolby Digital, WMA, WMA-PRO	Yes	No	No	No	No
		DhX 3.11	1920x1088	30p, 60i	20		Yes	No	No	No	No

Supported audio/video formats

File Extensions	Container	Video codec	Maximum resolution	Max. Frame Rate (fps)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.3gp .3g2	3GP	MPEG-4 ASP	1920x1088	25p, 30p, 50i, 60i	30	AAC/HE-AAC (v1&v2), AMR	Yes	Yes	No	No	No
		H.264	1920x1088	25p, 30p, 50p, 60p, 60i	30		Yes	Yes	No	No	No
		H.263	1920 x 1088	30p	30		Yes	Yes	No	No	No
.mov .qt	QuickTime	-	-	-	30	-	Yes	Yes	No	No	No

Supported audio formats

File Extensions	Container	Video codec	Maximum resolution	Frequency (kHz)	Max. Bit Rate (Mbps)	Audio codec	USB	Media server	CE-HTML	HTML5	YouTube
.mp3	MP3	-	-	48	384	MPEG-1,2,2.5 L3	Yes	Yes	Yes	Yes	No
.wma .asf	WMA (V2 up to V9.2)	-	-	48	192	WMA	Yes	Yes	Yes	Yes	No
.wma	WMA Pro	-	-	96	768	WMA, WMA Pro	Yes	Yes	Yes	Yes	No
.lpcm (PC) .pcm (PC)	LPCM	-	-	192	768	LPCM	No	Yes	No	No	No
.wav (PC)	LPCM	-	-	192	768	LPCM	Yes	Yes	No	No	No
.aif (mac) .aiff (mac)	LPCM	-	-	192	768	LPCM	Yes	Yes	No	No	No
.aac .mp4 .m4a	AAC	-	-	48	1024	AAC, HE-AAC (v1&v2)	Yes	Yes	Yes	Yes	No
.pls .m3u	Playlists	-	-	-	-	-	Yes	Yes	No	No	No
.m4a	M4A	-	-	48	1024	AAC, HE-AAC (v1&v2)	Yes	Yes	Yes	Yes	No

Connectivity

Rear

- SERV. U: Service port
- AUDIO IN: DVI/VGA (stereo 3.5mm mini-jack)
- VGA: PC input
- Composite and Audio (AV IN) : CVBS/Y, Audio L/R
- Component and Audio: CVBS/Y Pb Pr, Audio L/R
- TV ANTENNA: 75 ohm coaxial
- SPDIF OUT: Cinch (Digital Audio Out)
- HDMI 1 ARC (Audio Return Channel)
- HDMI 2 (For PFL49x8G only)

Side

- USB
- HDMI
- Headphones: stereo 3.5mm mini-jack

Help version

UMv 400878131102

8 Index

3

- 3D • 15
- 3D glasses, care • 5
- 3D, 2D to 3D • 16
- 3D, change format • 16
- 3D, health warning • 4
- 3D, start • 16
- 3D, switch off • 16

A

- age rating • 26
- amplifier, select output • 44
- audio language • 30
- auto subtitle shift • 45
- Auto switch off, devices • 44

C

- cables • 33
- channel list • 13
- channel list, copy • 29
- channels • 12
- channels, favorites • 12
- channels, hide or unhide • 13
- channels, install (automatic) • 29
- channels, install (digital) • 29
- channels, logo • 13
- channels, reinstall • 32
- channels, rename • 13
- channels, sort • 13
- channels, switch • 12
- channels, update • 29
- child lock • 25
- clock • 25

- closed captions • 30
- codecs, supported • 50
- connect, computer • 42
- connect, digital camcorder • 40
- connect, digital camera • 40
- connect, disc player • 34
- connect, external hard disk • 41
- connect, game console • 37
- connect, home theater • 38
- connect, recorder • 36
- connect, TV receiver • 35
- connect, USB device • 41
- connected device, rename • 43
- connectivity • 52
- connectivity guide • 9
- connectors • 33
- contact Philips • 9
- content rating • 26
- controls • 10
- CVBS, composite video • 33

D

- demo • 31
- devices, watch • 43
- digital camcorder • 40
- digital camera • 40
- digital channels, install • 29
- digital radio • 13
- disc player, connect • 34
- display resolutions • 49
- display specifications • 49
- DivX VOD • 18
- DTV_i • 19

E

EasyLink • 43
EasyLink, controls • 44
EasyLink, enable • 44
EasyLink, features • 43
EasyLink, onscreen control • 11
EasyLink, remote control • 44
EasyLink, TV speakers • 44
energy efficient settings • 8
EPG, broadcaster • 15
external hard disk • 41

F

favorite channels, list • 12

G

game console, connect • 37
game settings • 24
games, two player • 24

H

HbbTV • 19
HDMI • 33
HDMI ARC • 33
help, onscreen • 9
Help, version • 52
home mode • 31
home theater, connect • 38

I

install channels, automatic • 29
Interactive TV • 19

K

Kensington lock • 5
key beep • 31

L

language, menu • 30
lock TV • 5

M

mode, home or shop • 31
Multimedia Home Platform (MHP) • 19
multimedia, play files • 17
multimedia, play options • 17
multimedia, supported formats • 50

O

online forum • 9

P

pause TV • 20
pause TV, USB hard drive • 20
PC, display resolutions • 49
picture format • 14
picture settings • 27
picture settings, reset • 28
Pixel Plus link • 45
placement, stand or wall • 5
placement, tips • 5
play, USB files • 17
power specifications • 49
presets, picture and sound • 14
product support • 9
program guide, broadcaster • 15

R

rear controls • 10
record TV, one-touch • 22
record TV, USB hard drive • 21
record, TV programs • 21
recorder, connect • 36
recordings, delete • 23

recordings, schedule • 22
recordings, watch • 23
recycle • 9
reinstall • 32
remote control • 10
rename channels • 13
rename, connected device • 43

S

safety • 3
schedule, recordings • 22
screen care • 5
sensors • 10
settings assistant • 27
settings, audio format • 28
settings, game • 24
settings, picture • 27
settings, sound • 28
shop mode • 31
sleep timer • 25
software, check version • 31
software, digital update • 32
software, USB update • 31
sound settings • 28
sound settings, reset • 28
sound specifications • 49
source, select • 13
standby • 11
standby LED • 10
sustainability • 8
switch TV on, off • 11

T

trademarks and copyrights • 7
TV controls • 10
TV guide, broadcaster • 15
TV receiver, connect • 35
TV speakers, mute • 12

U

universal access, enable • 31
USB, play files • 17

V

VGA • 33
volume • 12

Y

YPbPr, component video • 33

Artefacto:

Modelo:

Fabricante/Importador:

Fábrica Austral de Productos Eléctricos S.A.

Dirección: Vedia 3892 - Buenos Aires

Fecha de Venta:

--

Nro. de serie

Firma y sello de la casa vendedora.

Fábrica Austral de Productos Eléctricos S.A.

en adelante denominada “la empresa”, garantiza al comprador de este artefacto por el término de (1) año a partir de la fecha de adquisición, el normal funcionamiento contra cualquier defecto de fabricación y/o vicio de material, y se compromete a reparar el mismo —sin cargo alguno para el adquirente— cuando el mismo fallare en situaciones normales de uso y bajo las condiciones que a continuación se detallan:

1. Este certificado de garantía es válido únicamente en la República Argentina. El certificado debe ser completado por la casa vendedora y ser presentado por el usuario conjuntamente con la factura original de compra.
2. Serán causas de anulación de esta garantía en los casos que corresponda:
 - 2.1. Uso impropio o distinto del uso doméstico.
 - 2.2. Exceso o caídas de tensión eléctrica que impliquen uso en condiciones anormales.
 - 2.3. Instalación y/o uso en condiciones distintas a las marcadas en el “Manual de instalación y uso” que se adjunta a esta garantía.
 - 2.4. Cualquier intervención al artefacto por terceros no autorizados por la empresa.
3. La garantía carecerá de validez si se observare lo siguiente:
 - 3.1. Enmiendas o raspaduras en los datos del certificado de garantía o factura.
 - 3.2. Falta de factura original de compra que detalle tipo de artefacto, modelo, número de serie y fecha que coincida con los del encabezamiento del presente certificado.
4. No están cubiertos por esta garantía los siguientes casos:
 - 4.1. Los daños ocasionados al exterior del gabinete.
 - 4.2. Las roturas, golpes, caídas o rayaduras causadas por traslados.
 - 4.3. Los daños o fallas ocasionados por deficiencias, sobretensiones, descargas o interrupciones del circuito de alimentación eléctrica o rayos, deficiencias en la instalación eléctrica del domicilio del usuario o conexión del artefacto a redes que no sean las especificadas en el Manual de Uso del mismo.
 - 4.4. Las fallas, daños, roturas o desgastes producidos por el maltrato o uso indebido del artefacto y/o causadas por inundaciones, incendios, terremotos, tormentas eléctricas, golpes o accidentes de cualquier naturaleza.
 - 4.5. Las fallas o daños ocasionados en desperfectos en la línea telefónica.
 - 4.6. Las fallas producidas por una mala recepción ocasionada en el uso de una antena deficiente o en señales de transmisión débiles.
5. Las condiciones de instalación y uso del artefacto se encuentran detalladas en el Manual de Uso del mismo.
6. La empresa no asume responsabilidad alguna por los daños personales o a la propiedad al usuario o a terceros que pudieran causar la mala instalación o uso indebido del artefacto, incluyendo en este último caso a la falta de mantenimiento.
7. En caso de falla, el usuario deberá requerir la reparación a la empresa a través del Service Oficial y/o Talleres Autorizados más próximos a su domicilio y cuyo listado se acompaña al presente. La empresa a segura al usuario la reparación y/o reposición de piezas para su correcto funcionamiento en un plazo no mayor a 30 días contados a partir de la fecha de solicitud de reparación, salvo caso fortuito o fuerza mayor.

8. Toda intervención del servicio técnico realizada a pedido del usuario dentro del plazo de garantía, que no fuera originada por falla o defecto alguno cubierto por este certificado, deberá ser abonado por el interesado de acuerdo a la tarifa vigente.
9. El presente certificado anula cualquier otra garantía implícita o explícita, por la cual y expresamente no autorizamos a ninguna otra persona, sociedad o asociación a asumir por nuestra cuenta ninguna responsabilidad con respecto a nuestros productos.
10. En caso de que durante el período de vigencia de esta garantía el artefacto deba ser trasladado a las Delegaciones Oficiales y/o Talleres Autorizados de Service para su reparación, el transporte será realizado por la empresa y serán a su cargo los gastos de flete y seguros y cualquier otro que deba realizarse para su ejecución.



PHILIPS

Centros de Servicios Autorizados

■ CAPITAL FEDERAL

ATTENDANCE S.A.

Av. Monroe 3351 C.A.B.A.
Tel.: 4545-5574 / 0704 ó 6775-1300

DIG TRONIC

Av. San Martín 1762 (C1416CRS) C.A.B.A.
Tel.: 4545-5574 / 0704 ó 6775-1300

ELECTROTEL

Centro: Av. Córdoba 1357 C.A.B.A. Tel.: 4811-0084 al 9

Caballito: J.M. Moreno 287 C.A.B.A. Tel.: 4903-6967/6854/8983

Belgrano: Virrey del Pino 2527 C.A.B.A. Tel.: 4788-2071

Mataderos: Saladillo 2527 C.A.B.A. Tel.: 5554-9400

GMS Electronica

J. B. Alberdi 3425 - Tel.: 4619-1631

Necochea	Electrónica Camejo	Calle 63 Nº 1745	(02262) 426134
Pehuajó	Calcagni Carlos Alberto	Zuviria 794	(02396) 472665
Pergamino	ACV Sistemas **	Dr. Alem 758	(02477) 421177
Pergamino	El Service *	Italia 70	(02477) 418000
San Nicolás	Servicec **	Bv. Alvarez 148	(03461) 454729 ó 429578
San Nicolás	Sodo SRL*	Luis Viale 362	(03461) 428955
San Pedro	Electrónica Menisale	Mitre 1695	(03329) 425523
Tandil	Lazzarini Oscar Rafael	Pellegrini 524	(02293) 442167
Tres Arroyos	Saini Fabián y Sergio	Av. Belgrano 562	(02983) 427369
Zárate	Electrónica Spinozzi	Ituzaingo 1030	(03487) 427353

■ GRAN BUENOS AIRES

Avellaneda	Casa Torres S.A.	Av. Mitre 2559	4255-5854
F. Varela	Casa Torres S.A.	San Martín 2574	4255-5854
G. Laferrere	ElectroByte Soluciones y Servicio	Olegario Andrade 6018	4626-1322
Lanús	Casa Torres S.A.	Anatole France 2018	4255-5854
L. de Zamora	Attendance SA Lomas	Laprida 485 (Av H. Higgen 9228)	4292-8900 / 4239-2115
L. de Zamora	Electrotel Lomas	Italia 78	4244-0397
Marcos Paz	Tecnicentro	Monteagudo 208	(0220) 4770334
Moreno	Argentónica	Teniente Camilli 102	(0237) 463-9500
Morón	Servotronic Morón	Ntra. Sra. Buen Viaje 1222	4627-5656
Olivos	Electrotel Olivos	D F Sarmiento 3562	4799-1398
Quilmes	Casa Torres S.A.	Pellegrini 140	4255-5854
Quilmes	Electrotel Quilmes	Moreno 538	4254-5291
Ramos Mejía	Electrotel Ramos Mejía	Belgrano 224	4656-0619
Ramos Mejía	Avesa SRL *	Bolívar 675	4654-6878/8003
Tigre	Pantronic	Alte Brown 529	4749-4040
San Isidro	Pantronic (Suc. S. Isidro)	Av. Centenario 899	4747-4040
San Miguel	Tecno San Miguel	Belgrano 999	4664-4131
Villa Ballester	Servotronic V. Ballester	José Hernández 3064	4767-2515

■ CATAMARCA

Catamarca	Omicon Centro de Serv.	San Martín 225	(03833) 451498
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■ CHACO

Resistencia	Freschi Jorge Oscar	Av. Hernandarias 431	(03722) 426030
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■ CHUBUT

Trelew	Fagtron Electrónica	Brasil 253	(02965) 427073
C. Rivadavia	C.A.S. SRL (Televic)	Alem 145	(0297) 4442629
Pto. Madryn	Center Electrónica	Sarmiento 588	(02965) 5458439
Esquel	Laboratorio Electrónico	Mitre 738	(02945) 451457

■ CÓRDOBA

Alta Gracia	Servicio Técnico Especializado	Velez Sarfield 19	(03547) 430848/15459936
Río Cuarto	Capaldi Abel	Paunero 832	(0358) 4623003
Córdoba Cap.	Electrotel Suc. Cba.	Avenida Colón 544	(0351) 4255999
Villa María	Grasso Electrónica **	Bv. Alvarez 541	(0353) 4521366
Río Tercero	Service Omega	Homero Manzi 149	(03571) 423330

■ BUENOS AIRES

Azul	Herlein Raúl Horacio	Av. 25 de Mayo 1227	(02281) 428719
Bahía Blanca	Neutron **	Soler 535	(0291) 4535329
Bahía Blanca	Citta Respuestos *	H. Yrigoyen 176	(0291) 4520881
Baradero	Juan F. Mazzarella	Araoz 847	(03329) 484321
Berisso	Electrónica Bander	Calle 158 107	(0221) 4614984
Bolívar	Total Audio	Av General Paz 125	(02245) 444300
Campana	Electricidad Krauter*	Lavalle 415	(03489) 432919
Coronel Suarez	Refrigeración Polar**	Lamadrid 1946	(02926) 424030
Dolores	Tauro Electrónica S.H.	Cramer 199	(02245) 444300
Junín	Junín Service**	Aisina 537	(02362) 442754
Junín	José Capuzio	Primera Junta 436	(02362) 424235
Junín	Morganti Walter*	Prz. Paz 433	(02362) 430670
La Plata	Highvisión	Calle 60 1033	(0221) 4520180
Luján	Electro Hogar	25 de Mayo 280	(02323) 438931
Mar de Ajó	Tauro Electrónica	Jorge Newbery 1434	(02257) 421750
Mar del Plata	Service Integral	Salta 3519	(0223) 476-0139
Mar del Plata	Central Service	Olazábal 2249	(0223) 4721639 ó 4729367

Importante:

(*) Solamente reparan pequeños aparatos domésticos, Ej. Afeitadora, Corta Cabello y Corta Barba, Depiladoras, Planchitas de pelo, Secadores de Pelo, Licuadoras, Mixer, Baflores, Catteras, Jugueras, Aspiradoras, Encacoradoras, Planchas.

(**) Solamente reparan Audio Video, Ej. Televisores, DVD, Home Theater, Micro Sistemas, MP3, MP4, Radio Grabadores, Auto Radios, Teléfonos.

Los Talleres que no tienen asterisco reparan ambas líneas de productos (pequeños aparatos domésticos y Audio y Video).

Villa María Vanguard Sist. Elect. México 421 (0353) 4532951
Córdoba Cap. Servelco SRL Pje.E. Marsilla 635 (0351) 4724008

■ CORRIENTES

Corrientes Los Magos San Martín 589 (03783) 466791

■ ENTRE RÍOS

Gualedayachú Ctro. Serv. Electrónicos Santiago Díaz 22 (03446) 426380
Paraná Laser Electrónica Pascual Palma 382 (0343) 4313056
Concordia El Taller San Martín 297 (0345) 4217069
Concep. del Uruguay LTV Service 9 de Julio 1442 (03442) 433026

■ FORMOSA

Formosa Vallejos Televisión Mitre 276 (03717) 435985

■ JUJUJY

Perico Electrónica PAL-COLOR Escolástico Zegada 47 (0388) 4911696
S. S. de Jujuy Total Service Jujuy Urdininea 233 (0388) 4310911

■ LA PAMPA

Santa Rosa Tecnocyl Centro de Serv. Av. Roca 179 (02954) 426602 / 426836
Gral. Pico Electrónica M.D. Calle 20 N° 370 (02302) 425047

■ LA RIOJA

La Rioja Telecolor España 450 (Barrio. Evita) (03822) 46-5354

■ MENDOZA

Mendoza Video Sistemas** Fray Luis Beltrán 1729 (Godoy Cruz) (0261) 4241111
Mendoza Araujo Service* Belgrano 1845 (Godoy Cruz) (0262) 4249930
San Rafael Diger Service Técnico Av. Mitre 277 (02627) 425620 (int. 11)

■ MISIONES

L. N. Alem Megatones C. de Obligado 247 (03754) 421236
Posadas Electrónica Cejo Av. López Torres 2623 (03752) 425921
El Dorado TeleSon Polonia 24 (03751) 423043 / 424014

■ NEUQUEN

S.M. Andes Zener Electrónica Elordi 614 (02972) 425155
Cutral-Có Servitran Di Paolo 570 (0299) 4961957
Neuquén Tevesur Fotheringham 110 (0299) 4430679
Neuquén Gatti Electrónica J.A. Roca 1124 (0299) 4434855/1489

■ RÍO NEGRO

Río Colorado A.V.C. Electrónica Saenz Peña 297 (02931) 432688
Villa Regina Servicio Técnico Fioretti Saavedra 125 (02941) 463297
Bariloche HC Electrónica** Av. 12 de Octubre 1575 (02944) 430219

■ SALTA

Salta Service Salta Alvarado 1066 (0387) 4317256

■ SAN JUAN

San Juan King Electrónica Mendoza 802 (Sur) (0264) 4228918
San Juan Techno Center Sarmiento Sur 154 (0264) 4276866

■ SAN LUIS

Villa Mercedes Electrónica Ciancia León Guillét 380 (02657) 423990
San Luis Electrónica Nico S.R.L. Junin 679 (02652) 428747

■ SANTA CRUZ

Río Gallegos Cosmos Video Mariano Moreno 46 (02966) 420456

■ SANTA FE

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Rosario Electrotel Rosario Maipú 828 (0341) 4217700
Santa Fe Litoral Service SRL 9 de Julio 2785 (0342) 4533563
Santo Tomé Electrónica S.XXI Falucho 2201 (0342) 4751528
Venado Tuerto Degiovanni Adalberto J. Av. H. Yrigoyen 1289 (03462) 424613
Rafaela Francesconi Rep. Elect. Bv. Roca 475 (03492) 422292/502292
Rosario SIP SRL España 470 (0341) 4252625 ó 4258180
Reconquista Sponton Alfredo Habeggerger 1516 (03482) 421523

■ SANTIAGO DEL ESTERO

Sgo. Del Estero Barchini Raúl Enrique Rivadavia 833 (0385) 4213872

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■ TUCUMÁN

S.M. Tucumán Edu-Mag** Marco Avellaneda 129 (0381) 4229078
S.M. Tucumán Breslauser Respuestos* San Lorenzo 15 (0381) 4215225

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Asunción Sirio SRL Iturbe 470 c/C. Cora (00595 21) 449753
Ciudad del Este Audio & Video P. de Patria c/Av. Caballero (00595 61) 502962
C. Oviedo Electrónica Total Gral. Eugenio A. Garay 148 (00595 21) 205466
Concepción Electrónica Concepción 14 de Mayo y Mzal. Estigarribia (00595 3312) 40960
Encarnación M's Service Store Villarrica 472 (00595 71) 202616
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P. Juan Caballero VICS Audio & Video J. de J. Martínez 498 Esp. C. Corá (595336) 272329
Villarrica Electrónica Nestor Rep. Argentina c/Itá Ybaté (0595541) 40803

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Montevideo Makirey S.A.** 18 de Julio 2302 (005982) 4081770
Montevideo Centr. de Reparaciones* Yí 1436 (005982) 9084914

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(**) Solamente reparan Audio Video, Ej. Televisores, DVD, Home Theater, Micro Sistemas, MP3, MP4, Radio Grabadores, Auto Radios, Teléfonos.

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