

PHILIPS

Televisions

5604 series

55PFL5604
50PFL5604

androidtv



Register your product and get support at

www.philips.com/support

EN **User manual**

FR **Manuel d'utilisation**

EN Check the model name of the rating label on the back of your TV to confirm if the TV is **55PFL5604/F7 A, 50PFL5604/F7 A** or **55PFL5604/F7, 50PFL5604/F7**:

- **55PFL5604/F7 A, 50PFL5604/F7 A**
- Please start to read from **next page**
- **55PFL5604/F7, 50PFL5604/F7**
- Please start to read from **p.41**

FR Vérifiez le nom du modèle de l'étiquette de classification à l'arrière de votre téléviseur pour confirmer si le téléviseur est **55PFL5604/F7 A, 50PFL5604/F7 A** ou **55PFL5604/F7, 50PFL5604/F7**.

- **55PFL5604/F7 A, 50PFL5604/F7 A**
- Veuillez commencer à lire à partir de la **page suivante**
- **55PFL5604/F7, 50PFL5604/F7**
- Veuillez commencer à lire à partir de la **p.41**

EN **For further assistance, please call the customer support in your country or check the Philips website for chat support.**

- To obtain assistance, contact Philips customer care center; In the U.S.A., Canada, Puerto Rico, or the U.S. Virgin Islands **1 866 309 5962**

FR **Pour plus de l'aide, s'il vous plaît contactez le service clientèle de votre pays ou consultez le site Web de Philips pour obtenir une assistance par chat.**

- Pour obtenir de l'aide, communiquez avec le centre de service à la clientèle Philips au; Dans le États-Unis, au Canada, à Puerto Rico ou aux Îles Vierges américaines; **1 866 309 5962**

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- Displays and illustrations may differ depending on the product you purchase.

Register online today at www.philips.com/support today to get the most benefits from your purchase.

Registering your model with Philips makes you eligible for all of the valuable benefits listed below, so don't miss out. Register online at www.philips.com/support to ensure:

*Product safety notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

Know these **safety** symbols



The caution marking is located on the rear or bottom of the cabinet.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

PHILIPS

For fastest support visit us online for chat and self service solutions at www.philips.com/support

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

CTA.tech/safety Consumer Technology Association™

Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

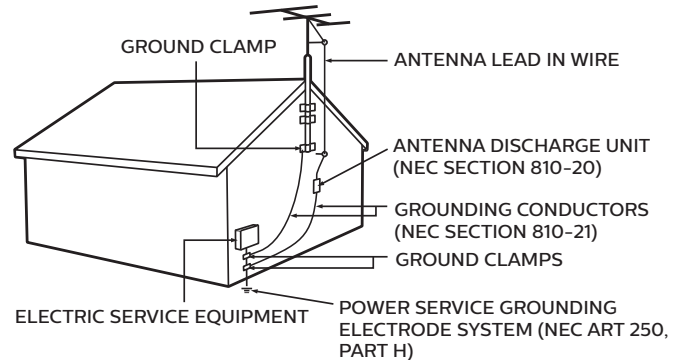


13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to the CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of antenna grounding as per NEC - National Electric Code



Wall mount bracket kit

	Brand	Model #	Screw dimension	VESA size
55PFL5604/F7 A, 50PFL5604/F7 A	SANUS	F80b	M6 x 1.378" (35 mm)	11.81" x 11.81" (300 x 300 mm)

- Your TV meets the VESA standard for wall mounting. Consult with your local dealer for a wall mount bracket which is compatible with your TV model.
- The recommended wall mount bracket kit (sold separately) allows the mounting of the TV on the wall.
- For detailed information on installing the wall mount, refer to the wall mount Instruction book.
- Funai Corporation is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV wall mount bracket or mount the TV onto the bracket.
- The wall mount bracket must be installed by experts.

Funai Corporation is not liable for these types of accidents or injuries noted below.

- If installed onto a ceiling or slanted wall, the TV and wall mount bracket may fall which could result in a severe injury.
- Do not use screws that are longer or shorter than their specified length. If screws too long are used this may cause mechanical or electrical damage inside the TV set. If screws too short are used this may cause the TV set to fall.
- Do not fasten the screws by excessive force. This may damage the product or cause the product to fall, leading to an injury.
- For safety reasons use 2 people to mount the TV onto a wall mounting bracket.
- Do not mount the TV onto the wall mounting bracket while your TV is plugged in or turned on. It may result in an electrical shock injury.

When installing the unit on the wall, allow this much space.

Top	: 11.8" (30 cm)
Left and right side	: 5.9" (15 cm)
Bottom	: 3.9" (10 cm)

1 Notice

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Funai Corporation reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this Owner's 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. Funai Corporation warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. Funai Corporation cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Funai Corporation will be adapted and published on the Funai Corporation support website as soon as possible.

Pixel characteristics

This LCD 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.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by service centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

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

Federal communications commission notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Declaration of conformity

Trade name : PHILIPS
 Responsible party : Funai Corporation, Inc.
 Model : 55PFL5604/F7 A, 50PFL5604/F7 A
 Address : 12489 Lakeland Road, Santa Fe Springs, CA 90670, USA*
 Telephone number : 1 866 309 5962

* This is not the mailing address for Open Source Software or Customer service.

Modifications

This apparatus may generate or use radio frequency energy. Changes or modifications to this apparatus may cause harmful interference.

Any modifications to the apparatus must be approved by Funai Corporation.

The user could lose the authority to operate this apparatus if an unauthorized change or modification is made.

Cables

Connections to this device must be made with shielded cables with metallic RFI / EMI connector hoods to maintain compliance with FCC Rules and regulations.

FCC statutory notice for wireless LAN adapter.

FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF)

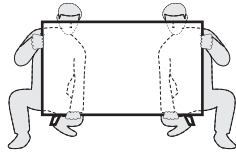
Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from your body.

Compliance with FCC requirement 15.407(c)

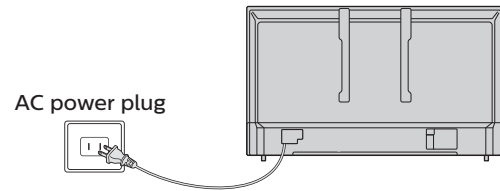
Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinues transmission in case of either absence of information to transmit or operational failure.

Positioning the TV

- Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
- Make sure to hold the upper and bottom frames of the unit firmly as illustrated.
- Install the unit in a horizontal and stable position.
- Do not install the unit in direct sunlight or in a place subject to dust or strong vibration.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- When installing this unit in a temperate environment, avoid a place with rapid temperature changes.
 - Operating temperature: 41°F (5°C) to 104°F (40°C)
- This unit should not be used in a tropical environment as it has not been evaluated under such conditions.
- No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.
- Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Do not insert the AC power cord into the power socket outlet before all the connections are made.
- Ensure that you always have easy access to the AC power cord and outlet to disconnect the TV from the AC outlet.
- Before you move the TV, disconnect attached cables to prevent damage to connectors, especially the TV tuner.
- Be sure to unplug the AC power plug from the AC outlet before moving or carrying the unit.
- When moving the TV and then setting it down, please be careful not to pinch the AC power cord under the unit.
- Do not place this unit in an area where it may be exposed to water, oil or grease such as:
 - near a bathtub, basin, kitchen sink, washing tub, swimming pool, kitchen exhaust fan, etc., or in a damp basement.



Press **⏻ (POWER)** to turn the unit on and go into standby mode. To completely turn off the unit, you must unplug the AC power plug from the AC power outlet. Disconnect the AC power plug to shut the unit off when trouble is found or not in use. The AC plug shall remain readily available.



Never use a gas duster on this TV. The gas trapped inside of this unit may cause ignition and explosion.

Environmental care



The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging.

For product recycling information, please visit - www.recycle.philips.com

End of life directives

Philips pays a lot of attention to produce environmental-friendly products in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

⚠ Batteries usage

CAUTION : Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: Batteries (battery pack or battery installed) should not be exposed to excessive heat such as sunshine, fire or the like.

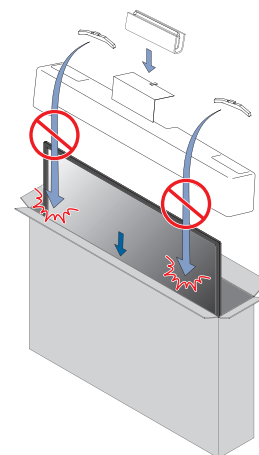
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, Li-ion, etc.) batteries.

Disposal of used batteries

The batteries included do not contain the heavy metals mercury and cadmium, however in certain localities, disposing batteries with household waste is not permitted. Please ensure you dispose of batteries according to local regulations.

Preparing to move / ship the unit

Please pack the unit properly by following the diagram on the carton.



- To avoid damage to the screen, do not pack the stand on the same side as the TV screen, refer to the illustration above.

Regulatory notices

WARNING: To prevent injury, this apparatus must be securely attached to the furniture / wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury / death.

WARNING: Never place a TV in an unstable location. A TV may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the TV.
- Only using furniture that can safely support the TV.
- Ensuring the TV is not overhanging the edge of the supporting furniture.
- Not placing the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Not placing the TV on cloth or other materials that may be located between the TV and supporting furniture.
- Educating the children about the dangers of climbing on furniture to reach the TV or its controls.

If your existing TV is being retained and relocated, the same considerations as above should be applied.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure that there is enough ventilation space (4" / 10 cm or more) around this unit.

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Google, Google Play, Android, YouTube, and related marks and logos are trademarks of Google LLC.

Use of key features of this TV requires consent to Google Terms of Service and Privacy Policy.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Features and specifications are subject to change without notice.

Network services, content, and the operating systems and software of this Product may be subject to individual terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information.

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

Some features may require an always-on broadband internet connection, firmware update and/or a minimum bandwidth. Internet services vary by location.

2 Getting started

Features

- The Google Assistant™ on Android TV™**
 Android TV brings a world of content to your biggest screen. With the Google Assistant built in, you can quickly access entertainment, get answers, and control devices around your home. Find the latest blockbuster, check the score of the big game, or dim the lights. Press the Google Assistant button on your remote to get started.
- Google Play**
 Android TV offers thousands of movies, shows, and games from Google Play, and your favorite apps. Discover your favorite content, apps, and games on Google Play.
- DTV / Analog TV / CATV**
 You can use your remote to select channels which are broadcast in digital format and conventional analog format. Also, cable and satellite subscribers can access their TV channels.
- Information display**
 You can display on the TV screen the title, contents (DTV only) and other information on the current program.
- Autoprogram**
 This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.
- Parental controls**
 This feature allows you to block children's access to inappropriate programs.
- Closed caption decoder**
 Built-in closed caption decoder displays text for closed caption supported programs.
- MTS / SAP tuner**
 Audio can be selected from the remote.
- Auto standby**
 If there is no input signal and no operation for 15 minutes, the unit will go into standby mode automatically.
- Sleep timer**
 You can set the unit to go into standby mode after a specific amount of time.
- Choices for on-screen language**
 Select your on-screen language: English, Spanish or French.
- Stereo sound function**
- Various adjustments for picture and sound**
 Customizes picture quality suitable for your room and sets your sound preference.
- HDMI control**
 HDMI control allows your other HDMI link devices to be controlled by the HDMI cable connected to your TV.
- HDMI input**
- HDMI-DVI input**
 If your video device has a DVI output jack, use an HDMI-DVI conversion cable to connect the unit.
- AV input**
 Audio and video input from an external device.
- Digital audio output**
- Headphone audio output**
 Headphone 3.5 mm stereo jack for personal listening.

Included accessories

Quick start guide



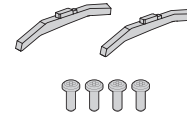
Safety instruction /
Limited warranty



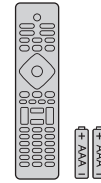
Caution sheet



TV base and screws *



Remote and Batteries
(AAA, 1.5 V x 2)



* Screws packed with this unit.

Model	Quantity	Size
55PFL5604/F7 A	4	M4 x 0.709 " (18 mm)
50PFL5604/F7 A		

Note(s)

- If you lose the screws, please purchase the above-mentioned phillips head screws at your local store.
- If you need to replace these accessories, please refer to the part name or No. with the illustrations and call our toll free customer support line found on the cover of this user manual.

When using a universal remote to operate this unit.

- Make sure the component code on your universal remote is set to our brand. Refer to the instruction book accompanying your remote for more details.
- We do not guarantee 100% interoperability with all universal remote.

Symbols used in this user manual

The following is the description for the symbols used in this user manual. Description refers to:

Digital TV operation

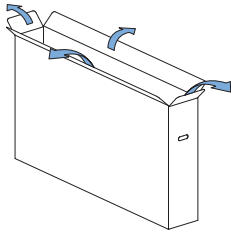
Cable / NTSC (Analog) TV operation

- If neither symbol appears, the operation is applicable to both.

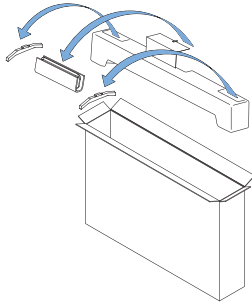
Unpacking

Cover a table top with a cloth or blanket to avoid damage to the TV screen. Hold both sides of the TV set to place on the table.

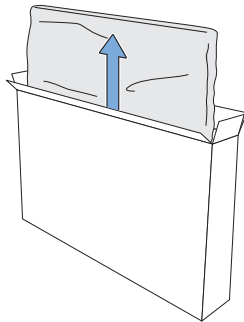
- 1 Open the top flaps of the box.



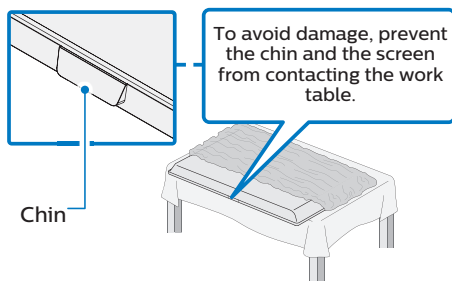
- 2 Remove all accessories.



- 3



- 4

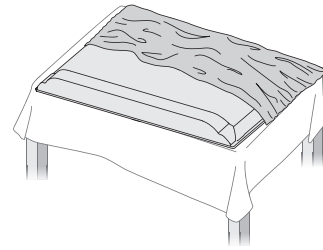


Note(s)

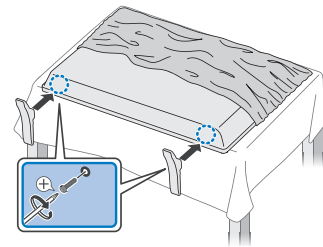
- Carefully lay the TV set, with the screen side down, on the table so as not to deform or damage chin at the bottom of the unit.

Installing the stands

- 1 Remove the tape on the bottom of the TV set and the plastic bag.



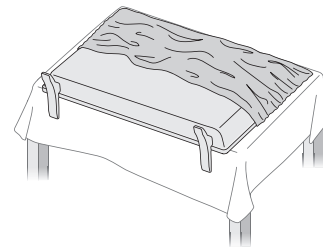
- 2 Fasten the stand to the TV with 4 screws.



Note(s)

- While fastening the screws, hold the stand to prevent it from falling.

- 3 Both stands should now be securely fastened.

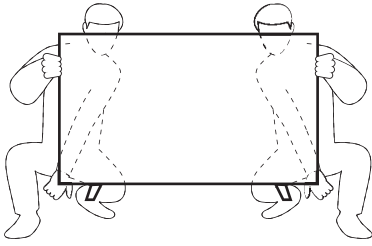


Note(s)

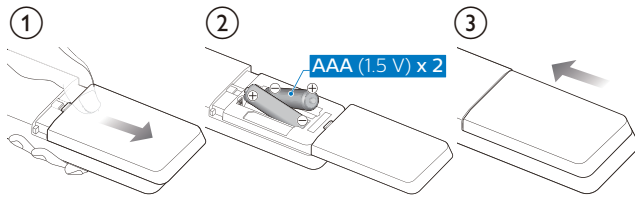
- A wide open space is recommended for assembly.
- A Phillips-head screwdriver is required to fasten the stands to the TV set.
- When attaching the stand, ensure that all screws are tightly fastened. If the stand is not properly attached, it could cause the unit to fall, resulting in injuries as well as damage to the unit.
- To remove the stand from this unit, unscrew the phillips-head screws by reversing the procedure. Be careful not to drop the stand when you remove it.

Lifting the TV set

Carefully lift the TV set as shown in the illustration and place it onto a stable, level surface.



Installing the Batteries



- 1 Open the battery cover by firmly sliding down.
- 2 Insert 2 AAA (1.5 V) batteries matching the polarity indicated inside battery compartment of the remote.
- 3 Slide the cover back into position.

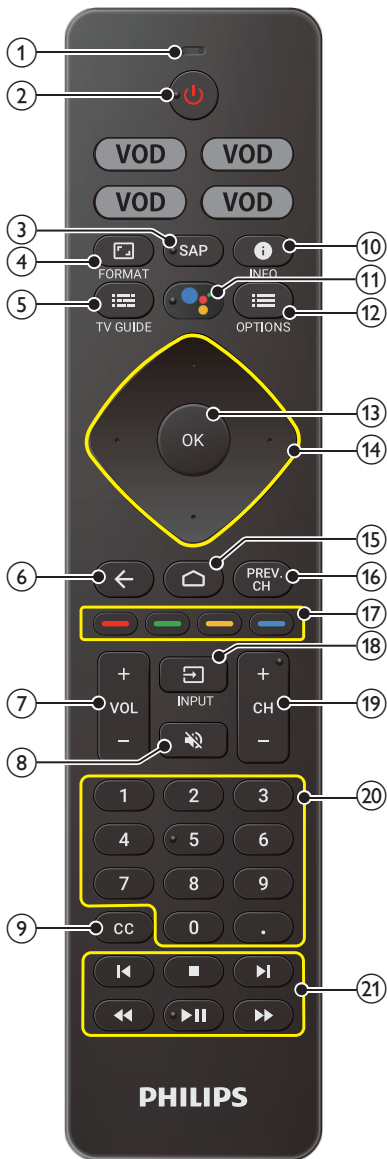
! Caution(s)

- For remote that have the battery cover on the front, please take care to slide the cover down BEFORE lifting it off to prevent accidentally breaking the tabs that hold it in place.

≡ Note(s)

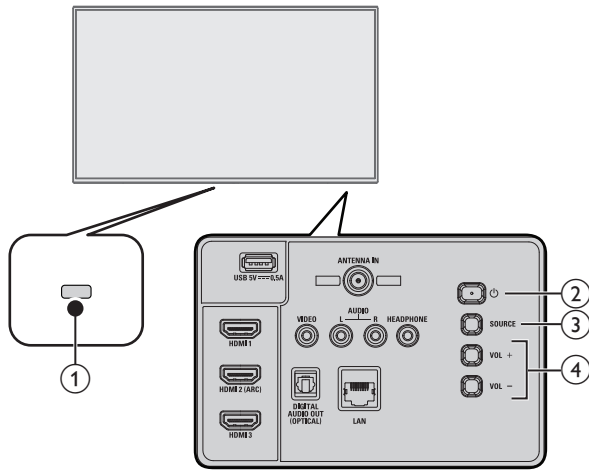
- Remove the batteries if not using the remote for an extended period of time.

Remote



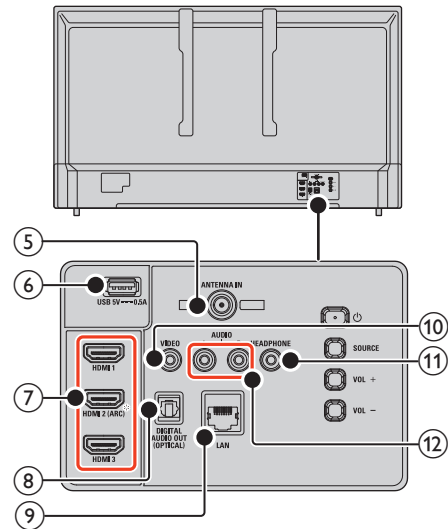
- ① **Microphone**
- ② **⏻ (POWER)**
Turns the TV on and off of standby.
- ③ **SAP**
Selects audio mode (MONO / STEREO / SAP) / audio language.
- ④ **🖼️ (FORMAT)**
Adjusts the picture size on the TV screen.
- ⑤ **📺 (TV GUIDE)**
Access to the Electronic Program Guide (EPG). It allows you to find channels and content easily.
- ⑥ **⬅️ (BACK)**
Returns to the previous menu screen.
- ⑦ **VOL + / -**
Adjusts the volume.
- ⑧ **🔇 (MUTE)**
Turns the sound on and off.
- ⑨ **CC**
Selects closed caption settings.
- ⑩ **📘 (INFO)**
Displays input and resolution information.
- ⑪ **The Google Assistant**
Press the Assistant button on your remote to talk to your Google Assistant.
- ⑫ **☰ (OPTIONS)**
Displays a list of menu options applicable to the active screen.
- ⑬ **OK**
Press to decide the command of setting when the Home menu is displayed.
- ⑭ **▲▼◀▶ (NAVIGATION buttons)**
Moves the cursor, selects the on-screen menu items.
- ⑮ **🏠 (HOME)**
Access to your apps, Live TV, input devices, settings, and the Google Play Store.
- ⑯ **PREV.CH**
Direct access to the Live TV channels. Displays the last selected terminal or channel.
- ⑰ **COLOR buttons**
Works as direct access to user specified net apps.
- ⑱ **📺 (INPUT)**
Change input source. Select and change access to the attached devices such as Blu-ray player, gaming consoles, or cable box.
- ⑲ **CH + / -**
Selects a channel.
- ⑳ **0 - 9 (NUMBER buttons)**
Used to enter a channel / program number.
• **(DOT)** : Use with **0-9** to select digital channels.
For example, to enter 2.1, press
- ㉑ **EasyLink buttons**
 - ⏮️ / ⏭️ : Skips backward or forward chapters, titles or tracks on a disc.
 - : Stops the disc playback.
 - ⏪ / ⏩ : Searches backward or forward through the disc.
 - ▶️ || : Starts, pauses or resumes playback.

Control panel



- ① **Remote sensor**
Receives IR signal from remote.
- ② **⏻ (POWER)**
Turns the TV on or switches the TV into standby mode.
Turns the TV on and off of standby.
- ③ **SOURCE**
Selects connected devices.
- ④ **VOL + / -**
Adjusts the volume.
VOL + : Volume up
VOL - : Volume down

Terminals



- ⑤ **75 ohm Cable / Antenna connection**
Signal input from an antenna or Cable / Satellite set-top boxes.
- ⑥ **USB terminal**
Data input from USB memory stick only.
- ⑦ **HDMI input jack(s)**
Digital audio and video input from high definition digital devices such as DVD / Blu-ray Disc™ players, Soundbar / cable / satellite set-top boxes, PC's, etc.
- HDMI-DVI / Analog audio (L/R) jacks signal
- Composite video / Analog audio (L/R) jacks signal
- PC connection / Analog audio (L/R) jacks signal with stereo mini 3.5 mm plug audio cable on PC
* For HDMI 2 only : In addition to normal HDMI functionality, it outputs TV audio to an HDMI-ARC compliant device, such as a soundbar and home theater system.
- ⑧ **Digital audio output (Optical) jack**
Digital audio (SPDIF) output to home theaters and other digital audio systems.
- ⑨ **Ethernet port**
For internet connection using an Ethernet cable with an RJ-45 connector.
- ⑩ **Composite video (VIDEO) input jack**
Connect composite analog video signal.
- ⑪ **Headphone audio output jack**
Headphone 3.5 mm stereo jack for personal listening.
- ⑫ **Analog audio (L/R) input jacks**
Connect analog audio signals from;
- HDMI-DVI / Analog audio (L/R) jacks signal
- Composite video / Analog audio (L/R) jacks signal
- PC connection / Analog audio (L/R) jacks signal with stereo mini 3.5 mm plug audio cable on PC

Note(s)

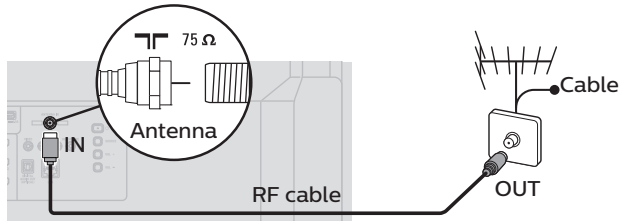
- This TV has a USB port which is designed for connecting peripheral devices, such as a keyboard or mouse. While you may find that a particular keyboard or mouse works to some extent, we cannot guarantee full functionality. You will not damage the TV in any way by trying various keyboards or mice, but the performance of that device may be limited.

Connecting antenna or cable / satellite / IPTV set-top box

Be sure your antenna or another device is connected properly before plugging in the AC power cord.

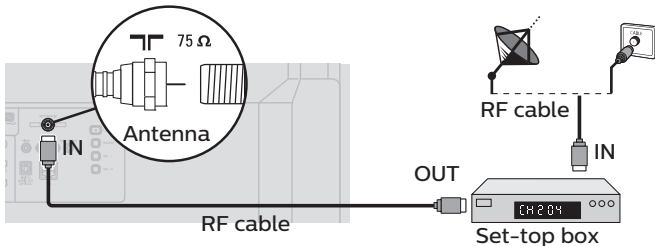
If connecting to an antenna through an RF cable

Any DTV programs that are broadcast in your area can be received for free through an antenna connection.




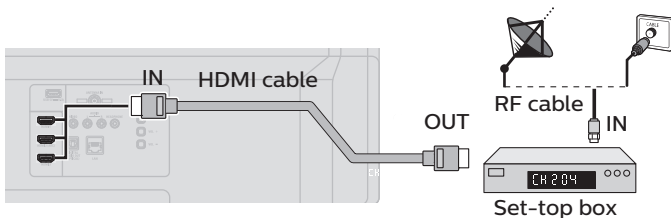
If connecting cable / satellite / IPTV set-top box using an RF cable

If the TV is connected to a cable / satellite set-top box via a coaxial connection, set the TV to channel 3/4 or the channel specified by the service provider.



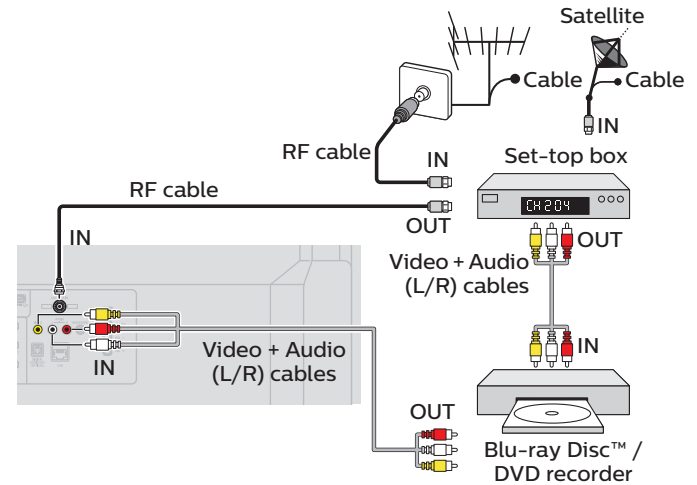
If connecting cable / satellite / IPTV set-top box using an HDMI cable

If the TV is connected to a cable / satellite set-top box via an HDMI cable, make sure you select the correct source by using  (INPUT).



Connecting a cable / satellite / IPTV set-top box, Blu-ray Disc™ / DVD recorder via composite connectors and analog audio

Do not place your recorder too close to the screen because some recorders can be susceptible to harmful interference from the TV.



Note(s)

- If you have any question about the DTV's antenna, visit www.antennaweb.org for further information.
- Depending on your antenna system, you may need different types of combiners (mixers) or separators (splitters) for HDTV signal. The minimum RF bandpass on these devices is 2,000 MHz or 2 GHz.
- For your safety and to avoid damage to this unit, please unplug the RF coaxial cable from the antenna input jack before moving the unit.
- If you did use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than a set-top box or inside antenna.
- To turn on your reception source easily between antenna and cable, install an antenna selector.
- If you are not receiving a signal from your cable service, contact the cable provider.

Plugging in the AC power cord

Make sure that the AC power cord must be plugged to an AC outlet after all the necessary connections are made.

! Caution(s)

- Connect the analog audio signal cables from the external device to the analog audio L/R input jacks.
- If you have an amplifier, connect the HDMI cable to the HDMI input via your amplifier.

Note(s)

- Each time you plug in the AC power cord, no operations will be performed for several seconds. This is not a malfunction.

No included cables are used with these connections:

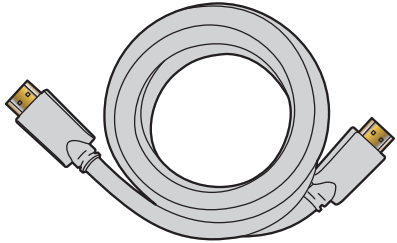
- Please purchase the necessary cables at your local store.

Before you connect the AC power cord:

Be sure other devices are connected properly before plugging in the AC power cord.

Selecting your connection quality

HDMI - Highest quality

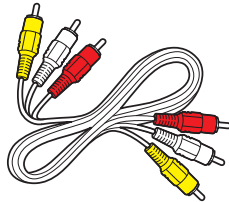


Supports high-definition digital signals and gives highest picture and sound quality. Video and audio signals are combined in one cable. You must use HDMI for full high-definition video and to enable HDMI control (HDMI CEC).

Note(s)

- Philips HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of digital rights management that protects high-definition content in Blu-ray Disc™ or DVDs.
- The HDMI-ARC connector on the TV features HDMI-ARC functionality. This allows output of TV audio to an HDMI-ARC-compliant device.

Composite - Basic quality

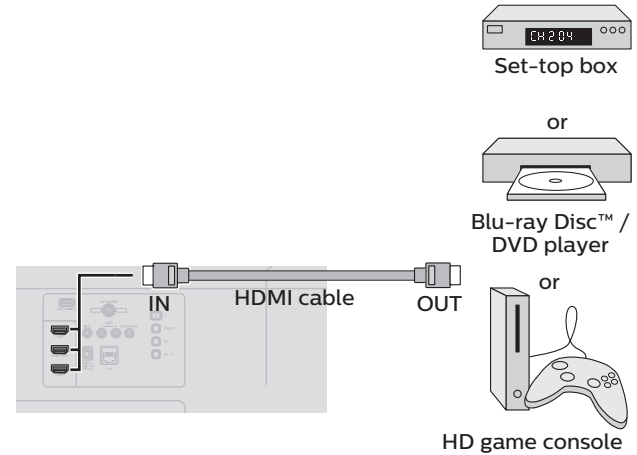


For analog connections. Composite video / Audio analog cable usually combine a yellow video cable with red / white audio (L/R) cables.

Connecting your devices

HDMI digital connection

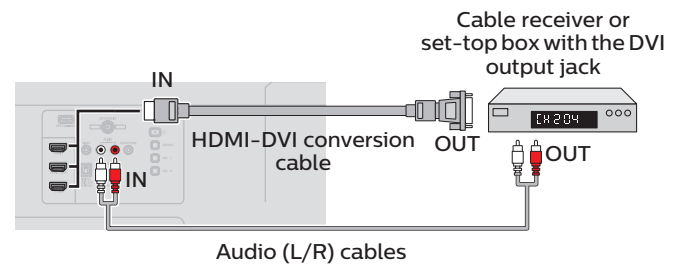
HDMI connection offers the highest picture quality. HDMI (High-Definition Multimedia Interface) transports high-definition digital video and multi-channel digital audio through a single cable.

**Note(s)**

- If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the **HDMI EDID Version**. (Refer to **HDMI EDID Version** → p. 15)
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i / 480p / 720p / 1080i, 1080p, 2160p 24/30/60 Hz of video signals, 32 kHz / 44.1 kHz and 48 kHz of audio signals.
- This unit accepts LPCM, AC-3, DD+ audio signal.
- This unit accepts only signals in compliance with CTA-861-G.

HDMI-DVI connection

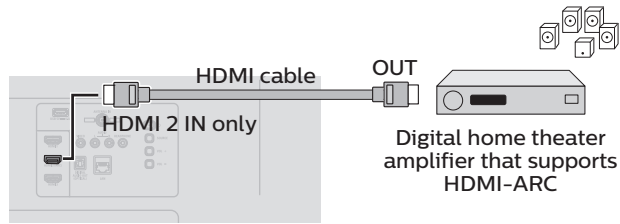
This unit can be connected to a device that has a DVI terminal. Use an HDMI-DVI conversion cable for this connection and it requires audio cable for analog audio signal as well.

**Note(s)**

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480p, 720p, 1080p and 2160p video signals. When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.
- HDMI-DVI connection requires separate audio connections as well and the audio signals are output as analog (L/R) audio.
- DVI does not display 480i image which is not in compliance with CTA-861-G.

HDMI-ARC connection

HDMI-ARC allows you to use HDMI control to output TV audio directly to a connected audio device, without the need for an additional digital audio cable.



Note(s)

- The HDMI 2 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to an HDMI home theater system.
- Be sure that the device is HDMI CEC and ARC compliant and that the TV is connected to the device using an HDMI cable attached to HDMI-ARC connectors.

HDMI EDID Version

If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the HDMI mode following the instructions below.

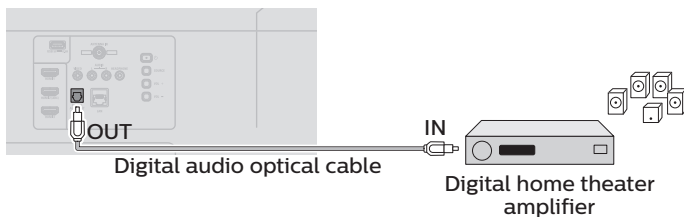
- 1 Press **INPUT** to switch input device list.
- 2 Press **OPTIONS** on your remote and navigate to **Settings** and press **OK**.
- 3 Select **Device Preferences** and press **OK**.
- 4 Select **Inputs** and press **OK**.
- 5 Select **HDMI EDID Version** and press **OK**.

Note(s)

- **EDID 1.4** is used for legacy devices that can output in 2K or 4K @30 Hz.
EDID 2.0 is used for modern devices that can output 4K @ 60Hz and 4K with HDR 10.

Digital audio output connection

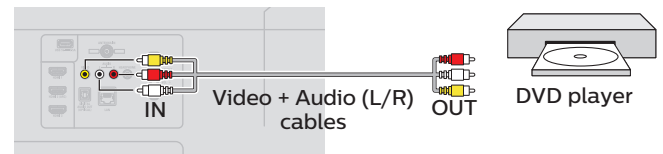
If you connect this unit to an external digital audio device, you can enjoy multi-channel audio like 5.1ch digital broadcasting sound. Use a digital audio optical cable to connect the unit to external digital audio devices.



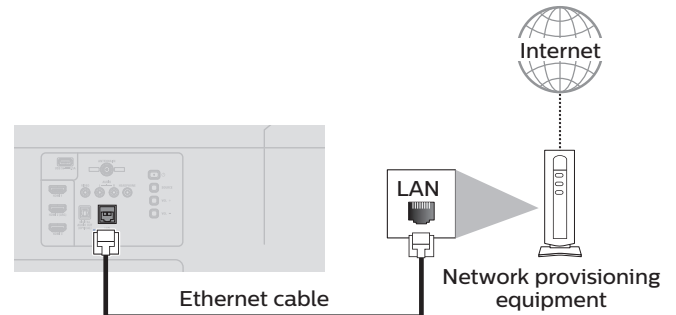
Composite analog video connection

Composite analog video connection offers standard picture quality for video devices connected to the unit.

If you connect to the unit's composite video (VIDEO) input jack, connect audio cables to the audio (L/R) input jacks. When the audio is monaural, then only connect to the audio L input jack.



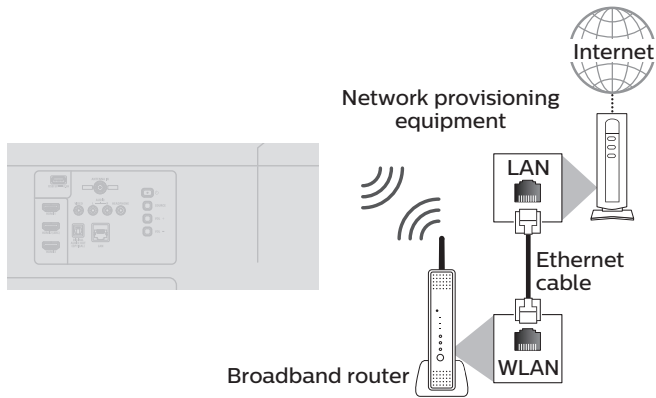
Connecting the TV to the internet using an Ethernet cable



Note(s)

- Please purchase shielded Ethernet cables at your local store and use them when you connect to network equipment.
- After connecting an Ethernet cable, set up necessary network settings.
Network & Internet → p. 22
- Do not insert any cable other than an Ethernet cable to the Ethernet port to avoid damaging the unit.
- If your telecommunications equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your telecommunications equipment (modem, etc.) has broadband router functions but there is no vacant port, then add a hub.
- For a broadband router, use a router which supports 10BASE-T / 100BASE-TX.
- Do not connect your PC directly to the Ethernet port of this unit.

Connecting the TV to the internet using a wireless LAN



Note(s)

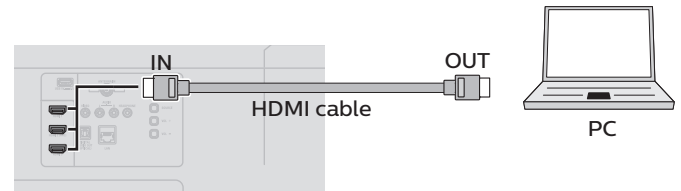
- After you make the wireless connection, set up the necessary network settings. **Network & Internet** → p. 22
- Use a wireless LAN Access Point (AP) (e.g. broadband wireless router) which supports IEEE 802.11 a/b/g/n/ac. (n is recommended for stable operation of the wireless network.)
- This unit does not support Ad-hoc mode.
- Other radio devices or obstacles may cause interference to the wireless network connection.

PC connection

PC content can also be sent to the TV via any Google Chromecast compatible application. See https://store.google.com/product/chromecast_apps for details.

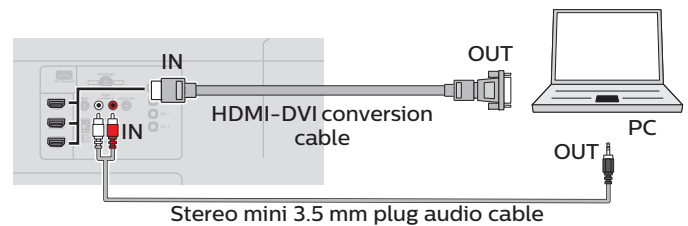
HDMI connection

This unit can be connected to your PC that has an HDMI terminal. Use an HDMI cable for this digital connection.



HDMI-DVI connection

This unit can be connected to your PC that has a DVI terminal. Use an HDMI-DVI conversion cable for this video digital connection and it requires stereo mini 3.5 mm plug audio cable for analog audio signal as well.



The following PC-input video signals can be displayed:

Format	Resolution	Refresh rate
VGA	640 x 480	60 Hz
SVGA	800 x 600	
XGA	1,024 x 768	
	1,280 x 768	
WXGA	1,360 x 768	24/30/60 Hz
	1,920 x 1,080	
FHD	3,840 x 2,160*	
	4,096 x 2,160*	
UHD		

Other formats or non-standard signals will not be displayed correctly.

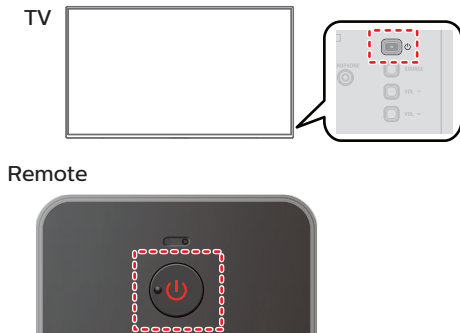
* When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.

Note(s)

- Please purchase a HDMI-DVI conversion cable that has a ferrite core.
- The following operations may reduce noise.
 - Attach a ferrite core to the AC power cord of your PC.
 - Unplug the AC power cord and use the built-in battery of your portable / laptop PC.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480p, 720p, 1080p and 2160p video signals only when using the HDMI connection and HDMI-DVI connection. When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.
- HDMI-DVI connection requires separate audio connections as well and the audio signals are output as analog (L/R) audio.
- DVI does not display 480i image which is not in compliance with CTA-861-G.

3 Use your TV

Switching on your TV and putting it in standby mode



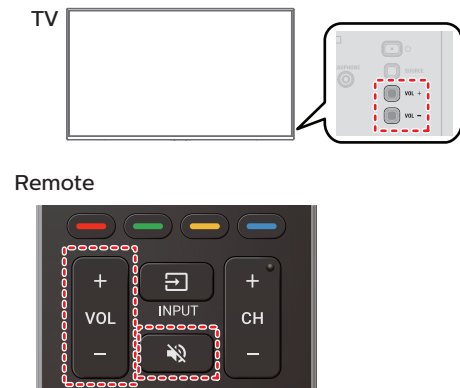
Turns the TV on and off of standby.

- Press **⏻ (POWER)** on the TV or the remote, then TV will go to suspend standby.
- Press and hold **⏻ (POWER)** on the TV or the remote, then TV will go to standby mode completely.

Note(s)

- Energy consumption contributes to air and water pollution. When the AC power cord is plugged in, your TV consumes energy with a very low standby power consumption.

Adjusting volume



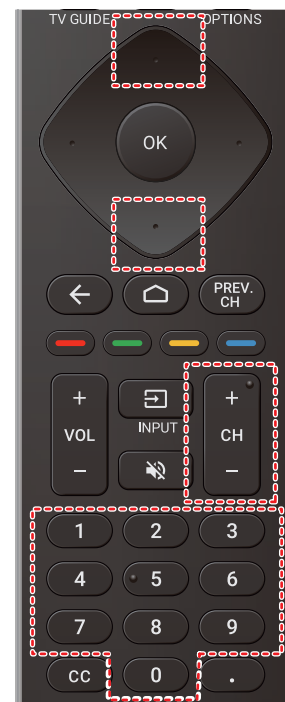
To decrease or increase volume

- Press **VOL + / -** on the TV or the remote.
VOL + : Volume up
VOL - : Volume down

To mute or unmute sound

- Press **🔇 (MUTE)** on the remote to mute the sound.
- Press **🔇 (MUTE)** again or **VOL + / -** to recover the original sound.

Switching channels



To change channels, you can do any of the following:

- Press **CH + / -*** on the remote.
- Use **the NUMBER buttons*** on the remote.
- Press **▲▼** on the remote for digital channels only.

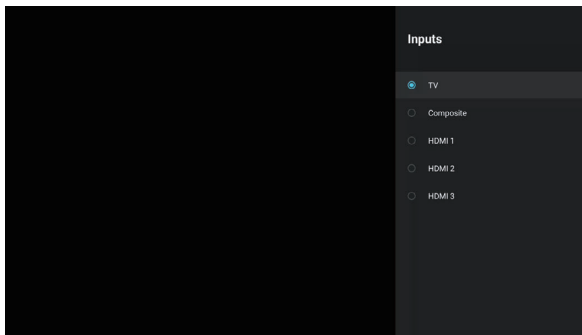
Watching channels from an external device

Switching each input mode can easily switch with the remote between TV and external devices when they are connected to the unit.

- 1 Turn on the set-top box or the connected device.



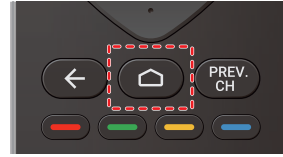
- 1 Press **INPUT** and use **▲▼** to select the set-top box or the connected device and wait a few seconds till the picture appears.



- 2 Use the remote of the set-top box or the connected device to select channels.

Access the Home menu

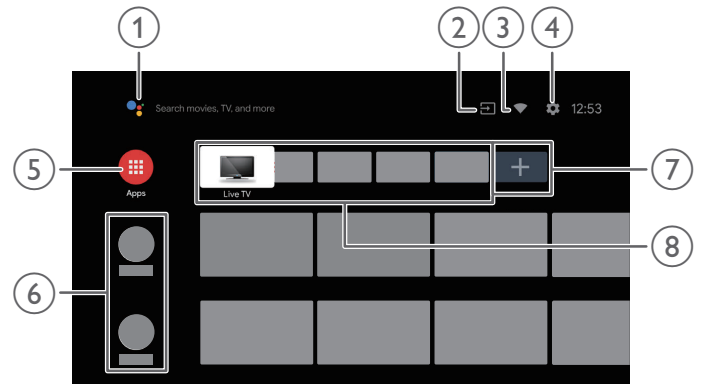
- 1 Press **HOME**.



Guide to Home menu

From the Android TV home screen, you can easily access movies, TV shows, music, apps, input devices, settings, and more.

To go back to the home screen at any time, press **HOME** on your remote.

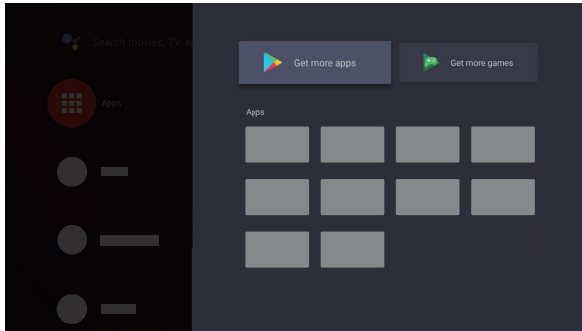


- 1 **The Google Assistant** : With the Google Assistant, quickly access entertainment, control smart devices, get answers on screen, and more using your voice.
- 2 **Input** : Toggle inputs between your favorite source devices.
- 3 **Network condition** : Display the network status and open network settings if selected.
- 4 **Settings** : Configure your television settings and connect to wireless devices.
- 5 **Apps** : Apps gallery
You must sign in with a Google account to visit and download apps from the Google Play store.
- 6 **How to rearrange channels** : Within the row, you want to rearrange, press **◀** on your remote.
To rearrange channels, Select arrow (**▲▼**) icon, and press **OK**. Use **▲▼** to move up or down. Press **OK**.
To delete channels, Select minus (**-**) icon, and press **OK**.
- 7 **Install additional apps** : Select the "+" and click on the Google Play Store to expand your entertainment library.
- 8 **How to move or delete applications** : Select the application and long press **OK** on your remote.
To move, Select **Move** in the list, and press **OK**. Use **◀▶** to move left or right. Press **OK**.
To delete, Select **Remove from favorites** in the list, and press **OK**.

Apps

You can download the apps.

- 1 Press **HOME** and use **▲▼◀▶** to select **Apps**, then press **OK**.



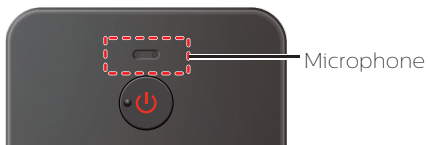
- 2 Select "Get more apps" to open the Google Play Store apps.
- 3 Search for the app or type of app you want to install.
- 4 Select the app.
- 5 Select install.

The Google Assistant



Press **the Google Assistant** to launch the Google Assistant . You can operate what you want to do and what you want to ask by hands-free.

Microphone

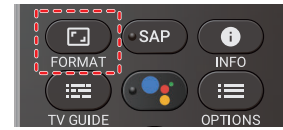


- 1 Activating the Google Assistant on the home screen will launch a Google Query.
 - Activating the Google Assistant within an app will allow you to search and find information only related to a specific app.
- 2 Speak into the microphone located on the top of your remote. Speech examples may be displayed depending on your model. Refer to the Google web site (<https://support.google.com/assistant/>) for more information on what to ask.

Picture format

Display modes can be selected when your TV receives a 16:9 or 4:3 video signal.

Press **FORMAT** repeatedly to switch the TV aspect ratio.



Automatic	Displays a picture at maker recommended picture format setting.
Full	Displays a picture that is stretched out of proportion to fill the screen.
Unscaled	Displays a picture at its original size.
4:3	Displays a 4:3 picture at its original size. Sidebars appear on both edges of the screen.
Movie expand	Displays a American vista 16:9 picture at its original size.

TV screen information

You can display the currently selected channel or other information.

- 1 Press **INFO**.



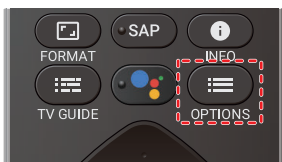
Note(s)

- The information display will automatically disappear in 5 seconds. This information is for cable/antenna broadcasts only. Information for streaming apps will vary on the app.

Using options menu

You can access to some TV settings directly by using **≡ (OPTIONS)**.

- 1 Press **≡ (OPTIONS)** to display options menu, then press **OK**.



- 2 Use **▲▼◀▶** to select a desired setting, then press **OK**.

Picture style

Following settings can be configured.

- User
- Standard
- Vivid
- Sports
- Movie
- Game
- Energy saving

Picture ➞ p. 28

Picture format

The items displayed depending on the input terminal and the reception resolution are different.

- Automatic
- Full
- Unscaled
- 4:3
- Movie expand

Picture ➞ p. 28

Closed captions

This item displays only when captions are on the streaming.

- Off
- On
- CC w/ mute

Multi audio

- English, Espanol, Francais

This item is displayed when DTV broadcasting is received.

- Mono
- Stereo
- SAP

This item is displayed when ATV broadcasting is received.

Speakers

- TV Speakers
- External Audio System

Power

Sleep time

- Off
- 10 Minutes
- 20 Minutes
- 30 Minutes
- 40 Minutes
- 50 Minutes
- 60 Minutes
- 90 Minutes
- 120 Minutes

Picture off

Select **Picture off**, the TV screen is switched off, to switch the TV screen back on, press any key on the remote.

No Signal Auto Power Off

- Off
- 5 Minutes
- 10 Minutes
- 15 Minutes
- 30 Minutes
- 60 Minutes

Settings

See **Getting more from your TV** ➞ p. 21

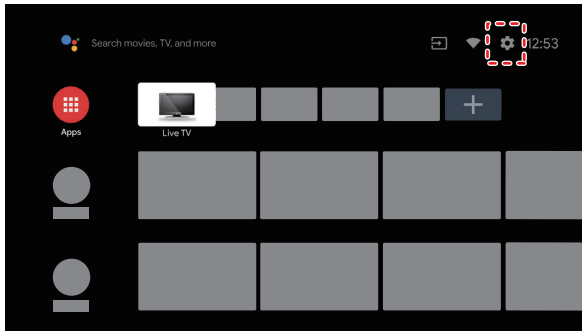
4 Getting more from your TV

This section describes the overview of the **Settings** menu displayed when you press **HOME** and use **▲▼◀▶** to Select **Settings**. The **Settings** menu consists of the function setting items below.

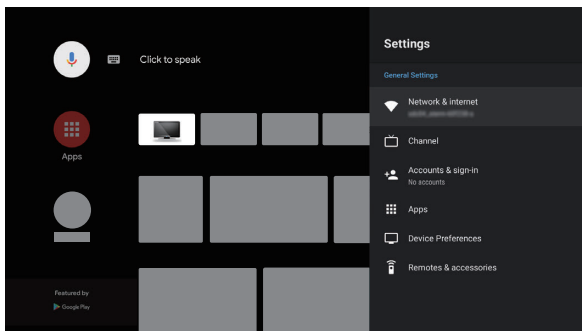
- 1 Press **HOME** to display the Home menu.



- 2 Use **▲▼◀▶** to select **Settings**, then press **OK**.



- 3 Use **▲▼◀▶** to select the desired menu and an item, then press **OK**.



Network & Internet → p. 22

Live TV/Antenna → p. 22

Channel → p. 23

Accounts & sign-in → p. 25

Apps → p. 25

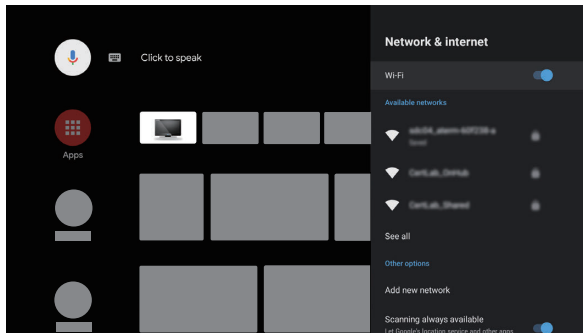
Device Preferences → p. 26

Remote & accessories → p. 32

Network & Internet

Setup network connection settings in order to use apps or network upgrade functions.

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Network & Internet**, then press **OK**.



Wi-Fi

On	Wireless. If you use a wireless LAN Access Point (AP), select On to connect to the internet.
Off	If you do not use a wireless LAN Access Point (AP), select Off .

Available networks

Wi-Fi router list

Other options

Add new network

Add new network: You can add wireless network.

Scanning always available

Let Google's location service and other apps scan for networks, even when Wi-Fi is off.

Wow

wake on wireless network

Wol

wake on LAN

Ethernet

Not connected / Connected

Display the connection status of the wired LAN.

Proxy settings

Set Proxy manually.

IP settings

Configure the IP setting for your network connection.

Live TV/Antenna

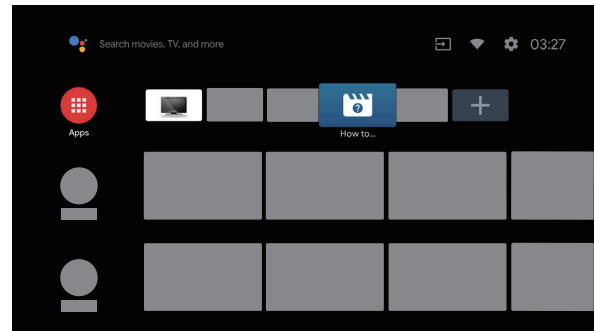
The Live TV channels feature on Android TV loads television shows, sports, news, and more from your participating TV apps or Antenna / OTA TV tuner so you can watch them all in one place.

To select channels, use **CH + / -** on your remote. For installation of TV channels using a set-top box, go to **Connecting your devices** → p. 14.

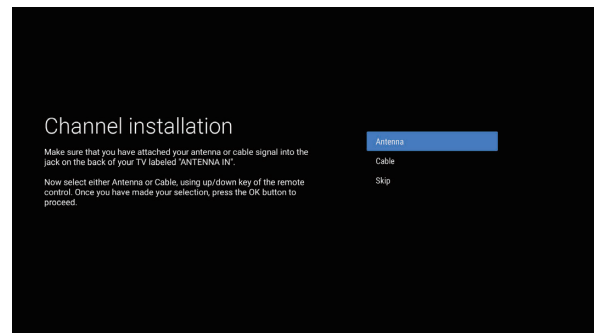
Add channels

To add for the first time or additional channels, please follow the steps below:

- 1 On the Home menu, go to the **Apps** row and select **How to...**



- 2 Select **Live TV** to open channel installation page. Once open, select **Setup** and press **OK**.
- 3 Select your signal type **Antenna / Cable** to start the channel installation.



Channel list

Press **OK** while viewing Live TV to open channel list. Based on the type of channels installed, select with the yellow color key **Broadcast** (conventional TV channels) or **Network** (internet TV channels).

Program guide

To view the latest TV program schedule, press **≡(TV GUIDE)** on your remote.

Note(s)

- Live TV feature is only compatible with antenna and select cable broadcasting. To access your cable box or other source inputs, you must press **INPUT** on your remote.

Channel

Be sure the RF cable is correctly connected to this unit and you are registered with your cable TV provider when you install cable channels.

- 1 When watching Live TV, then press **≡ (OPTIONS)**.
- 2 Use **▲▼◀▶** to select **Settings**, then press **OK**.
- 3 Use **▲▼◀▶** to select **Channel**, then press **OK**.

Customize Channel List

Skip All / Unskip All

Channel Installation Mode

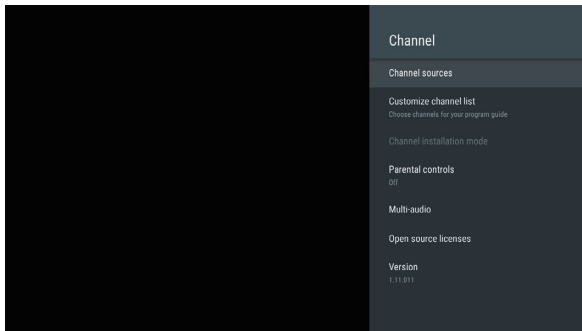
Antenna

Cable

Parental Controls

You can restrict your children from watching certain programs or channels, by setting parental controls using a rating lock.

- 1 Use **▲▼** to select **Parental Controls**, then press **OK**.



- 2 Use **▲▼** to enter the 4-digit numbers for your PIN code.
 - Default setting of PIN is "1234".
 - When the PIN code is correct, **Parental Controls** menu is displayed.
 See the following description for setting each item.

Note(s)

- Default setting of PIN is "1234". If you have forgotten the current 4-digit PIN code, you can reset the code by performing Factory data reset.
- Program Restrictions is displayed only when the last selected input is not HDMI.
- When you select the higher rating and set it to **🔒**, the lower ratings will be blocked automatically.
- **RRT5 setting** will be available when the unit receives a digital broadcast using the new rating system.
- To block any inappropriate programs, set your limits in **United States**, **United States (Film ratings)** and **RRT5 setting**.
- For the United States, the unit may download the region ratings lock table, if required.
- The Canadian rating systems on this unit are based on CEA-766-A and CRTC policy.

Setting TV and film ratings

Film ratings lock is the rating system created by MPAA. TV ratings lock has controlled access to individual programs based on their age ratings and content rating.

- 3 Use **▲▼** to select **Program Restrictions**, then press **OK**.
- 4 Use **▲▼** to select **Ratings**, then press **OK** repeatedly to switch between block and view.

United States (Film ratings)	United States	Description
–	TV-Y	Appropriate for all children
–	TV-Y7	Appropriate for all children 7 and older
G	TV-G	General audience
PG	TV-PG	Parental guidance suggested
PG-13	–	Unsuitable for children under 13
–	TV-14	Unsuitable for children under 14
R	–	Restricted under 17 requires accompanying parent or adult guardian
NC-17	–	No one under 17 admitted
X	TV-MA	Mature audience only

Rating types and restriction levels

High restrictions
Content suitable for children
Medium restrictions
Content suitable for older children
Low restrictions
Content suitable for teens



United States	High	Medium	Low
TV-Y			
TV-Y7	✓		
TV-G			
TV-PG	✓	✓	
TV-14	✓	✓	
TV-MA	✓	✓	✓

United States (Film ratings)	High	Medium	Low
G			
PG			
PG-13	✓	✓	
R	✓	✓	
NC-17	✓	✓	
X	✓	✓	✓

Canadian English or Canadian French ratings

You can select the rating for Canadian English or Canadian French broadcasting.

Program Restrictions > Rating Systems and check the Canada and Canada (French) checkboxes from the list. Otherwise Canada's rating will not be effective.

- 3 Use ▲▼ to select **Canada** or **Canada (French)**, then press **OK**.
- 4 Use ▲▼ to select the desired rating, then press **OK** repeatedly to switch between block and view.
 -  indicates that the rating is locked (Blocked).
 -  indicates that the rating is not locked (Viewable).

Canada	Canada (French)	Description
E		Exempt program
C	–	For all children
C8+	–	For all children 8 and older
G		General audience
–	8 ans+	Unsuitable for ages under 8
PG	–	Parental guidance suggested
–	13 ans+	Unsuitable for ages under 13
14+	–	Unsuitable for ages under 14
–	16 ans+	Unsuitable for ages under 16
18+	18 ans+	Adult audience only

Note(s)

- The V-Chip can block non rated programs as per "CEA-608-E sec. L.3". If the option to block **E** programs are used in **United States (Film ratings), United States, Canada** or **Canada (French)** accordingly "unusual results may occur and the unit may not receive emergency bulletins or other types of programming": / Emergency bulletins (Such as EAS messages, weather warnings and others) / Locally originated programming / News / Political / Public service announcements / Religious / Sports / Weather.

Inputs Blocked

You can restrict your children from watching certain inputs.
TV / Composite / HDMI 1 / HDMI 2 / HDMI 3

Change PIN

- 1 Use ▲▼ to select **Change PIN**, then press **OK**.
- 2 Use ▲▼ to enter the current 4-digit PIN code.
- 3 Use ▲▼ to enter the new 4-digit PIN code.
 - Enter PIN code again to confirm.

Caution(s)

- If you have forgotten the current 4-digit PIN code, you can reset the code by performing **Factory data reset**. (Refer to **Reset** ➔ p. 32)
- **Factory data reset** will erase all data from your TV's internal storage, including your Google account, system and app data and settings, and downloaded apps.

Note(s)

- Make sure new PIN code and confirm PIN code must be exactly the same. If they are different, the space is cleared for reentering.

Multi Audio

You can select the audio language while your TV is receiving the digital broadcasting.

- 1 Use ▲▼ to select **Multi Audio**, then press **OK**.

Multi Audio	To select the language according to your preference. (It differs depending on the program.)
--------------------	--

Open source licenses

Version

Accounts & sign-in

Register your Google Account.
You can use multiple Google Accounts on your TV.

Unleash your television's true potential. With a Google® account you can effortlessly expand your entertainment library via the Google Play Store and Google Play app and also keep apps up-to-date. While you can enjoy this Philips Android TV without a Google Account via the preinstalled selection of applications, we recommend a Google account to download additional apps from the Google Play Store or use the Google Assistant.

Note(s)

- Simply login with your Google account.
- It is recommended to create a new Google account specifically for your Android TV. A new account will prevent interference and syncing of your personal account. To create a new Google account, visit <http://accounts.google.com/signup> on your smartphone, tablet, or computer.

Apps

You can check the downloaded apps.

- **Recently opened apps**
- **Apps list**
- **See all apps**
- **Permissions**
- **App permissions**
- **Special app access**
- **Security & restrictions**

Device Preferences

About

You can check system update and TV registration information.

System update

Check for update

Device name

You can name it to help identify it when casting PHILIPS 4K television or connecting it from another device.

Restart

Restart the TV.

Status

Network, serial numbers and other information

Legal information

Confirm legal information.

Model

Confirm Model

Version

Confirm Version

Software version

Confirm Software version

Netflix ESN

Confirm Netflix ESN

Android security patch level

Confirm Android security patch level

Kernel version

Confirm Kernel version

Build

Confirm Build

Date & time

Automatic date & time

Use network-provided time or off

If it is set to off, please manually set the date and time.

Set date

Set time

Set time zone

Select your time zone

Use 24-hour format

Set the time to display in a 12 or 24-hour format

Timer

Power On Time Type

Auto Power On Time

Power Off Time Type

Auto Power Off Time

Language

You can set the language for the on-screen display.

1 Use ▲▼ to select **Language**, then press **OK**.

2 Use ▲▼ to select **English**, **Español** or **Français**, then press **OK**.

Note(s)

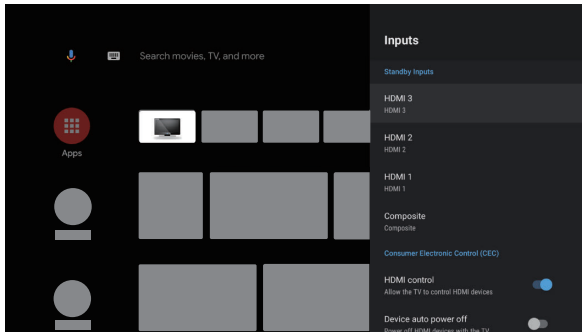
- If you need the English menu instead of the Spanish or French menu's, press **⏪ (HOME)**.
Use ▲▼◀▶ to select **Settings**, then press **OK**.
Use ▲▼ to select **Language**, then press **OK**.
Use ▲▼ to select **English**, then press **OK**.
Press **⏪ (HOME)** to exit the Home menu.

Keyboard

Perform the keyboard setting.

Inputs

Connected Input(s) / Standby Input(s)



Consumer Electronic Control (CEC)

HDMI control

Allow the TV to control HDMI devices.

Device auto power off

Power off HDMI devices with the TV.

TV auto power on

Power on the TV with HDMI devices.

HDMI EDID Version

Version of HDMI EDID.

Select **EDID 2.0** for 4K@60 Hz or HDR signals. Select **EDID 1.4** for legacy devices that output 4K@30 Hz or less with no HDR.

HDMI EDID Version is appeared when only watching Live TV program from each HDMI connected device.

CEC Device List

Displays the connected CEC device.

Power

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Power**, then press **OK**.
- 3 Adjust the following items.

Sleep Timer

- Off
- 10 Minutes
- 20 Minutes
- 30 Minutes
- 40 Minutes
- 50 Minutes
- 60 Minutes
- 90 Minutes
- 120 Minutes

Picture off

Select **Picture off**, the TV screen is switched off, to switch the TV screen back on, press any key on the remote.

No Signal Auto Power Off

The power is automatically turned off when a certain period of no signal has passed, such as with HDMI.

- Off
- 5 Minutes
- 10 Minutes
- 15 Minutes
- 30 Minutes
- 60 Minutes

Picture

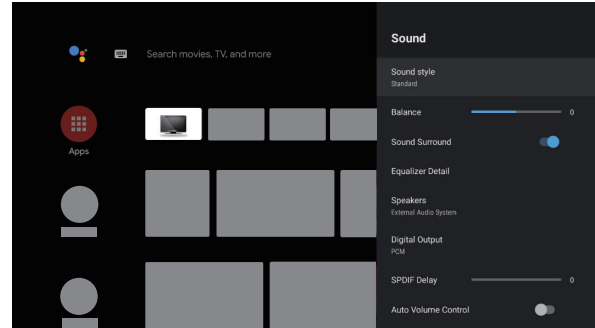
○ Picture style

User	Picture style setting is changed to User when you adjust the picture settings.
Standard	For normal TV viewing.
Vivid	Enhanced picture contrast and sharpness for viewing in a well-lit room.
Sports	Brilliant picture settings for high action.
Movie	Deep picture settings for a cinematic experience.
Game	Optimized for PCs and game consoles.
Energy saving	Eco TV settings for low power consumption.

- Backlight
- Brightness
- Contrast
- Color
- Tint
- Sharpness
- Gamma
 - Dark
 - Middle
 - Bright
- Color Temperature
 - Color Temperature
 - Red Gain
 - Green Gain
 - Blue Gain
- Picture Format
 - Automatic
 - Full
 - Unscaled
 - 4:3
 - Movie expand
- Advanced Video
 - Noise reduction
 - MPEG artifact reduction
 - Dynamic contrast
 - Local Contrast Control
 - Film mode
 - Blue Stretch
 - Game Mode
 - PC Mode
 - HDMI RGB Range
- Custom color management
 - Enable
 - Tint
 - Color
 - Brightness
 - Offset
 - Gain
- 11 Point White Balance Correction
 - Enable
 - Gain
 - Red
 - Green
 - Blue
- Reset to Default

Sound

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Sound**, then press **OK**.



- 3 Use **▲▼◀▶** to select the item you want to adjust, then press **OK**.

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

Sound style	User	The customized settings you preferred.
	Standard	For normal TV viewing.
	Vivid	Enhanced sound.
	Sports	Clear sound for high action.
	Movie	Powerful sound settings for a cinematic experience.
	Music	Optimized for music playback.
	News	Set the anchor's voice at a comfortable volume.

Adjust the speakers to suit your listening preference.

Balance	Cursor ◀	Cursor ▶
	To adjust the balance of the right and left speakers	

This selects sound modes for more spatial or surround sound reproduction.

Sound Surround	Off	To set Sound Surround to off
	On	To set Sound Surround to on

Adjust the tonal quality for each frequency.

Equalizer Detail	<input type="radio"/> 120 Hz
	<input type="radio"/> 500 Hz
	<input type="radio"/> 1500 Hz
	<input type="radio"/> 5000 Hz
	<input type="radio"/> 10000 Hz

You can select the audio output from the unit's speakers or not. If your amplifier is HDMI link function compatible and connected by an HDMI cable to this unit, some sound operations such as volume up can be changed by using this unit's remote. Make sure **HDMI control** is set to **On**. → p. 27

Speakers	TV Speakers	Output from TV speakers even when an external device is connected.
	External Audio System	Output from the external audio system when an external device is connected. Output from TV speakers when an external device is not connected.

You can set the digital audio output format from SPDIF/ARC.

Digital Output	<input type="radio"/> Auto
	<input type="radio"/> Bypass
	<input type="radio"/> PCM
	<input type="radio"/> Dolby Digital Plus
	<input type="radio"/> Dolby Digital

The on-screen picture and the sound from an amplifier via the digital audio (SPDIF) output jack are synchronized by delaying the output from the connection.

SPDIF Delay	Cursor ◀	Cursor ▶
	The higher values will increase the digital audio (SPDIF) output delay.	

This function keeps a constant Loudness differential between the TV commercials and the programs.

Auto Volume Control	Off	To remove the Auto Volume Control
	On	To reduce volume differences between the TV commercials and the programs

Reset the sound settings.

Reset to Default

Storage

Internal shared storage

Removeable storage

Home screen

Set the home screen.

Customize channels

Enable video previews

Enable audio previews

Reorder apps

Reorder games

Android TV Home

Android TV Core Services

Retail Mode

Retail Mode

Retail Messaging

Google Assistant

Accounts

Accept permissions

Searchable apps

SafeSearch filter

Block offensive words

Open source licenses

Chromecast Android Shell

Open source license

Version number

Screen saver

Screen saver

- Turn screen off
- Backdrop
- Colors

When to start

- 5 minutes
- 15 minutes
- 30 minutes
- 1 hour
- 2 hours

Put device to sleep

- 30 minutes
- 1 hour
- 3 hours
- 6 hours
- 12 hours
- Never

Start now

Screensaver will start immediately.

Location

Location status

- Use Wi-Fi to estimate location
- Off

Google Play services

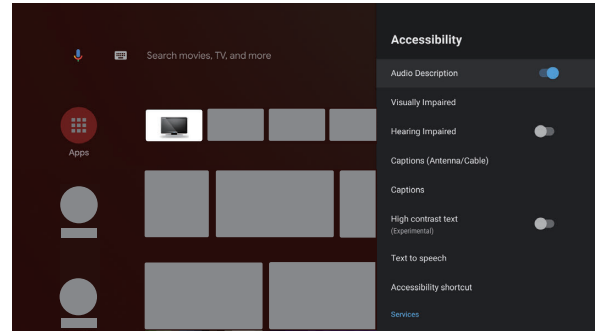
- Force stop
- Uninstall updates
- Enable or Disable
- Storage used
- Clear data
- Clear cache
- Clear defaults
- Notifications
- Permissions

Usage & Diagnostics

Off / On

Accessibility

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Device Preferences**, then press **OK**.
- 3 Use **▲▼** to select **Accessibility**, then press **OK**.



- 4 Adjust the following items.

Captions (Antenna / Cable)

Display	Off	Closed caption is not displayed.
	On	Closed caption is always displayed.
	CC w/ mute	Closed caption is displayed when the sound is off.

Caption service	CC-1 and T-1	The primary closed captions and text services. The closed captions or text is displayed in the same language as the program's dialog (up to 4 lines of script on the TV screen).
	CC-3 and T-3	Serve as the preferred data channels. The closed captions or text is often a secondary language.
	CC-2, CC-4, T-2 and T-4	Rarely available and broadcasters use them only in special conditions, such as when CC-1 and CC-3 or T-1 and T-3 are not available.

In addition to the basic closed caption, DTV has its own closed caption called digital caption service. Use this menu to change the settings for digital caption service.

Advanced selection	CS-1 to CS-6	Select one of these before changing any other item in Captions (Antenna / Cable) menu. Choose CS-1 under normal conditions.
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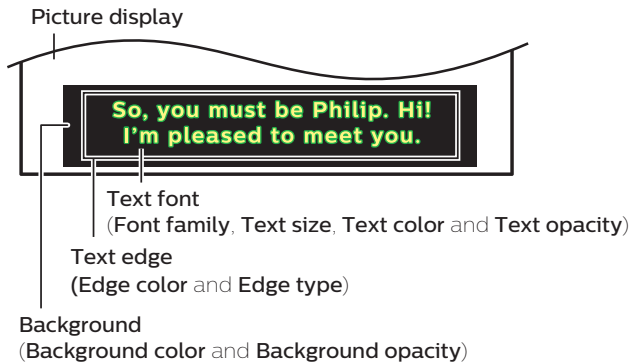
Captions

Display	Off	Closed caption is not displayed.
	On	Closed caption is always displayed.

You can choose the size, font, color, background and other characteristics of the caption text.

Language	<input type="radio"/> Default <input type="radio"/> English <input type="radio"/> Español <input type="radio"/> Français
----------	---

Text size	<input type="radio"/> Very small <input type="radio"/> Small <input type="radio"/> Normal <input type="radio"/> Large <input type="radio"/> Very large
-----------	--



- Review your setting choice made above by looking in the bottom left corner of the displayed setting box (not all selections show the differences selected).

Note(s)

- Caption service that you can switch differs depending on the broadcast description.
- Closed captioning service may not be controlled by this unit's menu options if you are watching television through an external cable or satellite set-top box. In which case you will need to use the menu options on the external set-top box to control closed captioning.
- The captions do not always use correct spelling and grammar.
- Not all TV programs and product commercials include closed caption information. Refer to your area TV program listings for the TV channels and times of closed caption shows. The captioned programs are usually noted in the TV listings with service marks such as **CC**.
- Not all captioning services are used by a TV channel during the transmission of a closed caption program.
- Closed caption will NOT be displayed when you are using an HDMI or a component connection.
- To show the closed caption on your TV screen, broadcast signal must contain the closed caption data.
- Not all TV programs and commercials have the closed caption or all types of the closed caption.
- Caption's and text may not exactly match the TV voice.
- Changing channels may delay the closed caption for a few seconds.
- Adjusting or muting the volume may delay the closed caption for a few seconds.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a malfunction.
- The caption or text characters will not be displayed while the Main menu or functions display is shown.
- If a black box appears on the TV screen, this means that the closed caption is set to the text mode. To clear the box, select **CC-1**, **CC-2**, **CC-3** or **CC-4**.
- If the unit receives poor quality television signals, the captions may contain errors or there might be no captions at all. Some possible causes of poor quality signals are:
 - Automobile ignition noise
 - Electric motor noise
 - Weak signal reception
 - Multiplex signal reception (ghosts or screen flutter)
 - Data dropout and pixelation (for DTV only)
- The unit retains the closed caption setting if the power fails.
- When the unit receives special effects playback signal (e.g. search, slow and still) from a VCR's video output channel (ch3 or ch4), the unit may not display the correct caption or text.
- The EUT setting that satisfies § 79.102 (e) is as follows:
 - Font: Mono-font
 - Character size: Large

Audio Description

Visually Impaired

Speaker

Headphone

Volume

Pane and Fade

Audio for the Visually Impaired

Fader Control

Hearing Impaired

High contrast text

On / Off

Text to speech

Text to speech output settings.

To set On / Off of this function, select and set **TalkBack**.

Accessibility shortcut

When **Enable accessibility shortcut** is **On**, you can switch the setting value of **Shortcut service** by holding down ▼ and ← (**BACK**) for few seconds.

Enable accessibility shortcut

On / Off

Shortcut service

TalkBack / Accesibility Menu / Select to Speak

TalkBack

TalkBack is the Google screen reader included on Android devices. TalkBack gives you spoken feedback so that you can use your device without looking at the screen.

Accessibility Menu

Select to Speak

Reset

Perform a factory reset

Remote & accessories

Add accessory

Searching for Buletooth accessories...

5 Useful tips

FAQ

Question	Answer
<p>My remote does not work. What should I do?</p>	<ul style="list-style-type: none"> • Check the antenna or cable connection to the main unit. • Check the batteries on the remote. • Check if there is an obstacle between the infrared sensor window and the remote. • Test the IR signal output use IR signal check. ➔ p. 36 If okay, then possible infrared sensor trouble. • Aim the remote directly at the infrared sensor window on the front of the unit. • Reduce the distance to the unit. • Re-insert or replace the AAA batteries with their polarities (+/-) as indicated on the remote battery area. • When there is an infrared-equipped device such as PC near this unit, it may interrupt the remote signal on this unit. Move the infrared-equipped device away from this unit, change the angle of the device's infrared sensor or turn off the infrared communication function.
<p>How come the initial setup appears every time I turn on this unit?</p>	<ul style="list-style-type: none"> • Make sure to complete the initial setup before the unit goes into standby mode.
<p>Why can I not watch some RF signal TV programs?</p>	<ul style="list-style-type: none"> • The selected channel may not be broadcasting. • The selected channel cannot be viewed by the Parental Controls setting. ➔ p. 23 • The unit requires some kind of antenna input. An indoor antenna (Digital or VHF / UHF), an external antenna (Digital or VHF / UHF) or an RF coaxial cable from your wall cable or set-top box needs to be plugged into the unit.
<p>How come there is no image from the connected external devices?</p>	<ul style="list-style-type: none"> • Check if the correct input is selected by pressing INPUT. ➔ p. 18 • Check the antenna, cable or other input connection to the unit.
<p>When I enter a channel number, why does it change automatically?</p>	<ul style="list-style-type: none"> • Many digital channels have alternate channel numbers. The unit changes the numbers automatically to the ones signifying the broadcasting station's channel number. These basic numbers used for the previous analog broadcasts. (e.g., input digital ch# 30 automatically changes to digital ch# 8.1)
<p>Why are captions not displayed entirely? Or why are captions delayed behind the dialog?</p>	<ul style="list-style-type: none"> • Closed captions that are delayed a few seconds behind the actual dialog are common for live broadcasts. Most captioning production companies can display a dialog to maximum of 220 words per minute. If a dialog exceeds that rate, selective editing is used to insure that the closed captions remain up-to date with the current TV screen dialog.
<p>How can I set the clock?</p>	<ul style="list-style-type: none"> • From the Android TV home screen, select Settings in the upper right of the screen. Scroll down to Device Preferences and select Date & time. Please set it automatically or manually.

Troubleshooting tips

If the unit does not perform properly when operated as instructed in this manual,

Please check the following Troubleshooting tips and all connections once before calling for service.

Power

No power

- Make sure the AC power cord is plugged in.
- Make sure that the AC outlet supplies the proper voltage, plug another electrical appliance into the AC outlet to ensure that the AC outlet operates normally.
- If a power failure occurs, unplug the AC power cord for 1 minute to allow the unit to reset itself.

Remote

Control buttons do not work.

- Do NOT press more than one button at the same time.
- Ensure that no buttons on the remote are depressed and move freely.
- Re-insert or replace the AAA batteries with their polarities (+/-) as indicated on the remote battery area.

Universal remote does not work properly.

- Refer to the user manual of the universal remote for the Philips code.

The Google Assistant microphone on the remote does not work.

- To pair the remote, refer to the step "6 Connecting your devices" in the Quick start guide and see "How to connect to your Bluetooth® devices".

Performance

Remote response is delayed or sluggish during initial use.

- Your television is automatically, downloading and installing the latest applications, for the best user experience.
- During this time, you may experience a delayed response from your remote. Upon successful installation, your remote will operate normally.

Accessibility

Television is speaking prompts out-loud.

- To enable or disable the talkback (text to speech) on your television, press **HOME** on your remote, navigate to settings (found in the upper right corner of the home screen) and select accessibility, select talkback, press **OK** to toggle between on or off.

Picture

Power is on but screen image is off.

- Check if the connection for your source device is properly secured.
 - Check if the correct input is selected by pressing **INPUT**.
 - Verify that your HDMI mode, for the input selected matches the resolution output of your source device.
- Change source input until you have picture and sound.

Sound

No sound is heard when using the HDMI digital connection.

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.

No sound, distorted sound or incorrect audio sound is heard when using the HDMI-DVI connections.

- Make sure that the analog audio signals from the HDMI-DVI device are connected to the analog audio input L/R jacks.
- When using Composite analog video, make sure that the analog audio (L/R) connectors are mounted into the audio (L/R) input jacks.

No sound from Soundbar / Home theater using an HDMI cable.

- Please check to be sure the device is connected to the HDMI 2 (ARC) input on the TV.

Sound intermittent or no sound.

- Check if the audio cable is connected into the unit correctly.

You switch to a different input and the volume changes.

- This unit will memorize the volume level from the last time you adjusted it.
 - If the volume of the sound from another device is higher or lower, then the loudness will change.
 - Make sure **Auto Volume Control** is set to **On**.
- ⇒ p. 29

Picture & Sound

No sound with distorted picture occurs when using the HDMI digital connection.

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.

No picture or sound

- Check if the power is on.
- Check whether all the cables to the unit are connected to the correct output jack on your separate device like Blu-ray Disc™ / DVD recorder.
- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.
- Unplug the AC power cord and wait for about 1 minute, then plug the AC power cord and turn on the unit again.
- Check whether the connection of the antenna or cable / satellite set-top box is connected correctly.
- Make sure that the selected input mode is connected to the working input jack.
- Make sure that the sound is not muted. Press **MUTE** so that the volume bar and current volume level will appear on the TV screen.
- Make sure that the volume is NOT set to **0** or **MUTE**. If so, use **VOL + / -** to adjust to the desired volume.
- Make sure that the headphone is NOT connected to the headphone audio output jack.
- If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the **HDMI EDID Version**. (Refer to **HDMI EDID Version** ⇒ p. 15)

Adjusted Picture or Sound settings are not effective every time the unit is turned on.

- You need to turn off the **Retail Mode** setting. ⇒ p. 29 (Otherwise, the settings you adjusted will not be memorized after the unit goes into standby mode.)

You see a distorted picture or hear an unusual sound. (Analog TV - NTSC signal)

- You may be getting NTSC (Analog) TV signal (not HDTV signal) interference from electrical appliances, automobiles, motorcycles or fluorescent lights.
- Try moving the unit to another location to see if this is the cause of the problem.

Ghosts, lines or streaks in picture.

- Electrical interference from nearby appliances may affect picture quality.
- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.

Picture poor, sound intermittent or no sound

- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.

Screen

You switch to a different input and the screen size changes.

- This unit will memorize the viewing mode from the last time you used the particular input modes.

The display image does not cover the entire screen.

- If you are watching TV or using the composite video or HDMI with 480i input, select **Picture format**, and then switch to various screen modes. (Refer to **Picture format** ⇒ p. 20)

Different color marks on the TV screen

- View other TV channels. The problem might be limited to the broadcasting station, missing data or pixelation due to weak signal strength.

Closed captions

Closed captions are displayed as a white box. No closed captions are displayed in the closed captions-supported program.

- Interference from buildings or weather conditions may cause closed captions to be incomplete if watching analog TV signals.
- Broadcasting station may shorten the program to insert advertisements. The closed caption decoder cannot read the information of the shortened program.

Black box is displayed on the TV screen.

- The text mode is selected for caption. Select **CC-1**, **CC-2**, **CC-3** or **CC-4**.

Software update

A message appears on the screen prompting for software update again.

- When you start up the TV or a net service after executing the software update, a message may appear on the screen prompting for software update again. In this case, please execute the software update. (start from **Settings > Device Preferences > About > System update**)

Network

Cannot connect to the network.

- Check if the broadband router and/or modem is correctly connected.
- Check if the Ethernet cable connection is properly made. Turn on the broadband router and/or modem.
- Check the network settings.

Sometimes video quality is poor when using the wireless LAN.

- The wireless network connection quality varies depending on the distance or obstacles (e.g. wall, basement, 2nd floor) between the TV wireless LAN adapter and the wireless router (access point), from other wireless networks, and brand and type of the wireless router (access point). When using the wireless LAN of the TV, it is suggested to place the wireless router as close as possible to the television.

Wireless LAN connection fails or wireless connection is poor.

- Check the installation location of the TV and wireless router (access point). Signal quality may be affected for the following reasons.
 - Interference of other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
 - There are floors or walls between the wireless router and TV.
 - If the problems continue even after checking the above, try making a wired LAN connection.

Cannot use the wireless connection.

- Check if the wireless LAN Access Point (AP) (e.g. wireless router) is oriented properly or not placed too close between them.
- Once you have activated the wireless connection please wait 30 seconds for the connection to be established after turning on the unit, before trying to access network features.

Slow Data Connection or buffering.

- Check the settings between your router and ISP modem or gateway (if applicable).
- Connect to a stable wireless connection from home wireless or wired network.
- The use of mobile hot spots or public wireless connections is not recommended.

Cannot use Netflix feature.

- Check if the network connection is properly made.
- Visit <http://www.netflix.com> on your PC and become a Netflix member.
- Some network services may not be available in your country.

Cannot add movies or TV episodes to the Instant Queue.

- Visit www.netflix.com on your PC.

Even though the speed of the internet connection improves during playback, the picture quality of Netflix streaming movie does not improve.

- The picture quality does not change during playback. It differs depending on the speed of internet connection at the time of loading.

Cannot use VUDU feature.

- VUDU is available only in the United States.
- Check if the network connection is properly made.

Cannot rent or buy movies / TV episodes on VUDU.

- You need to activate the VUDU account. For detailed information, please visit the service providers website at <http://www.vudu.com>
- Log into your account at <http://my.vudu.com> and check your payment information.

The picture quality of a streaming movie (Netflix or VUDU) is poor.

- Check the speed of your internet connection. You need speeds of at least 8 Mbps to this player for high quality uninterrupted playback.

Streaming movie (Netflix or VUDU) often stops or starts buffering during playback.

- Contact your internet service provider to troubleshoot your internet connection for speed and line quality. Consistent line quality and speed are very important for internet video playback.

Cannot connect to the network while my PC is connected to the network.

- Check the content of your internet service contract to see if your internet service provider prevents multiple terminals connecting at the same time.

Folder or files stored on home network media server are not displayed in the file list or cannot be played back.

- Check the setting on your home media server. (Refer to the user manual of the home media server.)
- Check the network connection and settings.

Note(s)

- The LCD screen is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a fixed point of blue, green or red. This is not to be considered a defect in the LCD screen.
- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for more details on correct operations.

For additional troubleshooting, refer to the Frequently Asked Questions or FAQs on www.philips.com/support.

6 Information

Glossary

Analog TV (NTSC)

Acronym that stands for National Television Systems Committee and the name of analog broadcasting standards.

Off the air analog TV signals are no longer being sent by major broadcasting stations in the USA.

ARC (Audio Return Channel) (HDMI 2 only)

HDMI-ARC allows you to use Philips HDMI control to output TV audio directly to a connected audio device, without the need for an additional digital audio cable. Be sure that the device is HDMI CEC and ARC compliant, and that the TV is connected to the device using an HDMI cable attached to both HDMI-ARC connectors.

Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

CEC (Consumer Electronics Control)

This allows you to operate the linked functions between our brand devices with CEC feature and this unit. We do not guarantee 100% interoperability with other brands of CEC compliant devices.

Dolby Digital

The system developed by Dolby Laboratories to compress digital sound. It offers stereo sound (2ch) or multi-channel audio.

DTV (ATSC)

Abbreviation that stands for Advanced Television Systems Committee and the name of the digital broadcasting standards.

e-POP

e-POP is showing set features, technical information, etc on this TV set that is displayed on the TV screen mainly used by TV retailers. Previously the information was on a printed sticker that was put on the display.

HDMI (High-Definition Multimedia Interface)

Interface that supports all uncompressed, digital audio / video formats including set-top box, Blu-ray Disc™ / DVD recorder or digital television, over a single cable.

HDR

HDR stands for High Dynamic Range. By using additional data encoded with the source signal, HDR capable products offer greater contrast through an expansion of the range of the image's color luminance. The source, cable and display must all support HDR.

HDTV (High-Definition TV)

Ultimate digital format that produces high resolution and high picture quality.

PIN code

A stored 4-digit number that allows access to parental control features.

SAP (Secondary Audio Program)

Second-audio channel delivered separately from the Main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

SDTV (Standard Definition TV)

Standard digital format that is similar to the analog TV picture quality.

Maintenance

Cleaning

- Clean the front panel and other exterior surfaces of the unit with a soft microfiber cloth or lens brush. Before cleaning the panel, disconnect the AC power cord.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.
- Do not spray any liquids on the screen or other exterior surfaces of this unit. If liquids enter the unit, they could cause shorts, electric shocks or fire damage.



Servicing

Should your unit become inoperative, do not try to correct the problem yourself. There are no user serviceable parts inside. Call our toll free customer support line found on the cover of this user manual to locate an authorized service center.

IR signal check

If the remote is not working properly, you can use a digital or cell phone camera to see if it is sending out an infrared signal.



e.g.) With a digital camera:

Point the digital camera towards the remote infrared diode at the front of the remote. Press and hold any key on the remote and look at the camera display. If an infrared pulsating light appears on the display, the remote is sending out an IR signal.

Note: Some cameras may have an IR filter or dual camera cell phones may have an IR filter in one of the camera's and both will not display the IR signal.

7 Specifications

Model #		55PFL5604	50PFL5604
Picture			
Type	UHD (Ultra HD) (3840 x 2160 pixels 60 Hz)		
Diagonal screen size / Aspect ratio	54.6" / 16:9	49.5" / 16:9	
Viewing angles	178° (V) by 178° (H)		
Built-in digital / analog tuner	ATSC (digital) / NTSC (analog)		
Sound			
Mono / Stereo	Mono, Stereo		
Power output (RMS watts)	10 W x 2		
Equalizer	5 band		
Ease of use			
Picture format	SD (4:3 source)	Automatic / Full / Unscaled / 4:3 / Movie expand	
	HD (16:9 source)		
	UHD		
Channel			
Channel coverage	Over-the-Air DTV (ATSC)	VHF: 2~13 UHF: 14~69 (Each channel may have e.g. 2.1~2.9, 3.1~3.9, etc)	
	Over-the-Air Analog (NTSC)	VHF: 2~13 UHF: 14~69	
CATV (Analog NTSC)	2~13, A~W W+1~W+94 (Analog W+1~W+84), A-5~A-1, 5A		
Tuning system	Channel frequency synthesized tuning system		
Channel access	Direct access number keyboard, Programmable scan and Channel + (up) / - (down)		
Connectivity			
Composite video input	1		
HDMI input	3 (selectable HDMI modes)		
	Supporting HDMI video signals : 480i/p, 720p, 1080i @60 Hz, 1080p, 2160p @24/30/60 Hz		
	Supporting HDMI HDR signals : HDR10		
	Supporting HDMI digital audio signals : LPCM, AC3, DD+ Supporting PC-input video signal up to 4096 x 2160		
Analog audio L/R input	1 (L audio / R audio)		
PC input	Via HDMI and HDMI-DVI + Analog audio L/R		
USB	1		
Wireless LAN	Wireless LAN Supporting wireless standards : IEEE 802.11a/b/g/n/ac (2.4 GHz/5 GHz)		
Ethernet port	1		
Digital audio output	1 Supporting Dolby Digital		
Headphone output	1 1/8" (3.5 mm)		
Power			
Power requirements	120 V~ +/- 10%, 60 Hz +/- 0.5%		
Temperature			
Operating temperature	41°F (5°C) to 104°F (40°C)		

- Specifications are subject to change without prior notice.

8 Warranty

Limited warranty one (1) year

Warranty coverage :

This warranty obligation is limited to the terms as set forth below.

Who is covered:

This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

What is covered:

This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the Warranty Period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in current inventory, or (3) refund the original purchase price of the product.

Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.

Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

What is not covered - Exclusions and limitations:

This Limited Warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

This Limited Warranty does not cover:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per user manual.

To obtain assistance...

Contact the Customer Care Center at:
1-866-309-5962

Chat with us in English:
<https://tinyurl.com/y2e29xsq>

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Funai Corporation, Inc.
12489 Lakeland Road, Santa Fe Springs, CA 90670, USA

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AC1R0UT-55UL/AC1U0UT-50UX
★★★★

PHILIPS

Televisions

5704 series
5604 series

55PFL5704
55PFL5604
50PFL5704
50PFL5604
43PFL5704
43PFL5604



Register your product and get support at

www.philips.com/support

EN **User manual**

FR **Manuel d'utilisation**

EN **For further assistance, please call the customer support in your country or check the Philips website for chat support.**

• To obtain assistance, contact Philips customer care center;
In the U.S.A., Canada, Puerto Rico, or the U.S. Virgin Islands
1 866 309 5962

FR **Pour plus de l'aide, s'il vous plaît contactez le service clientèle de votre pays ou consultez le site Web de Philips pour obtenir une assistance par chat.**

• Pour obtenir de l'aide, communiquez avec le centre de service à la clientèle Philips au;
Dans le États-Unis, au Canada, à Puerto Rico ou aux Îles Vierges américaines; **1 866 309 5962**

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• Displays and illustrations may differ depending on the product you purchase.

Register online today at www.philips.com/support today to get the most benefits from your purchase.

Registering your model with Philips makes you eligible for all of the valuable benefits listed below, so don't miss out. Register online at www.philips.com/support to ensure:

*Product safety notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

Know these **safety** symbols



The caution marking is located on the rear or bottom of the cabinet.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

PHILIPS

For fastest support visit us online for chat and self service solutions at www.philips.com/support

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

CTA.tech/safety Consumer Technology Association™

Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

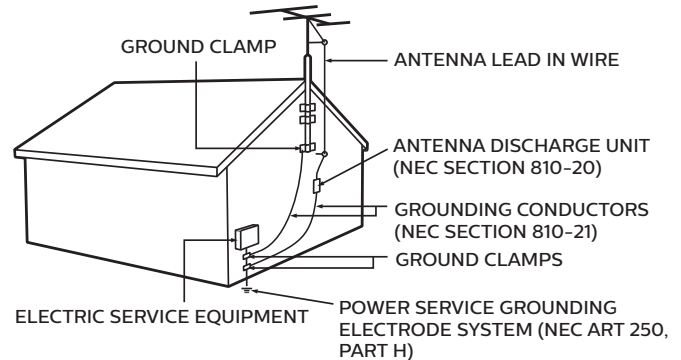


13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to the CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of antenna grounding as per NEC - National Electric Code



Wall mount bracket kit

	Brand	Model #	Screw dimension
55PFL5704/F7 55PFL5604/F7 50PFL5704/F7 50PFL5604/F7	SANUS	F80b	M6 x 1.378" (35mm)
43PFL5704/F7 43PFL5604/F7	SANUS	SAN25BB	M4 x 1.378" (35mm)

- Your TV meets the VESA standard for wall mounting. Consult with your local dealer for a wall mount bracket which is compatible with your TV model.
- The recommended wall mount bracket kit (sold separately) allows the mounting of the TV on the wall.
- For detailed information on installing the wall mount, refer to the wall mount instruction book.
- Funai Corporation is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV wall mount bracket or mount the TV onto the bracket.
- The wall mount bracket must be installed by experts.

Funai Corporation is not liable for these types of accidents or injuries noted below.

- If installed onto a ceiling or slanted wall, the TV and wall mount bracket may fall which could result in a severe injury.
- Do not use screws that are longer or shorter than their specified length. If screws too long are used this may cause mechanical or electrical damage inside the TV set. If screws too short are used this may cause the TV set to fall.
- Do not fasten the screws by excessive force. This may damage the product or cause the product to fall, leading to an injury.
- For safety reasons use 2 people to mount the TV onto a wall mounting bracket.
- Do not mount the TV onto the wall mounting bracket while your TV is plugged in or turned on. It may result in an electrical shock injury.

When installing the unit on the wall, allow this much space.

Top	: 11.8 inches (30cm)
Left and right side	: 5.9 inches (15cm)
Bottom	: 3.9 inches (10cm)

1 Notice

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Funai Corporation reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this Owner's 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. Funai Corporation warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. Funai Corporation cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Funai Corporation will be adapted and published on the Funai Corporation support website as soon as possible.

Pixel characteristics

This LCD 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.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by service centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

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

Federal communications commission notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Declaration of conformity

Trade name : PHILIPS
Responsible party : Funai Corporation, Inc.
Model : 55PFL5704/F7, 55PFL5604/F7,
 50PFL5704/F7, 50PFL5604/F7,
 43PFL5704/F7, 43PFL5604/F7
Address : 12489 Lakeland Road, Santa Fe Springs, CA
 90670, USA*
Telephone number : 1 866 309 5962

* This is not the mailing address for Open Source Software or Customer service.

Modifications

This apparatus may generate or use radio frequency energy. Changes or modifications to this apparatus may cause harmful interference.

Any modifications to the apparatus must be approved by Funai Corporation.

The user could lose the authority to operate this apparatus if an unauthorized change or modification is made.

Cables

Connections to this device must be made with shielded cables with metallic RFI / EMI connector hoods to maintain compliance with FCC Rules and regulations.

Canadian notice

CAN ICES-3 (B) / NMB-3 (B)

Analog and digital television receiving apparatus, Canada BETS-7 / NTMR-7.

The following FCC/IC RSS applies to the wireless LAN adapter included in this product.

FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC/IC RF Exposure Compliance

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment should be installed and operated keeping the radiator at least 20 cm or more away from your body.

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

5150-5250 MHz band is restricted to indoor operations only.

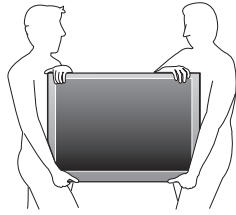
High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Compliance with FCC requirement 15.407(c) and IC requirement RSS-210A9.4.4

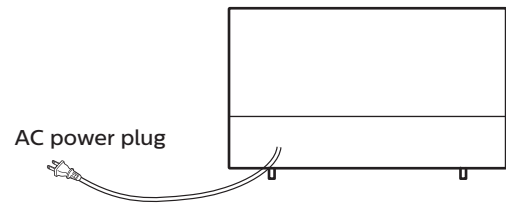
Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

Positioning the TV

- Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
- Make sure to hold the upper and bottom frames of the unit firmly as illustrated.
- Install the unit in a horizontal and stable position.
- Do not install the unit in direct sunlight or in a place subject to dust or strong vibration.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- When installing this unit in a temperate environment, avoid a place with rapid temperature changes.
 - Operating temperature: 41°F (5°C) to 104°F (40°C)
- This unit should not be used in a tropical environment as it has not been evaluated under such conditions.
- No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.
- Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Do not insert the AC power cord into the power socket outlet before all the connections are made.
- Ensure that you always have easy access to the AC power cord and outlet to disconnect the TV from the AC outlet.
- Before you move the TV, disconnect attached cables to prevent damage to connectors, especially the TV tuner.
- Be sure to unplug the AC power plug from the AC outlet before moving or carrying the unit.
- When moving the TV and then setting it down, please be careful not to pinch the AC power cord under the unit.
- Do not place this unit in an area where it may be exposed to water, oil or grease such as:
 - near a bathtub, basin, kitchen sink, washing tub, swimming pool, kitchen exhaust fan, etc., or in a damp basement.



Press **POWER** to turn the unit on and go into standby mode. To completely turn off the unit, you must unplug the AC power plug from the AC power outlet. Disconnect the AC power plug to shut the unit off when trouble is found or not in use. The AC plug shall remain readily available.



Never use a gas duster on this TV. The gas trapped inside of this unit may cause ignition and explosion.

Environmental care



The packaging of this product is intended to be recycled. Contact your local authorities for information about how to recycle the packaging.

For product recycling information, please visit - www.recycle.philips.com

End of life directives

Philips pays a lot of attention to produce environmental-friendly products in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

Batteries usage

CAUTION : Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: Batteries (battery pack or battery installed) should not be exposed to excessive heat such as sunshine, fire or the like.

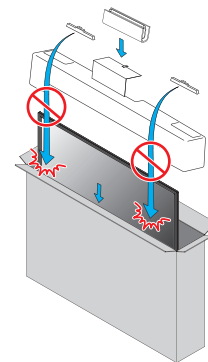
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, Li-ion, etc.) batteries.

Disposal of used batteries

The batteries included do not contain the heavy metals mercury and cadmium, however in certain localities, disposing batteries with household waste is not permitted. Please ensure you dispose of batteries according to local regulations.

Preparing to move / ship the unit

Please pack the unit properly by following the diagram on the carton (as noted below).



- To avoid damage to the screen, do not pack the stand on the same side as the TV screen, refer to the illustration above.

Regulatory notices

WARNING: To prevent injury, this apparatus must be securely attached to the furniture / wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury / death.

WARNING: Never place a TV in an unstable location. A TV may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the TV.
- Only using furniture that can safely support the TV.
- Ensuring the TV is not overhanging the edge of the supporting furniture.
- Not placing the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Not placing the TV on cloth or other materials that may be located between the TV and supporting furniture.
- Educating the children about the dangers of climbing on furniture to reach the TV or its controls.

If your existing TV is being retained and relocated, the same considerations as above should be applied.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure that there is enough ventilation space (4 inches / 10 cm or more) around this unit.

Copyright

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



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.



Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.



Netflix is available in certain countries. Streaming membership required. More information at www.netflix.com.



VUDU™ is a trademark of VUDU, Inc.



YouTube and the YouTube logo are trademarks of Google LLC.



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Funai Electric Co., Ltd. is under license. Other trademarks and trade names are those of their respective owners.

Google, Google Play, Android, YouTube, and related marks and logos are trademarks of Google LLC.

Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Features and specifications are subject to change without notice.

Network services, content, and the operating systems and software of this Product may be subject to individual terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information.

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

Some features may require an always-on broadband internet connection, firmware update and/or a minimum bandwidth. Internet services vary by location.

Use of key features of this TV requires consent to Google Terms of Service and Privacy Policy.

2 Getting started

Features

- Google Assistant on Android TV**
 Android TV brings a world of content to your biggest screen. With the Google Assistant built in, you can quickly access entertainment, get answers, and control devices around your home. Find the latest blockbuster, check the score of the big game, or dim the lights. Just say "Hey Google," or press the mic button on your remote to get started.
- Google Play**
 Android TV offers thousands of movies, shows, and games from Google Play, YouTube, and your favorite apps. Discover your favorite content, apps, and games on Google Play.
- DTV / Analog TV / CATV**
 You can use your remote control to select channels which are broadcast in digital format and conventional analog format. Also, cable and satellite subscribers can access their TV channels.
- Information display**
 You can display on the TV screen the title, contents (DTV only) and other information on the current program.
- Autoprogram**
 This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.
- Parental controls**
 This feature allows you to block children's access to inappropriate programs.
- Internet Browsing**
- Closed caption decoder**
 Built-in closed caption decoder displays text for closed caption supported programs.
- MTS / SAP tuner**
 Audio can be selected from the remote control.
- Auto standby**
 If there is no input signal and no operation for 15 minutes, the unit will go into standby mode automatically.
- Sleep timer**
 You can set the unit to go into standby mode after a specific amount of time.
- Choices for on-screen language**
 Select your on-screen language: English, Spanish or French.
- Stereo sound function**
- PLL frequency synthesized tuning**
 Provides free and easy channel selection and lets you tune directly to any channel using the number and decimal point "*" keys on the remote control.
- Various adjustments for picture and sound**
 Customizes picture quality suitable for your room and sets your sound preference.
- HDMI control**
 HDMI control allows your other HDMI link devices to be controlled by the HDMI cable connected to your TV.
- HDMI input**
- HDMI-DVI input**
 If your video device has a DVI output jack, use an HDMI-DVI conversion cable to connect the unit.
- AV input**
 Audio and video input from an external device.
- Digital audio output**
- Headphone audio output**
 Headphone 3.5 mm stereo jack for personal listening.

Included accessories

Quick start guide



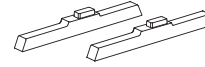
Safety instruction /
Limited warranty



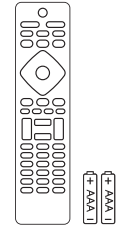
Caution sheet



TV base and screws *



Remote control and
Batteries
(AAA, 1.5V x 2)



* Screws packed with this unit.

Model	Quantity	Size
55PFL5704 / 55PFL5604 50PFL5704 / 50PFL5604	4	M4 x 0.709"(18mm)
43PFL5704 / 43PFL5604	2	

Note(s)

- If you lose the screws, please purchase the above-mentioned phillips head screws at your local store.
- If you need to replace these accessories, please refer to the part name or No. with the illustrations and call our toll free customer support line found on the cover of this user manual.

When using a universal remote control to operate this unit.

- Make sure the component code on your universal remote control is set to our brand. Refer to the instruction book accompanying your remote control for more details.
- We do not guarantee 100% interoperability with all universal remote controls.

Symbols used in this user manual

The following is the description for the symbols used in this user manual. Description refers to:

Digital TV operation

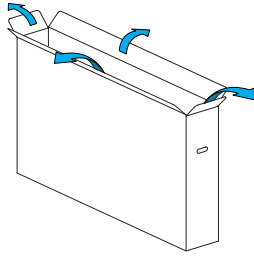
Cable / NTSC (Analog) TV operation

- If neither symbol appears, the operation is applicable to both.

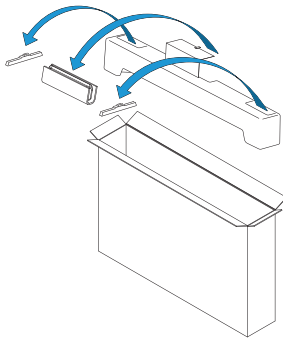
Unpacking

It is recommended that two or more people remove the TV set from the box. Be careful not to injure your fingers and keep children away during assembly.

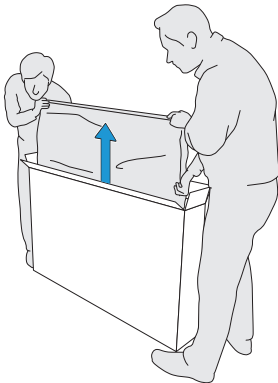
- 1 Open the top flaps of the box.



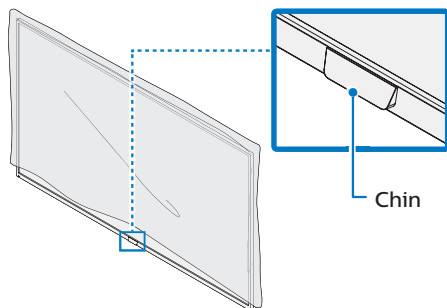
- 2 Remove all accessories.



- 3 Prepare a table and cover the top of it with a table cloth, blanket or such to avoid damage to the TV set. Support both sides of the TV set and, move it onto the table.



- 4 Carefully lay the TV set, with the screen side down, on the table so as not to deform or damage Decoration plate of the bottom of the unit.

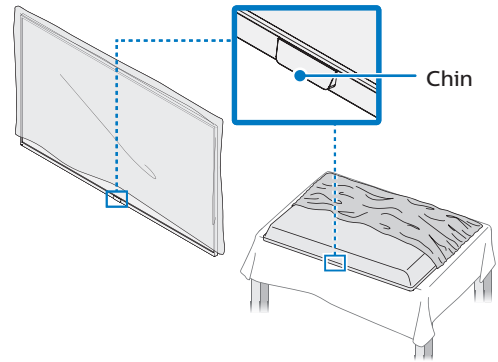


Installing the stands

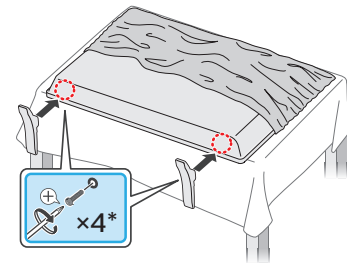
- 1 Remove the tape on the bottom of the TV set and the plastic bag.

! Caution(s)

- To avoid damage, prevent the chin and the screen from contacting the work table.

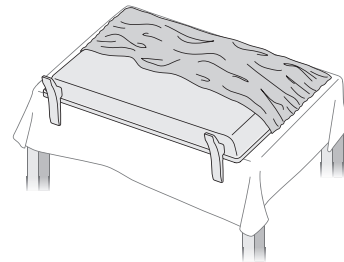


- 2 Fasten the stand to the TV with 4 screws (2 screws for 43PFL5704 / 43PFL5604). While fastening the screws, hold the stand to prevent it from falling.



* 2 screws for 43PFL5704 / 43PFL5604

- 3 Both stands should now be securely fastened.

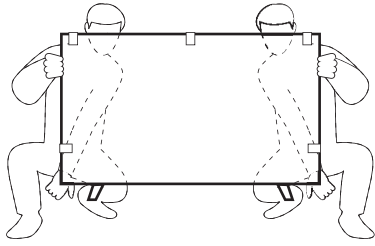


≡ Note(s)

- A wide open space is recommended for assembly.
- A Phillips-head screwdriver is required to fasten the stands to the TV set.
- When attaching the stand, ensure that all screws are tightly fastened. If the stand is not properly attached, it could cause the unit to fall, resulting in injuries as well as damage to the unit.
- To remove the stand from this unit, unscrew the phillips-head screws by reversing the procedure. Be careful not to drop the stand when you remove it.

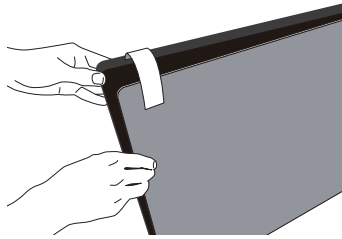
Lifting the TV set

Carefully lift the TV set as shown in the illustration and place it onto a stable, level surface.

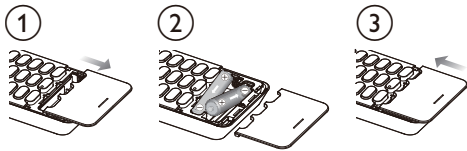


Removing cardboard

Remove the cardboard attached to the screen.



Installing the remote control batteries

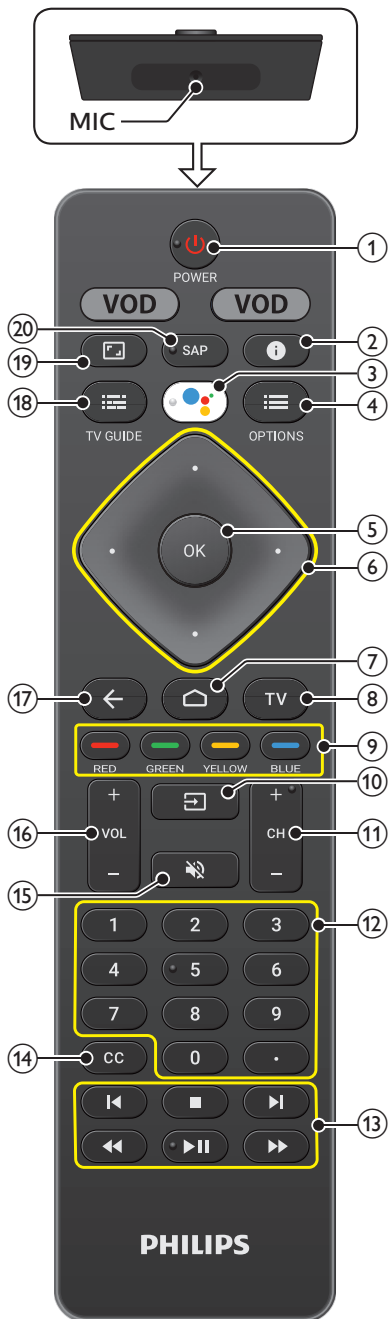


- 1 Open the battery cover by firmly sliding down.
- 2 Insert 2 AAA(1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.
- 3 Slide the cover back into position.

Note(s)

- Remove the batteries if not using the remote control for an extended period of time.

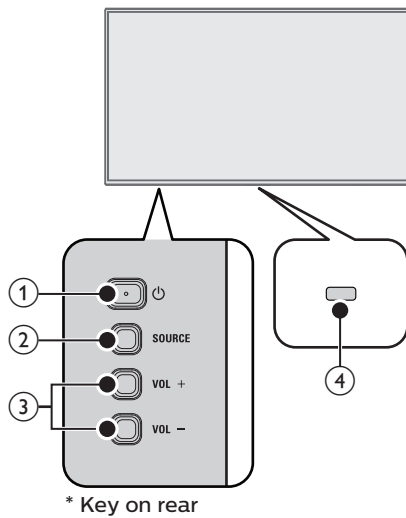
Remote control



- ① **POWER**
Turns the TV on and off of standby.
 - ② **INFO (INFO)**
Displays input, resolution, and HDR information.
 - ③ **Google Assistant**
Activates your personal Google Assistant.
 - ④ **OPTIONS**
Displays a list of menu options applicable to the active screen.
 - ⑤ **OK**
Press to decide the command of setting when the Home menu is displayed.
 - ⑥ **▲▼◀▶ (NAVIGATION buttons)**
Moves the cursor, selects the on-screen menu items.
 - ⑦ **HOME**
Access to your apps, Live TV, input devices, settings, and the Google Play Store.
 - ⑧ **TV**
Direct access to your installed TV channels. (This feature is only available for OTA and select cable channels.)
 - ⑨ **COLOR buttons**
Use these keys according to the directions on-screen with HDMI-CEC function.
 - ⑩ **INPUT**
Change input source.
Select and change access to the attached devices such as Blu-ray player, gaming consoles, or cable box.
 - ⑪ **CH + / -**
Selects a channel.
 - ⑫ **0 - 9 (NUMBER buttons)**
Used to enter a channel / program number.
• **(DOT)** : Use with **0-9** to select digital channels.
For example, to enter 2.1, press
 - ⑬ **HDMI-CEC keys**
 - ▶|| : Starts, pauses or resumes playback.
 - : Stops the disc playback.
 - ◀◀/▶▶ : Searches backward or forward through the disc.
 - ◀ / ▶ : Skips backward or forward chapters, titles or tracks on a disc.
- Note(s)**

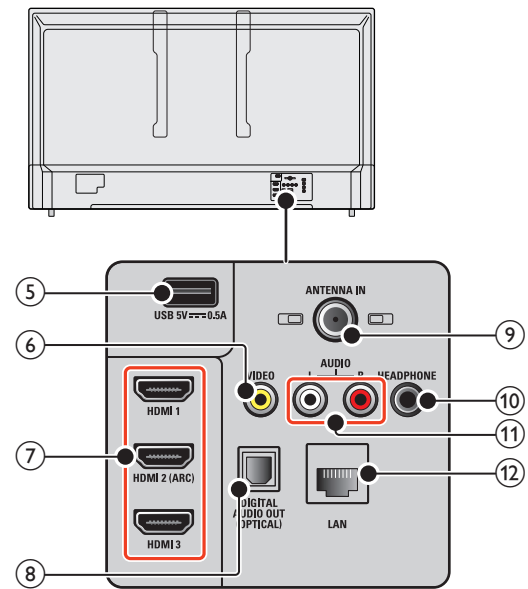
 - Pause may not work properly on some devices even if they are HDMI control (HDMI CEC) compliant.
- ⑭ **CC**
Displays the audio portion of programming as text superimposed over the video.
 - ⑮ **MUTE**
Turns the sound on and off.
 - ⑯ **VOL + / -**
Adjusts the volume.
 - ⑰ **BACK**
Returns to the previous menu screen.
 - ⑱ **TV GUIDE**
Access to the Electronic Program Guide (EPG).
It allows you to find channels and content easily.
 - ⑲ **FORMAT**
Adjusts the picture size on the TV screen.
 - ⑳ **SAP**
Selects audio mode (MONO / STEREO / SAP) / audio language.

Control panel



- ① **⏻ (POWER)**
Turns the TV on or switches the TV into standby mode.
- ② **SOURCE**
Selects connected devices.
- ③ **VOL + / -**
Adjusts the volume.
VOL + : Volume up
VOL - : Volume down
- ④ **Remote control sensor**
Receives IR signal from remote control.

Terminals



- ⑤ **USB terminal**
Data input from USB memory stick only.

Note(s)

- This TV has a USB port which is designed for USB media playback or to connect peripheral devices, such as a keyboard or mouse. While you may find that a particular keyboard or mouse works to some extent, we cannot guarantee full functionality. You will not damage the TV in any way by trying various keyboards or mice, but the performance of that device may be limited.

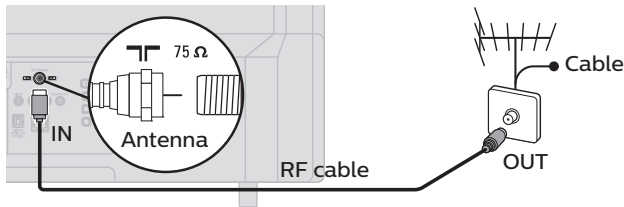
- ⑥ **Composite video (VIDEO) input jack**
Connect composite analog video signal.
- ⑦ **HDMI input jack(s)**
Digital audio and video input from high definition digital devices such as DVD / Blu-ray Disc™ players, cable / satellite set-top boxes, PC's, etc.
- ⑧ **Digital audio output (Optical) jack**
Digital audio (S/PDIF) output to home theaters and other digital audio systems.
- ⑨ **75 ohm Cable / Antenna connection**
Signal input from an antenna or Cable / Satellite set-top boxes.
- ⑩ **Headphone audio output jack**
Headphone 3.5 mm stereo jack for personal listening.
- ⑪ **Analog audio (L/R) input jacks**
Connect analog audio signals from;
 - HDMI-DVI / Analog audio (L/R) jacks signal
 - Composite video / Analog audio (L/R) jacks signal
 - PC connection / Analog audio (L/R) jacks signal with stereo mini 3.5 mm plug audio cable on PC
- ⑫ **Ethernet port**
For internet connection using an Ethernet cable with an RJ-45 connector.

Connecting antenna or cable / satellite / IPTV set-top box

Be sure your antenna or another device is connected properly before plugging in the AC power cord.

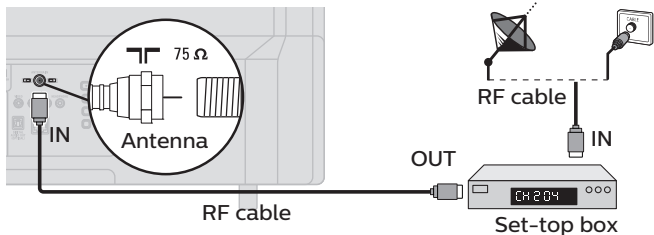
If connecting to an antenna through an RF cable

Any DTV programs that are broadcast in your area can be received for free through an antenna connection.




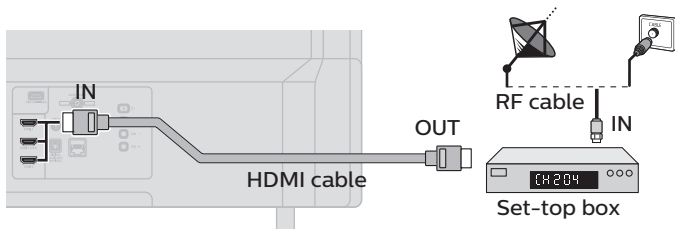
If connecting cable / satellite / IPTV set-top box using an RF cable

If the TV is connected to a cable / satellite set-top box via a coaxial connection, set the TV to channel 3/4 or the channel specified by the service provider.



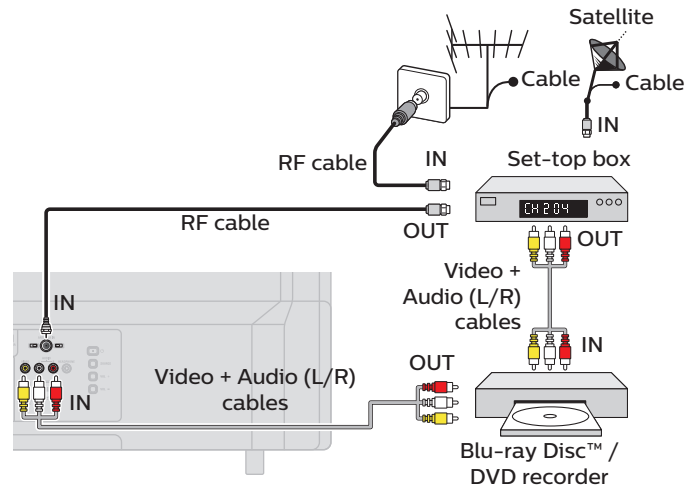
If connecting cable / satellite / IPTV set-top box using an HDMI cable

If the TV is connected to a cable / satellite set-top box via an HDMI cable, make sure you select the correct source by using  (SOURCE).



Connecting a cable / satellite / IPTV set-top box, Blu-ray Disc™ / DVD recorder via composite connectors and analog audio

Do not place your recorder too close to the screen because some recorders can be susceptible to harmful interference from the TV.



Note(s)

- If you have any question about the DTV's antenna, visit www.antennaweb.org for further information.
- Depending on your antenna system, you may need different types of combiners (mixers) or separators (splitters) for HDTV signal. The minimum RF bandpass on these devices is 2,000 MHz or 2 GHz.
- For your safety and to avoid damage to this unit, please unplug the RF coaxial cable from the antenna input jack before moving the unit.
- If you did use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than a set-top box or inside antenna.
- To turn on your reception source easily between antenna and cable, install an antenna selector.
- If you are not receiving a signal from your cable service, contact the cable provider.

Plugging in the AC power cord

Make sure that the AC power cord must be plugged to an AC outlet after all the necessary connections are made.

! Caution(s)

- Connect the analog audio signal cables from the external device to the analog audio L/R input jacks.
- If you have an amplifier, connect the HDMI cable to the HDMI input via your amplifier.

Note(s)

- Each time you plug in the AC power cord, no operations will be performed for several seconds. This is not a malfunction.

No included cables are used with these connections:

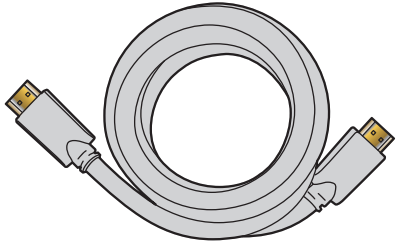
- Please purchase the necessary cables at your local store.

Before you connect the AC power cord:

Be sure other devices are connected properly before plugging in the AC power cord.

Selecting your connection quality

HDMI - Highest quality

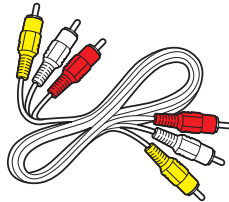


Supports high-definition digital signals and gives highest picture and sound quality. Video and audio signals are combined in one cable. You must use HDMI for full high-definition video and to enable HDMI control (HDMI CEC).

Note(s)

- Philips HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of digital rights management that protects high-definition content in Blu-ray Disc™ or DVDs.
- The HDMI-ARC connector on the TV features HDMI-ARC functionality. This allows output of TV audio to an HDMI-ARC-compliant device.

Composite - Basic quality

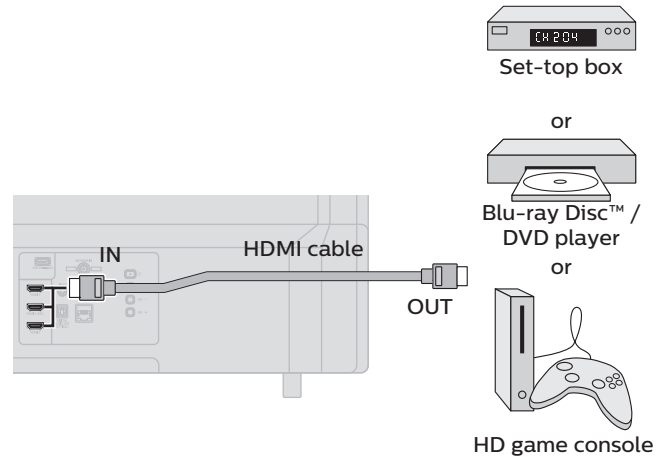


For analog connections. Composite video / Audio analog cable usually combine a yellow video cable with red / white audio (L/R) cables.

Connecting your devices

HDMI digital connection

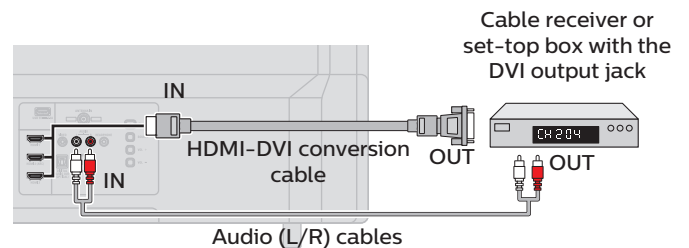
HDMI connection offers the highest picture quality. HDMI (High-Definition Multimedia Interface) transports high-definition digital video and multi-channel digital audio through a single cable.

**Note(s)**

- If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the **HDMI EDID Version**. (Refer to **HDMI EDID Version** → p. 15)
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i / 480p / 720p / 1080i, 1080p, 2160p 24/30/60 Hz of video signals, 32 kHz / 44.1 kHz and 48 kHz of audio signals.
- This unit accepts LPCM, AC-3, DD+ audio signal.
- This unit accepts only signals in compliance with CTA-861-G.

HDMI-DVI connection

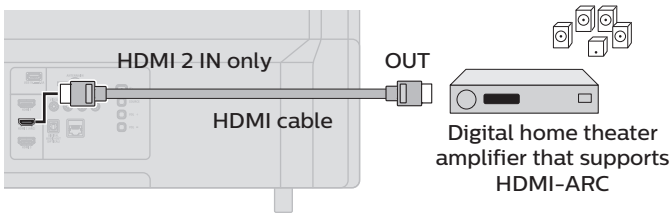
This unit can be connected to a device that has a DVI terminal. Use an HDMI-DVI conversion cable for this connection and it requires audio cable for analog audio signal as well.

**Note(s)**

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i, 480p, 720p, 1080i, 1080p and 2160p video signals. When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.
- HDMI-DVI connection requires separate audio connections as well and the audio signals are output as analog (L/R) audio.
- DVI does not display 480i image which is not in compliance with CTA-861-G.

HDMI-ARC connection

HDMI-ARC allows you to use HDMI control to output TV audio directly to a connected audio device, without the need for an additional digital audio cable.



Note(s)

- The HDMI 2 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to an HDMI home theater system.
- Be sure that the device is HDMI CEC and ARC compliant and that the TV is connected to the device using an HDMI cable attached to HDMI-ARC connectors.

HDMI EDID Version

If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the HDMI mode following the instructions below.

- 1 Press **HOME** to display the Home menu.
- 2 Use **▲▼◀▶** to select **Settings**, then press **OK**.
- 3 Use **▲▼** to select **Inputs**, then press **OK**.
- 4 Scroll down to **HDMI EDID Version** and select **HDMI1**, **HDMI2 (ARC)** or **HDMI3**, then press **OK**.
- 5 Select **EDID 2.0** for 4K@60 Hz or HDR signals. Select **EDID 1.4** for legacy devices that output 4K@30 Hz or less with no HDR.

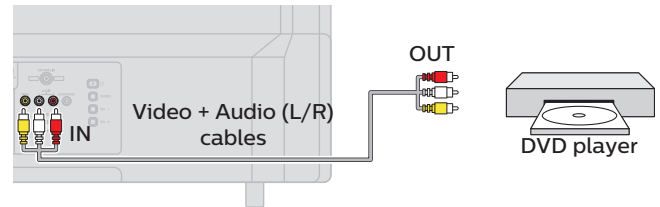
Note(s)

- **EDID 1.4** is used for legacy devices that can output in 2K or 4K @30 Hz. **EDID 2.0** is used for modern devices that can output 4K @ 60Hz and 4K with HDR 10.

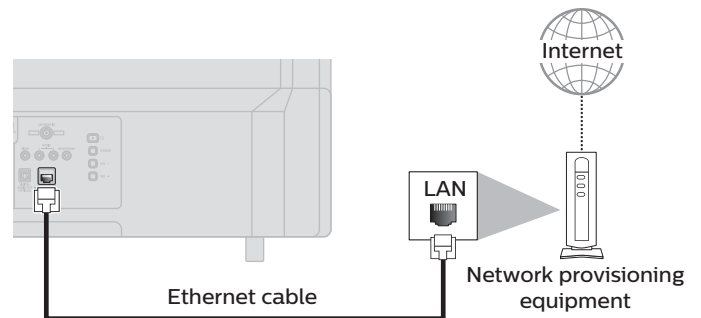
Composite analog video connection

Composite analog video connection offers standard picture quality for video devices connected to the unit.

If you connect to the unit's composite video (VIDEO) input jack, connect audio cables to the audio (L/R) input jacks. When the audio is monaural, then only connect to the audio L input jack.



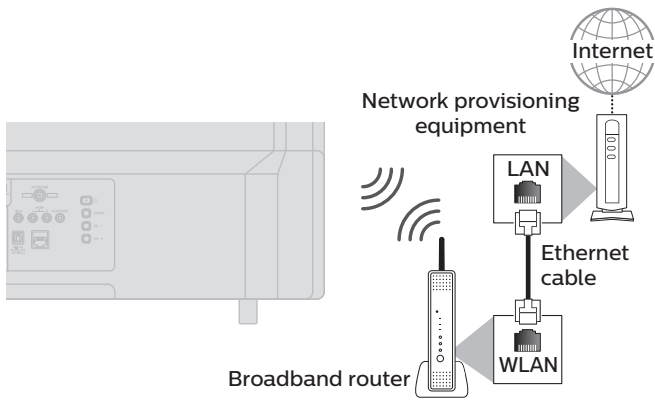
Connecting the TV to the internet using an Ethernet cable



Note(s)

- Please purchase shielded Ethernet cables at your local store and use them when you connect to network equipment.
- After connecting an Ethernet cable, set up necessary network settings. **Network** → p. 22
- Do not insert any cable other than an Ethernet cable to the Ethernet port to avoid damaging the unit.
- If your telecommunications equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your telecommunications equipment (modem, etc.) has broadband router functions but there is no vacant port, then add a hub.
- For a broadband router, use a router which supports 10BASE-T / 100BASE-TX.
- Do not connect your PC directly to the Ethernet port of this unit.

Connecting the TV to the internet using a wireless LAN



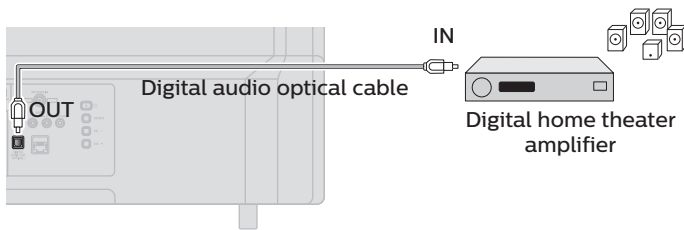
Note(s)

- After you make the wireless connection, set up the necessary network settings. **Network** → p. 22
- Use a wireless LAN Access Point (AP) (e.g. broadband wireless router) which supports IEEE 802.11 a/b/g/n/ac. (n is recommended for stable operation of the wireless network.)
- This unit does not support Ad-hoc mode.
- Other radio devices or obstacles may cause interference to the wireless network connection.

Digital audio output connection

If you connect this unit to an external digital audio device, you can enjoy multi-channel audio like 5.1ch digital broadcasting sound.

Use a digital audio optical cable to connect the unit to external digital audio devices.



Note(s)

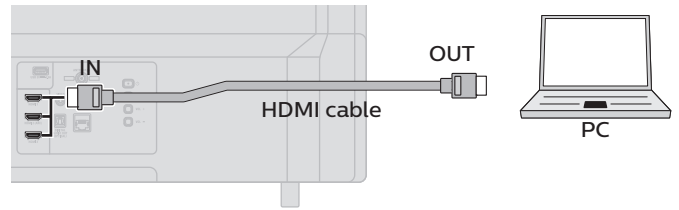
- To enable audio output from the optical cable, go to **Settings > Sound > Speakers**. It must be set to **Digital audio output**.

PC connection

PC content can also be sent to the TV via any Google Chromecast compatible application. See https://store.google.com/product/chromecast_apps for details.

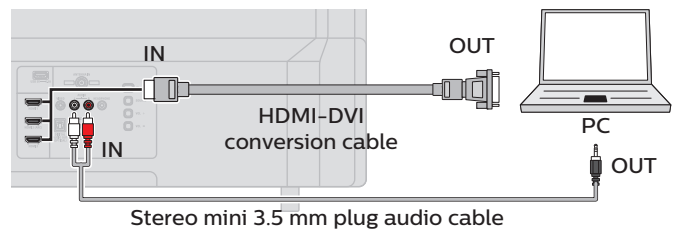
HDMI connection

This unit can be connected to your PC that has an HDMI terminal. Use an HDMI cable for this digital connection.



HDMI-DVI connection

This unit can be connected to your PC that has a DVI terminal. Use an HDMI-DVI conversion cable for this video digital connection and it requires stereo mini 3.5 mm plug audio cable for analog audio signal as well.



The following PC-input video signals can be displayed:

Format	Resolution	Refresh rate
VGA	640 x 480	60 Hz
SVGA	800 x 600	
XGA	1,024 x 768	
WXGA	1,280 x 768	24/30/60 Hz
	1,360 x 768	
FHD	1,920 x 1,080	
UHD	3,840 x 2,160*	
	4,096 x 2,160*	

Other formats or non-standard signals will not be displayed correctly.

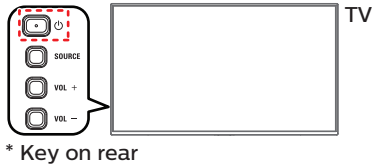
* When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.

Note(s)

- Please purchase a HDMI-DVI conversion cable that has a ferrite core.
- The following operations may reduce noise.
 - Attach a ferrite core to the AC power cord of your PC.
 - Unplug the AC power cord and use the built-in battery of your portable / laptop PC.
- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i, 480p, 720p, 1080i, 1080p and 2160p video signals only when using the HDMI connection and HDMI-DVI connection. When connecting with HDMI-DVI, the operation is maximum 2160p@30 Hz.
- HDMI-DVI connection requires separate audio connections as well and the audio signals are output as analog (L/R) audio.
- DVI does not display 480i image which is not in compliance with CTA-861-G.

3 Use your TV

Switching on your TV and putting it in standby mode



* Key on rear

Remote control



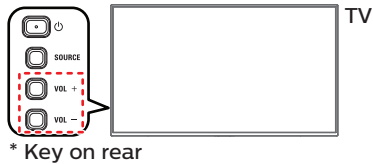
Turns the TV on and off of standby.

- Press **POWER** on the TV or the remote control.

Note(s)

- Energy consumption contributes to air and water pollution. When the AC power cord is plugged in, your TV consumes energy with a very low standby power consumption.

Adjusting volume



* Key on rear

Remote control



To decrease or increase volume

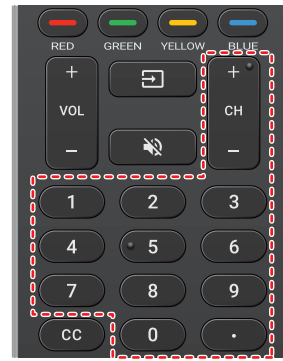
- Press **VOL + / -** on the TV or the remote control.
VOL + : Volume up
VOL - : Volume down

To mute or unmute sound

- Press **MUTE** on the remote control to mute the sound.
- Press **MUTE** again or **VOL + / -** to recover the original sound.

Switching channels

Remote control



To select channels by using CH + / -

- Press **CH + / -** on the TV or the remote control.

To select channels by using the NUMBER buttons

Digital TV operation

- For digital channels, press a number followed by a dot “.” and the corresponding sub channel number.
 - When selecting digital channel 11.1
 Be sure to press “.” before entering the subchannel number.



Cable / NTSC (Analog) TV operation

- When selecting cable or analog channel 11



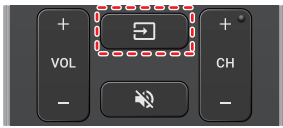
Note(s)

- To select the non-memorized channels, use **the NUMBER buttons**.
- **No signal** will appear on the TV screen after the subchannel broadcast is over.

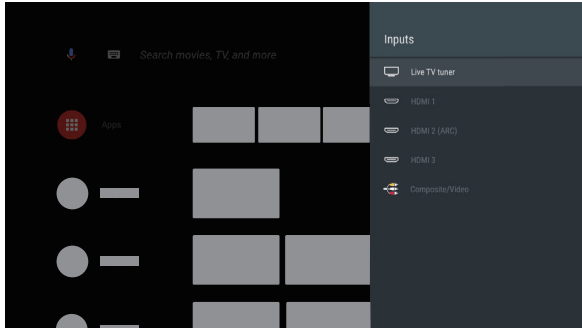
Watching channels from an external device

Switching each input mode can easily switch with the remote control between TV and external devices when they are connected to the unit.

- 1 Turn on the set-top box or the connected device.



- 1 Press **SOURCE** and use **▲▼** to select the set-top box or the connected device and wait a few seconds till the picture appears.



- 2 Use the remote control of the set-top box or the connected device to select channels.

Access the Home menu

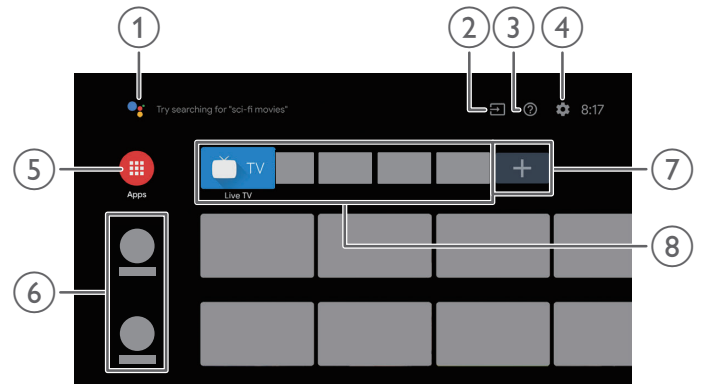
- 1 Press **HOME**.



Guide to Home menu

From the Android TV home screen, you can easily access movies, TV shows, music, apps, input devices, settings, and more.

To go back to the home screen at any time, press **HOME** on your remote control.

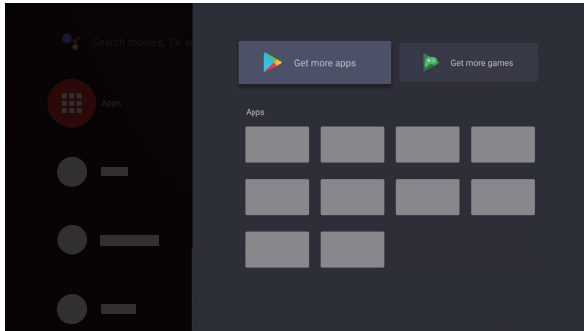


- 1 **Google Assistant** : Activates your personal Google Assistant. Type or speak to search for content, control your TV, manage your smart home devices, and more.
- 2 **Source** : Toggle inputs between your favorite source devices.
- 3 **e-Help** : Online help videos and tutorials
- 4 **Settings** : Configure your television settings and connect to wireless devices.
- 5 **Apps** : Apps gallery
You must sign in with a Google account to visit and download apps from the Google Play store.
- 6 **How to rearrange channels** : Within the row, you want to rearrange, press **◀** on your remote control. To rearrange channels, Select arrow (**▲▼**) icon, and press **OK**. Use **▲▼** to move up or down. Press **OK**. To delete channels, Select minus (**-**) icon, and press **OK**.
- 7 **Install additional apps** : Select the "+" and click on the Google Play Store to expand your entertainment library.
- 8 **How to move or delete applications** : Select the application and long press **OK** on your remote control. To move, Select **Move** in the list, and press **OK**. Use **◀▶** to move left or right. Press **OK**. To delete, Select **Remove from favorites** in the list, and press **OK**.

Apps

You can download the apps.

- 1 Press **HOME** and use **▲▼◀▶** to select **Apps**, then press **OK**.



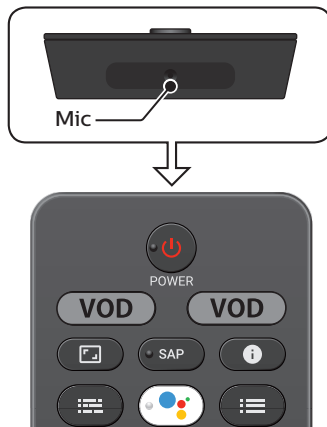
- 2 Search for the app or type of app you want to install.
- 3 Select the app.
- 4 Select install.

Google Assistant



Press **Google Assistant** to launch Google Assistant. You can operate what you want to do and what you want to ask by hands-free.

Mic



- 1 Activating the Google Assistant on the home screen will launch a Google Query.
 - Activating the Google Assistant within an app will allow you to search and find information only related to a specific app.
- 2 Speak into the microphone located on the top of your remote control.

Speech examples may be displayed depending on your model.

Refer to the Google web site (<https://support.google.com/assistant/>) for more information on what to ask.

Picture format

Display modes can be selected when your TV receives a 16:9 or 4:3 video signal.

Three types of display modes can be selected for a PC input signal.

Press **FORMAT** repeatedly to switch the TV aspect ratio.



4:3	Displays a 4:3 picture at its original size. Sidebars appear on both edges of the screen.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.
Full	Displays a scaled 16:9 picture. Bars appear on both the upper and lower portions of the screen depending on the type of video signal.
Unscaled	Displays a 16:9 picture at its original size.

TV screen information

You can display the currently selected channel or other information.

- 1 Press **INFO**.



Note(s)

- The information display will automatically disappear in 5 seconds. This information is for cable/antenna broadcasts only. Information for streaming apps will vary on the app.

Using options menu

You can access to some TV settings directly by using **≡ OPTIONS**.

- 1 Press **≡ OPTIONS** to display options menu, then press **OK**.



- 2 Use **▲▼◀▶** to select a desired setting, then press **OK**.

Picture style

Following settings can be configured.

- Standard
- Natural
- Vivid
- Sports
- Movie
- Game
- Energy saving

Picture ➞ p. 25

Picture format

The items displayed depending on the input terminal and the reception resolution are different.

- 4:3
- Wide screen
- Full
- Unscaled

Picture ➞ p. 25

Closed captions

This item displays only when captions are on the streaming.

- Off
- On
- CC w/ mute

Multi audio

- Language list

This item is displayed when DTV broadcasting is received.

- Mono
- Stereo
- SAP

This item is displayed when ATV broadcasting is received.

Speakers

- TV speakers
- Digital audio output

Power

Sleep time

- Off
- 10 minutes
- 20 minutes
- 30 minutes
- 60 minutes
- 90 minutes
- 120 minutes
- 180 minutes
- 240 minutes

Picture off

Select **Picture off**, the TV screen is switched off, to switch the TV screen back on, press any key on the remote control.

Settings

See **Getting more from your TV** ➞ p. 21

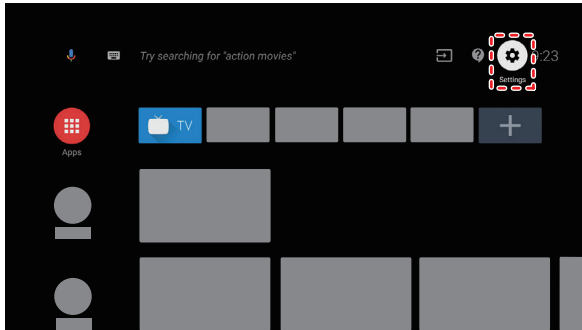
4 Getting more from your TV

This section describes the overview of the **Settings** menu displayed when you press **HOME** and use **▲▼◀▶** to Select **Settings**. The **Settings** menu consists of the function setting items below.

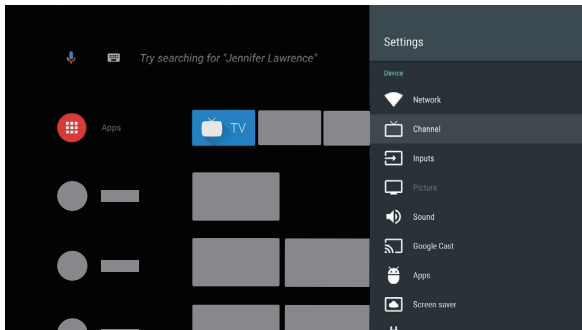
- 1 Press **HOME** to display the Home menu.



- 2 Use **▲▼◀▶** to select **Settings**, then press **OK**.



- 3 Use **▲▼◀▶** to select the desired menu and an item, then press **OK**.



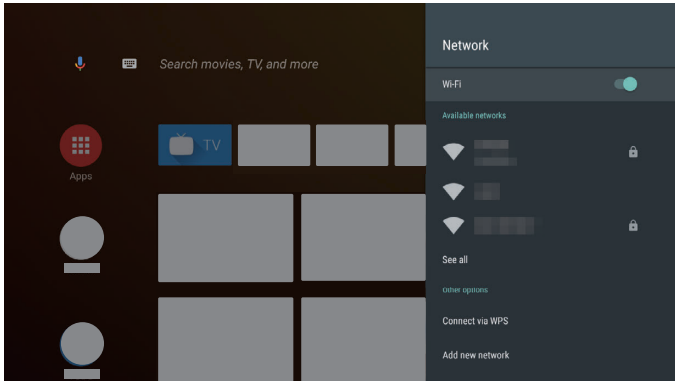
Device	⇒ p. 22
Preferences	⇒ p. 28
Remote & accessories	⇒ p. 30
Personal	⇒ p. 30
Accounts	⇒ p. 31

Device

Network

Setup network connection settings in order to use apps or network upgrade functions.

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Network**, then press **OK**.



Wi-Fi

On	Wireless if you have a router with WPS function, select On to connect to the internet.
Off	Wired if you connect to an Ethernet cable, select Off to connect to the internet.

Connect via WPS

Please select if you are using WPS compatible wireless router.

- 1 Press the WPS button on your router.

Add new network

Add new network: You can add wireless network.

Scanning always available

Let Google's location service and other apps scan for networks, even when Wi-Fi is off.

Connected

Display the connection status of the wired LAN.

Proxy settings

Set Proxy manually.

IP settings

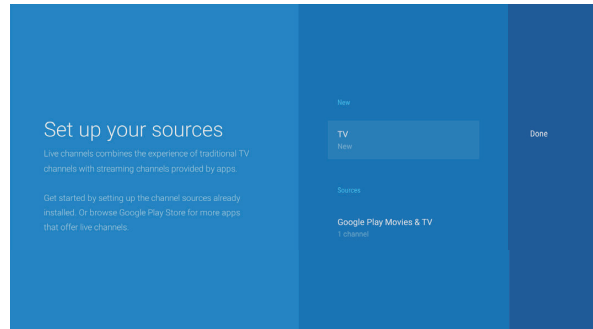
Configure the IP setting for your network connection.

Channel

Be sure the RF cable is correctly connected to this unit and you are registered with your cable TV provider when you install cable channels.

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼◀▶** to select **Channel**, then press **OK**.

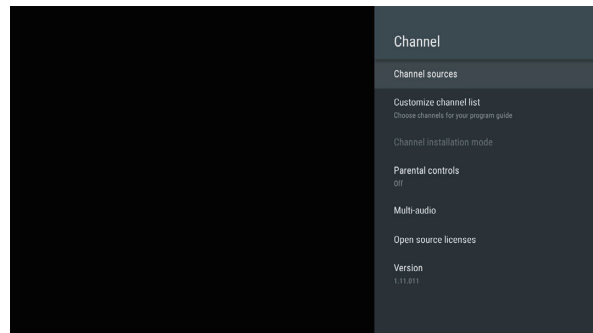
Channel sources



Parental controls

You can restrict your children from watching certain programs or channels, by setting parental controls using a rating lock.

- 1 Use **▲▼** to select **Parental controls**, then press **OK**.



- 2 Use the **NUMBER** buttons to enter the 4-digit numbers for your PIN code.
 - When the PIN code is not set, register and confirm the PIN code.
 - When the PIN code is correct, **Parental controls** menu is displayed.

See the following description for setting each item.

Note(s)

- When you select the higher rating and set it to **lock**, the lower ratings will be blocked automatically.
- **RRT5 setting** will be available when the unit receives a digital broadcast using the new rating system.
- To block any inappropriate programs, set your limits in **United States, United States (Film ratings)** and **RRT5 setting**.
- For the United States, the unit may download the region ratings lock table, if required.
- The Canadian rating systems on this unit are based on CEA-766-A and CRTC policy.

Setting TV and film ratings

Film ratings lock is the rating system created by MPAA. TV ratings lock has controlled access to individual programs based on their age ratings and content rating.

3 Use ▲▼ to select **Program restrictions**, then press **OK**.

4 Use ▲▼ to select **Ratings**, then press **OK** repeatedly to switch between block and view.

United States (Film ratings)	United States	Description
UNRATED	TV-UNRATED	No rating
NR	TV-NONE	No rating
-	TV-Y	Appropriate for all children
-	TV-Y7	Appropriate for all children 7 and older
G	TV-G	General audience
PG	TV-PG	Parental guidance suggested
PG-13	-	Unsuitable for children under 13
-	TV-14	Unsuitable for children under 14
R	-	Restricted under 17 requires accompanying parent or adult guardian
NC-17	-	No one under 17 admitted
X	TV-MA	Mature audience only

Rating types and restriction levels

High restrictions
Content suitable for children
Medium restrictions
Content suitable for older children
Low restrictions
Content suitable for teens

United States	High	Medium	Low
TV-Y			
TV-Y7	✓		
TV-G			
TV-PG	✓	✓	
TV-14	✓	✓	
TV-MA	✓	✓	✓

United States (Film ratings)	High	Medium	Low
G			
PG			
PG-13	✓	✓	
R	✓	✓	✓
NC-17	✓	✓	✓
X	✓	✓	✓

Canadian English or Canadian French ratings

You can select the rating for Canadian English or Canadian French broadcasting.

Program restrictions > Rating systems > See all rating systems and check the Canada and Canada (French) checkboxes from the list. Otherwise Canada's rating will not be effective.

3 Use ▲▼ to select **Canada** or **Canada (French)**, then press **OK**.

4 Use ▲▼ to select the desired rating, then press **OK** repeatedly to switch between block and view.

- indicates that the rating is locked (Blocked).
- indicates that the rating is not locked (Viewable).

Canada	Canada (French)	Description
E		Exempt program
C	-	For all children
C8+	-	For all children 8 and older
G		General audience
-	8 ans+	Unsuitable for ages under 8
PG	-	Parental guidance suggested
-	13 ans+	Unsuitable for ages under 13
14+	-	Unsuitable for ages under 14
-	16 ans+	Unsuitable for ages under 16
18+	18 ans+	Adult audience only

Note(s)

- The V-Chip can block non rated programs as per "CEA-608-E sec. L.3". If the option to block **UNRATED, NR, TV-UNRATED, TV-NONE** or **E** programs are used in **United States (Film ratings), United States, Canada** or **Canada (French)** accordingly "unusual results may occur and the unit may not receive emergency bulletins or other types of programming": / Emergency bulletins (Such as EAS messages, weather warnings and others) / Locally originated programming / News / Political / Public service announcements / Religious / Sports / Weather.

Change pin

- 1 Use ▲▼ to select **Change pin**, then press **OK**.
- 2 Press the **NUMBER buttons** to enter the current 4-digit PIN code.
- 3 Press the **NUMBER buttons** to enter the new 4-digit PIN code.
 - Enter PIN code again to confirm.

Note(s)

- Make sure new PIN code and confirm PIN code must be exactly the same. If they are different, the space is cleared for reentering.

Multi audio

You can select the audio language while your TV is receiving the digital broadcasting.

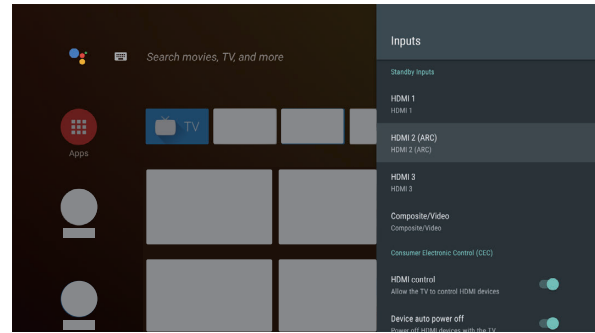
- 1 Use ▲▼ to select **Multi audio**, then press **OK**.

Multi audio

To select the language according to your preference.
(It differs depending on the program.)

Inputs

Connected Input(s) / Standby Input(s)



Consumer Electronic Control (CEC)

HDMI control

Allow the TV to control HDMI devices.

Device auto power off

Power off HDMI devices with the TV.

TV auto power on

Power on the TV with HDMI devices.

HDMI EDID Version

Version of HDMI EDID.

Select **EDID 2.0** for 4K@60 Hz or HDR signals. Select **EDID 1.4** for legacy devices that output 4K@30 Hz or less with no HDR.

Picture

○ Picture style

4:3	Displays a 4:3 picture at its original size. Sidebars appear on both edges of the screen.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.
Full	Displays a scaled 16:9 picture. Bars appear on both the upper and lower portions of the screen depending on the type of video signal.
Unscaled	Displays a 16:9 picture at its original size.

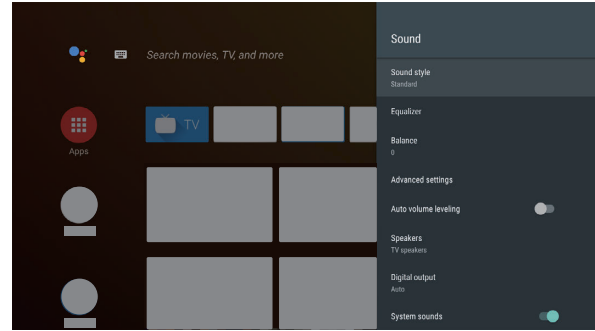
- Backlight
- Contrast
- Brightness
- Color
- Tint
- Sharpness
- Film mode
- Picture format
- Advanced settings
- Reset to default

Advanced settings

- Dynamic contrast
- 4K UHD Upscaling
- Macro Dimming
- Noise reduction
- MPEG artifact reduction

Sound

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Sound**, then press **OK**.



- 3 Use **▲▼◀▶** to select the item you want to adjust, then press **OK**.

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

Sound style	To set your TV to a predefined sound setting. When you adjust the following settings (Equalizer and Auto volume leveling).	
	Standard	For normal TV viewing.
	Vivid	Enhanced sound.
	Sports	Clear sound for high action.
	Movie	Powerful sound settings for a cinematic experience.
	Music	Optimized for music playback.
	News	Set the anchor's voice at a comfortable volume.

Adjust the tonal quality for each frequency.

Equalizer	Cursor ◀	Cursor ▶
	To adjust each level of tonal quality Press OK to go back to the previous menu.	

Adjust the speakers to suit your listening preference.

Balance	Cursor ◀	Cursor ▶
	To adjust the balance of the right and left speakers	

This selects sound modes for more spatial or surround sound reproduction.

Advanced settings	Dialog enhancement	Off	To set Dialog enhancement to off
		On	To set Dialog enhancement to on
	Bass enhancement	Off	To set Bass enhancement to off
		On	To set Bass enhancement to on
	Surround sound	Off	To set Surround sound to off
		On	To set Surround sound to on

This function keeps a constant Loudness differential between the TV commercials and the programs.

Auto volume leveling	Off	To remove the Auto volume leveling
	On	To reduce volume differences between the TV commercials and the programs

You can select the audio output from the unit's speakers or not. If your amplifier is HDMI link function compatible and connected by an HDMI cable to this unit, some sound operations such as volume up can be changed by using this unit's remote control. Make sure **HDMI control** is set to **On**. ➡ p. 24

Speakers	TV speakers	Sound is output from TV speaker.
	Digital audio output	Use a digital audio optical cable to connect the unit to external digital audio devices.

You can set the digital audio output format from SPDIF/ARC.

Digital output	<input type="radio"/> Auto <input type="radio"/> Bypass <input type="radio"/> PCM <input type="radio"/> Dolby Digital Plus <input type="radio"/> Dolby Digital
----------------	--

System sounds	Off	To turn off the operation sound such as click.
	On	When clicking sounds.

Google Cast

You can check the license and version number.

Apps

You can check the downloaded apps.

Screen saver

Screen saver

- Turn screen off
 - Backdrop
 - Colors
-

When to start

- 5 minutes
 - 15 minutes
 - 30 minutes
 - 1 hour
 - 2 hours
-

Put device to sleep

- 30 minutes
 - 1 hour
 - 3 hours
 - 6 hours
 - 12 hours
 - Never
-

Start now

Screensaver will start immediately.

Power

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Power**, then press **OK**.
- 3 Adjust the following items.

Sleep time

- Off
- 10 minutes
- 20 minutes
- 30 minutes
- 60 minutes
- 90 minutes
- 120 minutes
- 180 minutes
- 240 minutes

Picture off

Select **Picture off**, the TV screen is switched off, to switch the TV screen back on, press any key on the remote control.

Storage & reset

Perform a factory reset

About

You can check system update and TV registration information.

System update

Check for update

Device name

You can name it to help identify it when casting PHILIPS 4K television or connecting it from another device.

Restart

Restart the TV.

Status

Network, serial numbers and other information

Legal information

Confirm legal information.

Model

Confirm Model

Version

Confirm Version

Software version

Confirm Software version

Netflix ESN

Confirm Netflix ESN

Android security patch level

Confirm Android security patch level

Kernel version

Confirm Kernel version

Build

Confirm Build

Preferences

Date & time

Automatic date & time

Use network-provided time or off

If it is set to off, please manually set the date and time.

Set time zone

Select your time zone

Use 24-hour format

Set the time to display in a 12 or 24-hour format

Language

You can set the language for the on-screen display.

- 1 Use ▲▼ to select **Language**, then press **OK**
- 2 Use ▲▼ to select **English**, **Español** or **Français**, then press **OK**.

Note(s)

- If you need the English menu instead of the Spanish or French menu's, press **⏠ (HOME)**.
Use ▲▼◀▶ to select **Settings**, then press **OK**.
Use ▲▼ to select **Language**, then press **OK**.
Use ▲▼ to select **English**, then press **OK**.
Press **⏠ (HOME)** to exit the Home menu.

Retail mode

Setting mode used by dealer

Keyboard

Perform the keyboard setting.

Home screen

Set the home screen.

Customize channels

Enable video previews

Enable audio previews

Reorder apps

Reorder games

Android TV Home

Android TV Core Services

Search

- Accounts
- View permissions
- Searchable apps
- SafeSearch filter
- Block offensive words
- "Ok Google" detection
- Open source licenses

Google

- Accounts
- View permissions
- Searchable apps
- SafeSearch filter
- Block offensive words
- "Ok Google" detection
- Open source licenses

Speech

- Accounts
- View permissions
- Searchable apps
- SafeSearch filter
- Block offensive words
- "Ok Google" detection
- Open source licenses

Note(s)

- For Search and Speech, once the relative app on the Google side is updated upon sign-in, "Google" will be displayed for all items described below when selecting either Search, Google, or Speech.

Search

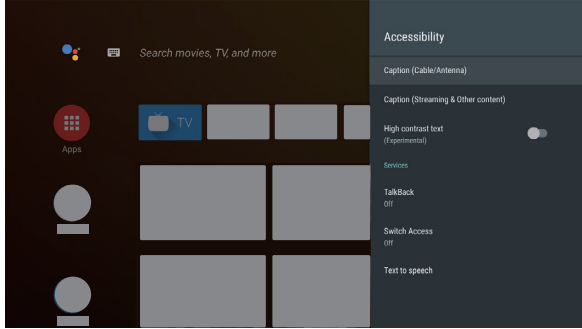
- Accounts
- Searchable apps
- SafeSearch filter
- Temperature unit
- Open source licenses

Speech

- Language
- Block offensive words

Accessibility

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Accessibility**, then press **OK**.



- 3 Adjust the following items.

Caption (Cable/Antenna)

Display	Off	Closed caption is not displayed.
	On	Closed caption is always displayed.
	CC w/ mute	Closed caption is displayed when the sound is off.
Caption service	CC-1 and T-1	The primary closed captions and text services. The closed captions or text is displayed in the same language as the program's dialog (up to 4 lines of script on the TV screen).
	CC-3 and T-3	Serve as the preferred data channels. The closed captions or text is often a secondary language.
	CC-2, CC-4, T-2 and T-4	Rarely available and broadcasters use them only in special conditions, such as when CC-1 and CC-3 or T-1 and T-3 are not available.

In addition to the basic closed caption, DTV has its own closed caption called digital caption service. Use this menu to change the settings for digital caption service.

Advanced selection	CS-1 to CS-6	Select one of these before changing any other item in Caption (Cable/Antenna) menu. Choose CS-1 under normal conditions.
--------------------	--------------	--

Caption (Streaming & Other content)

Display	Off	Closed caption is not displayed.
	On	Closed caption is always displayed.

You can choose the size, font, color, background and other characteristics of the caption text.

Language	<input type="radio"/> Default <input type="radio"/> English <input type="radio"/> Español <input type="radio"/> Français
----------	---

Text size	<input type="radio"/> Very small <input type="radio"/> Small <input type="radio"/> Normal <input type="radio"/> Large <input type="radio"/> Very large
-----------	--

Picture display

Text font
(Font family, Text size, Text color and Text opacity)

Text edge
(Edge color and Edge type)

Background
(Background color and Background opacity)

- Review your setting choice made above by looking in the bottom left corner of the displayed setting box (not all selections show the differences selected).

Note(s)

- Caption service that you can switch differs depending on the broadcast description.
- Closed captioning service may not be controlled by this unit's menu options if you are watching television through an external cable or satellite set-top box. In which case you will need to use the menu options on the external set-top box to control closed captioning.
- The captions do not always use correct spelling and grammar.
- Not all TV programs and product commercials include closed caption information. Refer to your area TV program listings for the TV channels and times of closed caption shows. The captioned programs are usually noted in the TV listings with service marks such as **CC**.
- Not all captioning services are used by a TV channel during the transmission of a closed caption program.
- Closed caption will NOT be displayed when you are using an HDMI or a component connection.
- To show the closed caption on your TV screen, broadcast signal must contain the closed caption data.
- Not all TV programs and commercials have the closed caption or all types of the closed caption.
- Caption's and text may not exactly match the TV voice.
- Changing channels may delay the closed caption for a few seconds.
- Adjusting or muting the volume may delay the closed caption for a few seconds.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a malfunction.
- The caption or text characters will not be displayed while the Main menu or functions display is shown.
- If a black box appears on the TV screen, this means that the closed caption is set to the text mode. To clear the box, select **CC-1**, **CC-2**, **CC-3** or **CC-4**.
- If the unit receives poor quality television signals, the captions may contain errors or there might be no captions at all. Some possible causes of poor quality signals are:
 - Automobile ignition noise
 - Electric motor noise
 - Weak signal reception
 - Multiplex signal reception (ghosts or screen flutter)
 - Data dropout and pixelation (for DTV only)
- The unit retains the closed caption setting if the power fails.
- When the unit receives special effects playback signal (e.g. search, slow and still) from a VCR's video output channel (ch3 or ch4), the unit may not display the correct caption or text.
- The EUT setting that satisfies § 79.102 (e) is as follows:
 - Font: Mono-font
 - Character size: Large

High contrast text

On / Off

TalkBack

TalkBack is the Google screen reader included on Android devices. TalkBack gives you spoken feedback so that you can use your device without looking at the screen.

Switch Access

Switch Access lets you interact with your Android device using one or more switches instead of the touch screen. Switch Access can be helpful for people with dexterity impairments that prevent them from interacting directly with the Android device.

Text to speech

Text to speech output settings.

To set On / Off of this function, select and set **TalkBack**.

Remote & accessories

Add accessory

Searching for Bluetooth accessories...

Personal

Location

Location status

- Use Wi-Fi to estimate location
- Off

Google Play services

- Force stop
- Uninstall updates
- Enable or Disable
- Storage used
- Clear data
- Clear cache
- Clear defaults
- Notifications
- Permissions

Security & restrictions

Unknown sources

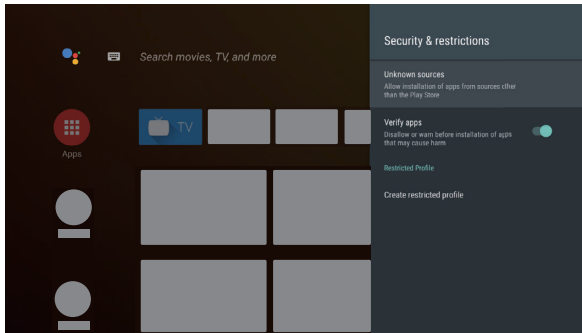
Allow installation of apps from sources other than the play store.

Verify apps

Disallow or warn before installation of apps that may cause harm.

Restricted Profile

Create restricted profile



To set up the restricted profile.

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Security & restrictions**, then press **OK**.
- 3 Use **▲▼** to select **Create restricted profile**, then press **OK**.
- 4 Enter a PIN code with the remote control.
- 5 In the list of available apps, select an app and press **OK** to allow or not allow this app.
- 6 Press **← (BACK)** to go back one step.

Now you can enter the restricted profile.

With the PIN code, you can always change the PIN code or edit the list of allowed or not allowed apps.

Enter restricted profile

To enter switch to the restricted profile.

- 1 Press **HOME** and use **▲▼◀▶** to select **Settings** then press **OK**.
- 2 Use **▲▼** to select **Security & restrictions**, then press **OK**.
- 3 Use **▲▼** to select **Enter restricted profile**, then press **OK**.
- 4 After waiting for a while, it switches to the restricted home screen.

To return to the unrestricted mode, select **Exit restricted profile** from the **Security & restrictions** screen and enter the PIN code.

Allowed apps

Please select an available application.

Change pin

To change PIN code, please select here.

Delete restricted profile

Usage & Diagnostics

On / Off

Google account

[Account]

Register your Google Account.

You can use multiple Google Accounts on your TV.

Unleash your television's true potential. With a Google® account you can effortlessly expand your entertainment library via the Google Play Store and Google Play app and also keep apps up-to-date. You can enjoy this Philips Android TV even without a Google account. For example, you can watch Live TV programming, streaming applications such as Netflix, VUDU, YouTube and more.

Note(s)

- Simply login with your Google account.
- It is recommended to create a new Google account specifically for your Android TV. A new account will prevent interference and syncing of your personal account. To create a new Google account, visit <http://accounts.google.com/signup> on your smartphone, tablet, or computer.

5 Useful tips

FAQ

Question	Answer
<p>My remote control does not work. What should I do?</p>	<ul style="list-style-type: none"> • Check the antenna or cable connection to the main unit. • Check the batteries on the remote control. • Check if there is an obstacle between the infrared sensor window and the remote control. • Test the IR signal output use IR signal check. → p. 35 If okay, then possible infrared sensor trouble. • Aim the remote control directly at the infrared sensor window on the front of the unit. • Reduce the distance to the unit. • Re-insert or replace the AAA batteries with their polarities (+/–) as indicated on the remote control battery area. • When there is an infrared-equipped device such as PC near this unit, it may interrupt the remote control signal on this unit. Move the infrared-equipped device away from this unit, change the angle of the device's infrared sensor or turn off the infrared communication function.
<p>How come the initial setup appears every time I turn on this unit?</p>	<ul style="list-style-type: none"> • Make sure to complete the initial setup before the unit goes into standby mode.
<p>Why can I not watch some RF signal TV programs?</p>	<ul style="list-style-type: none"> • The selected channel may not be broadcasting. • The selected channel cannot be viewed by the Parental controls setting. → p. 22 • The unit requires some kind of antenna input. An indoor antenna (Digital or VHF / UHF), an external antenna (Digital or VHF / UHF) or an RF coaxial cable from your wall cable or set-top box needs to be plugged into the unit.
<p>How come there is no image from the connected external devices?</p>	<ul style="list-style-type: none"> • Check if the correct input is selected by pressing ☐ (SOURCE). → p. 18 • Check the antenna, cable or other input connection to the unit.
<p>When I enter a channel number, why does it change automatically?</p>	<ul style="list-style-type: none"> • Many digital channels have alternate channel numbers. The unit changes the numbers automatically to the ones signifying the broadcasting station's channel number. These basic numbers used for the previous analog broadcasts. (e.g., input digital ch# 30 automatically changes to digital ch# 8.1)
<p>Why are captions not displayed entirely? Or why are captions delayed behind the dialog?</p>	<ul style="list-style-type: none"> • Closed captions that are delayed a few seconds behind the actual dialog are common for live broadcasts. Most captioning production companies can display a dialog to maximum of 220 words per minute. If a dialog exceeds that rate, selective editing is used to insure that the closed captions remain up-to-date with the current TV screen dialog.
<p>How can I set the clock?</p>	<ul style="list-style-type: none"> • From the Android TV home screen, select Settings in the upper right of the screen. Scroll down to Preferences and select Date & time. Please set it automatically or manually.

Troubleshooting tips

If the unit does not perform properly when operated as instructed in this manual,

Please check the following Troubleshooting tips and all connections once before calling for service.

Power

No power

- Make sure the AC power cord is plugged in.
- Make sure that the AC outlet supplies the proper voltage, plug another electrical appliance into the AC outlet to ensure that the AC outlet operates normally.
- If a power failure occurs, unplug the AC power cord for 1 minute to allow the unit to reset itself.

Remote

Control buttons do not work.

- Do NOT press more than one button at the same time.
- Ensure that no buttons on the remote control are depressed and move freely.
- Re-insert or replace the AAA batteries with their polarities (+/-) as indicated on the remote control battery area.

Universal remote control does not work properly.

- Refer to the user manual of the universal remote control for the Philips code.

● (Google Assistant) microphone on the remote control does not work.

- To pair the remote control, refer to the step "6 Connecting your devices" in the Quick start guide and see "How to connect to your Bluetooth® devices".

Performance

Remote response is delayed or sluggish during initial use.

- Your television is automatically, downloading and installing the latest applications, for the best user experience.
- During this time, you may experience a delayed response from your remote control. Upon successful installation, your remote control will operate normally.

Accessibility

Television is speaking prompts out-loud.

- To disable the talkback (text to speech) on your television, press **HOME** on your remote control, navigate to settings icon in the upper right corner of the home screen and select accessibility, select talkback, press **OK** to toggle between on or off.

Picture

Power is on but screen image is off.

- Check if the connection for your source device is properly secured.
- Check if the correct input is selected by pressing **SOURCE**.
- Verify that your HDMI mode, for the input selected matches the resolution output of your source device.
Change source input until you have picture and sound.

Sound

No sound is heard when using the HDMI digital connection.

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.

No sound, distorted sound or incorrect audio sound is heard when using the HDMI-DVI connections.

- Make sure that the analog audio signals from the HDMI-DVI device are connected to the analog audio input L/R jacks.
- When using Composite analog video, make sure that the analog audio (L/R) connectors are mounted into the audio (L/R) input jacks.

Sound intermittent or no sound.

- Check if the audio cable is connected into the unit correctly.

You switch to a different input and the volume changes.

- This unit will memorize the volume level from the last time you adjusted it.
- If the volume of the sound from another device is higher or lower, then the loudness will change.
- Make sure **Auto volume leveling** is set to **On**. → p. 26

Picture & Sound

No sound with distorted picture occurs when using the HDMI digital connection.

- Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.

No picture or sound

- Check if the power is on.
- Check whether all the cables to the unit are connected to the correct output jack on your separate device like Blu-ray Disc™ / DVD recorder.
- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.
- Unplug the AC power cord and wait for about 1 minute, then plug the AC power cord and turn on the unit again.
- Check whether the connection of the antenna or cable / satellite set-top box is connected correctly.
- Make sure that the selected input mode is connected to the working input jack.
- Make sure that the sound is not muted. Press **MUTE** so that the volume bar and current volume level will appear on the TV screen.
- Make sure that the volume is NOT set to **0** or **MUTE**. If so, use **VOL + / -** to adjust to the desired volume.
- Make sure that the headphone is NOT connected to the headphone audio output jack.
- Make sure that the **TV speakers** is NOT set to **Off**.
- Please make sure that the speaker of the TV is not set for **Digital audio output**.
- If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the **HDMI EDID Version**. (Refer to **HDMI EDID Version** → p. 15)

Adjusted Picture or Sound settings are not effective every time the unit is turned on.

- You need to turn off the **Retail mode** setting. → p. 28 (Otherwise, the settings you adjusted will not be memorized after the unit goes into standby mode.)

You see a distorted picture or hear an unusual sound. (Analog TV - NTSC signal)

- You may be getting NTSC (Analog) TV signal (not HDTV signal) interference from electrical appliances, automobiles, motorcycles or fluorescent lights.
- Try moving the unit to another location to see if this is the cause of the problem.

Ghosts, lines or streaks in picture.

- Electrical interference from nearby appliances may affect picture quality.
- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.

Picture poor, sound intermittent or no sound

- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength.

Screen

You switch to a different input and the screen size changes.

- This unit will memorize the viewing mode from the last time you used the particular input modes.

The display image does not cover the entire screen.

- If you are watching TV or using the composite video or HDMI with 480i input, press **FORMAT** repeatedly to switch to various screen modes.

Different color marks on the TV screen

- View other TV channels. The problem might be limited to the broadcasting station, missing data or pixelation due to weak signal strength.

Closed captions

Closed captions are displayed as a white box. No closed captions are displayed in the closed captions-supported program.

- Interference from buildings or weather conditions may cause closed captions to be incomplete if watching analog TV signals.
- Broadcasting station may shorten the program to insert advertisements. The closed caption decoder cannot read the information of the shortened program.

Black box is displayed on the TV screen.

- The text mode is selected for caption. Select **CC-1**, **CC-2**, **CC-3** or **CC-4**.

Software update

A message appears on the screen prompting for software update again.

- When you start up the TV or a net service after executing the software update, a message may appear on the screen prompting for software update again. In this case, please execute the software update. (start from **Settings > About > System update**)

Network

Cannot connect to the network.

- Check if the broadband router and/or modem is correctly connected.
- Check if the Ethernet cable connection is properly made. Turn on the broadband router and/or modem.
- Check the network settings.

Sometimes video quality is poor when using the wireless LAN.

- The wireless network connection quality varies depending on the distance or obstacles (e.g. wall, basement, 2nd floor) between the TV wireless LAN adapter and the wireless router (access point), from other wireless networks, and brand and type of the wireless router (access point). When using the wireless LAN of the TV, it is suggested to place the wireless router as close as possible to the television.

Wireless LAN connection fails or wireless connection is poor.

- Check the installation location of the TV and wireless router (access point). Signal quality may be affected for the following reasons.
 - Interference of other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
 - There are floors or walls between the wireless router and TV.
 - If the problems continue even after checking the above, try making a wired LAN connection.

Cannot use the wireless connection.

- Check if the wireless LAN Access Point (AP) (e.g. wireless router) is oriented properly or not placed too close between them.
- Once you have activated the wireless connection please wait 30 seconds for the connection to be established after turning on the unit, before trying to access network features.

Slow Data Connection or buffering.

- Check the settings between your router and ISP modem or gateway (if applicable).
- Connect to a stable wireless connection from home wireless or wired network.
- The use of mobile hot spots or public wireless connections is not recommended.

Cannot use Netflix feature.

- Check if the network connection is properly made.
- Visit <http://www.netflix.com> on your PC and become a Netflix member.
- Some network services may not be available in your country.

Cannot add movies or TV episodes to the Instant Queue.

- Visit www.netflix.com on your PC.

Even though the speed of the internet connection improves during playback, the picture quality of Netflix streaming movie does not improve.

- The picture quality does not change during playback. It differs depending on the speed of internet connection at the time of loading.

Cannot use VUDU feature.

- VUDU is available only in the United States.
- Check if the network connection is properly made.

Cannot rent or buy movies / TV episodes on VUDU.

- You need to activate the VUDU account. For detailed information, please visit the service providers website at <http://www.vudu.com>
- Log into your account at <http://my.vudu.com> and check your payment information.

The picture quality of a streaming movie (Netflix or VUDU) is poor.

- Check the speed of your internet connection. You need speeds of at least 8 Mbps to this player for high quality uninterrupted playback.

Streaming movie (Netflix or VUDU) often stops or starts buffering during playback.

- Contact your internet service provider to troubleshoot your internet connection for speed and line quality. Consistent line quality and speed are very important for internet video playback.

Cannot connect to the network while my PC is connected to the network.

- Check the content of your internet service contract to see if your internet service provider prevents multiple terminals connecting at the same time.

Cannot use WPS to connect to the access point.

- Connect the unit to the access point using scan or manual entry mode. If the access point's security mode is set to WEP*, change the setting to others (recommended), then try WPS again. (For access point configuration, please consult its user manual or manufacturer.)

- * WEP is not recommended to be used due to its major security flaws. Change the security protocol on the wireless router to others (recommended) mode.

Folder or files stored on home network media server are not displayed in the file list or cannot be played back.

- Check the setting on your home media server. (Refer to the user manual of the home media server.)
- Check the network connection and settings.

Note(s)

- The LCD screen is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a fixed point of blue, green or red. This is not to be considered a defect in the LCD screen.
- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for more details on correct operations.

For additional troubleshooting, refer to the Frequently Asked Questions or FAQs on www.philips.com/support.

6 Information

Glossary

Analog TV (NTSC)

Acronym that stands for National Television Systems Committee and the name of analog broadcasting standards. Off the air analog TV signals are no longer being sent by major broadcasting stations in the USA.

ARC (Audio Return Channel) (HDMI 2 only)

HDMI-ARC allows you to use Philips HDMI control to output TV audio directly to a connected audio device, without the need for an additional digital audio cable. Be sure that the device is HDMI CEC and ARC compliant, and that the TV is connected to the device using an HDMI cable attached to both HDMI-ARC connectors.

Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

CEC (Consumer Electronics Control)

This allows you to operate the linked functions between our brand devices with CEC feature and this unit. We do not guarantee 100% interoperability with other brands of CEC compliant devices.

Dolby Digital

The system developed by Dolby Laboratories to compress digital sound. It offers stereo sound (2ch) or multi-channel audio.

DTV (ATSC)

Abbreviation that stands for Advanced Television Systems Committee and the name of the digital broadcasting standards.

e-POP

e-POP is showing set features, technical information, etc on this TV set that is displayed on the TV screen mainly used by TV retailers. Previously the information was on a printed sticker that was put on the display.

HDMI (High-Definition Multimedia Interface)

Interface that supports all uncompressed, digital audio / video formats including set-top box, Blu-ray Disc™ / DVD recorder or digital television, over a single cable.

HDR

HDR stands for High Dynamic Range. By using additional data encoded with the source signal, HDR capable products offer greater contrast through an expansion of the range of the image's color luminance. The source, cable and display must all support HDR.

HDTV (High-Definition TV)

Ultimate digital format that produces high resolution and high picture quality.

PIN code

A stored 4-digit number that allows access to parental control features.

SAP (Secondary Audio Program)

Second-audio channel delivered separately from the Main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

SDTV (Standard Definition TV)

Standard digital format that is similar to the analog TV picture quality.

Maintenance

Cleaning

- Clean the front panel and other exterior surfaces of the unit with a soft microfiber cloth or lens brush. Before cleaning the panel, disconnect the AC power cord.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.
- Do not spray any liquids on the screen or other exterior surfaces of this unit. If liquids enter the unit, they could cause shorts, electric shocks or fire damage.



Servicing

Should your unit become inoperative, do not try to correct the problem yourself. There are no user serviceable parts inside. Call our toll free customer support line found on the cover of this user manual to locate an authorized service center.

IR signal check

If the remote control is not working properly, you can use a digital or cell phone camera to see if it is sending out an infrared signal.



e.g.) With a digital camera:

Point the digital camera towards the remote control infrared diode at the front of the remote control. Press and hold any key on the remote control and look at the camera display. If an infrared pulsating light appears on the display, the remote control is sending out an IR signal.

Note: Some cameras may have an IR filter or dual camera cell phones may have an IR filter in one of the camera's and both will not display the IR signal.

7 Specifications

Model #	55PFL5704 55PFL5604	50PFL5704 50PFL5604	43PFL5704 43PFL5604
Picture			
Type	UHD (Ultra HD) (3840 x 2160 pixels 60 Hz)		
Diagonal screen size / Aspect ratio	54.6"/ 16:9	49.5"/ 16:9	42.5"/ 16:9
Viewing angles	178° (V) by 178° (H)		
Built-in digital / analog tuner	ATSC (digital) / NTSC (analog)		
Sound			
Mono / Stereo	Mono, Stereo		
Power output (RMS watts)	10 W x 2	8 W x 2	
Equalizer	5 band		
Ease of use			
Picture format	SD (4:3 source)	4:3 / Wide screen	
	HD (16:9 source)	4:3 / Wide screen	
	UHD	Full	
Channel			
Channel coverage	Over-the-Air DTV (ATSC)	VHF: 2~13 UHF: 14~69 (Each channel may have e.g. 2.1~2.9, 3.1~3.9, etc)	
	Over-the-Air Analog (NTSC)	VHF: 2~13 UHF: 14~69	
CATV (Analog NTSC)	2~13, A~W W+1~W+94 (Analog W+1~W+84), A-5~A-1, 5A		
Tuning system	Channel frequency synthesized tuning system		
Channel access	Direct access number keyboard, Programmable scan and Channel + (up) / - (down)		
Connectivity			
Composite video input	1		
HDMI input	3 (EDID 1.4 (signals up to 4k@30 Hz and legacy devices) or EDID 2.0 (Signals up to 4K @60 Hz including 4K@60 Hz with HDR))		
	Supporting HDMI video signals : 480i/p, 720p, 1080i @60 Hz, 1080p, 2160p @24/30/60 Hz		
	Supporting HDMI digital audio signals : LPCM, AC3, DD+		
	Supporting PC-input video signal up to 4096 x 2160		
Analog audio L/R input	1 (L audio / R audio)		
PC input	Via HDMI and HDMI-DVI + Analog audio L/R		
USB	1		
Wireless LAN	Supporting wireless standards : IEEE 802.11a/b/g/n/ac (2.4 GHz/5 GHz)		
Ethernet port	1		
Digital audio output	1 Supporting Dolby Digital		
Headphone output	1 1/8 inch (3.5 mm)		
Power			
Power requirements	120 V~ +/- 10%, 60 Hz +/- 0.5%		
Temperature			
Operating temperature	41 °F (5 °C) to 104 °F (40 °C)		

- Specifications are subject to change without prior notice.

8 Warranty

Limited warranty one (1) year

Warranty coverage :

This warranty obligation is limited to the terms as set forth below.

Who is covered:

This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

What is covered:

This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the Warranty Period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in current inventory, or (3) refund the original purchase price of the product.

Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.

Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

What is not covered - Exclusions and limitations:

This Limited Warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

This Limited Warranty does not cover:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per user manual.

To obtain assistance...

Contact the Customer Care Center at:
1-866-309-5962

Chat with us in English:
<https://tinyurl.com/y2e29xsq>

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