

Getting started

Features

- 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.
- Net TV
 - This unit lets you enjoy internet services. Use the remote control to browse the Net TV pages. You can play movies and much more, all from your TV screen.
- Child lock
 - 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 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.
- EasyLink via HDMI link EasyLink 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.
- Component video input
- PC input
- AV input Audio and video input from an external device.
- USB terminal
 - The picture, music and video files stored on a USB memory stick can be played back on this unit.
- Digital audio output
- Headphone audio output
 - Headphone 3.5mm stereo jack for personal listening.

Supplied accessories

User Manual



Quick Start Guide



Caution Sheet



TV base and Screws



Remote Control



Screws packed with this Unit.

Model	Quantity	Size
55PFL5601	8	M4 x 0.472" (12mm)
	2	M5 x 0.472" (12mm)

Note:

- 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

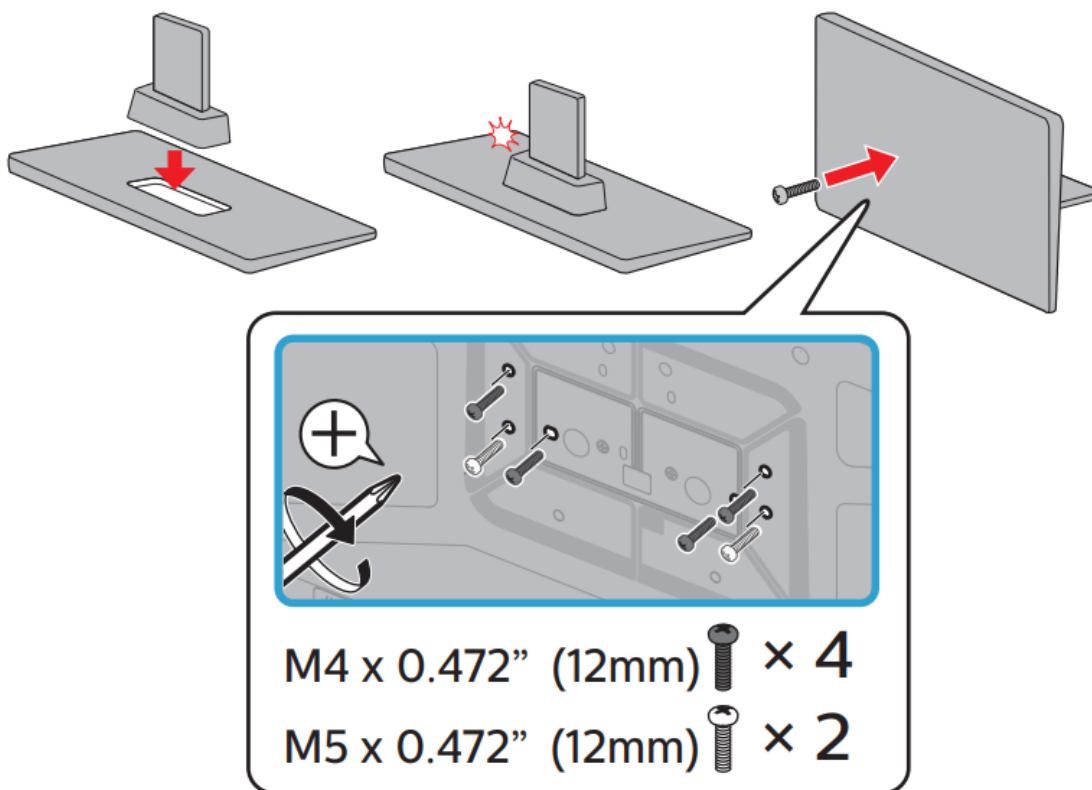
The following is the description for the symbols used in this User manual. Description refers to:

Digital TV operation

Cable / NTSC (Analog) TV operation

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

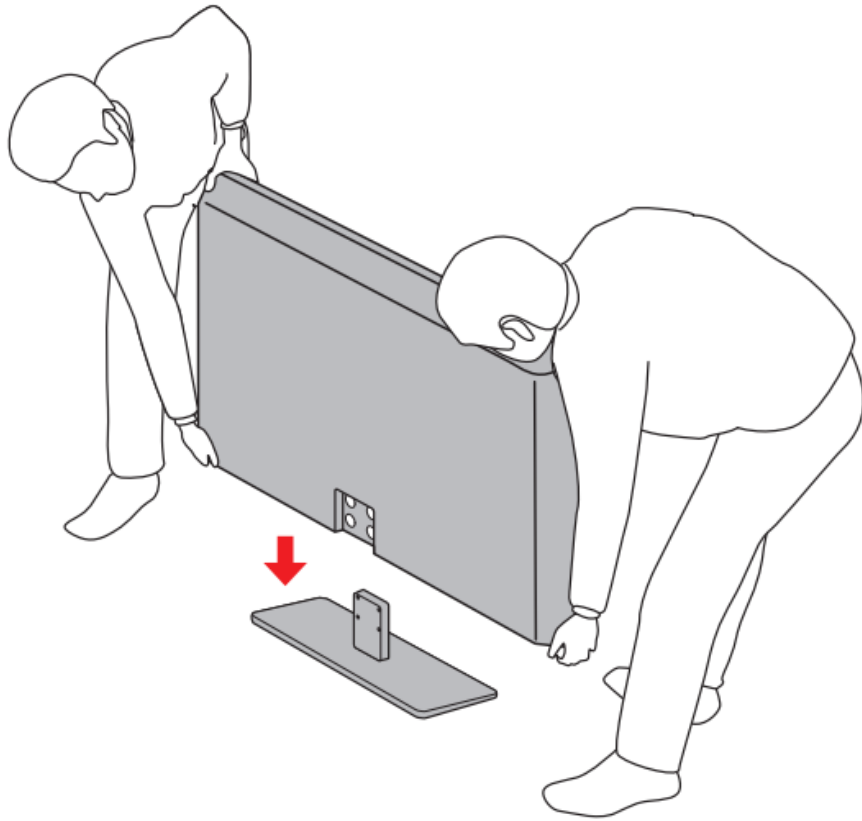
Stand assembly



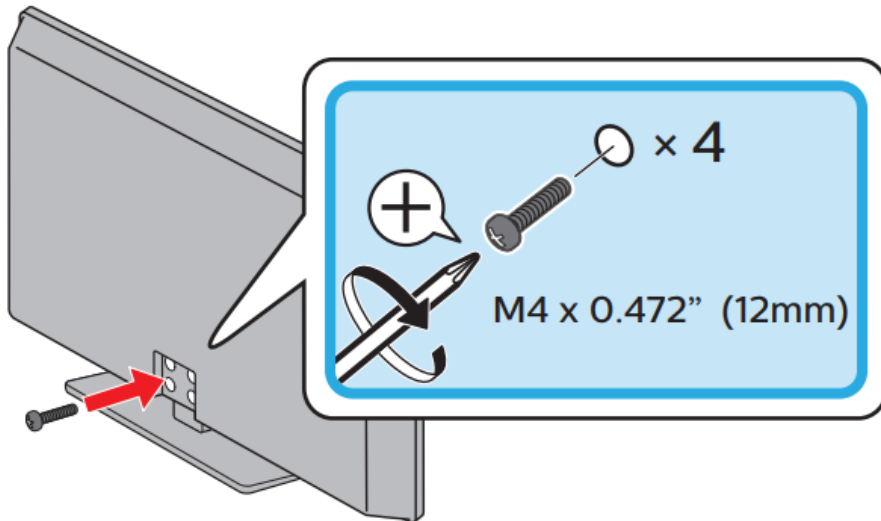
Attaching the base

You must attach the base to the unit to have it as a table top unit. Be sure the front and rear of the base match the proper direction. For large screen TVs, at least 2 people are required for these steps.

1



2



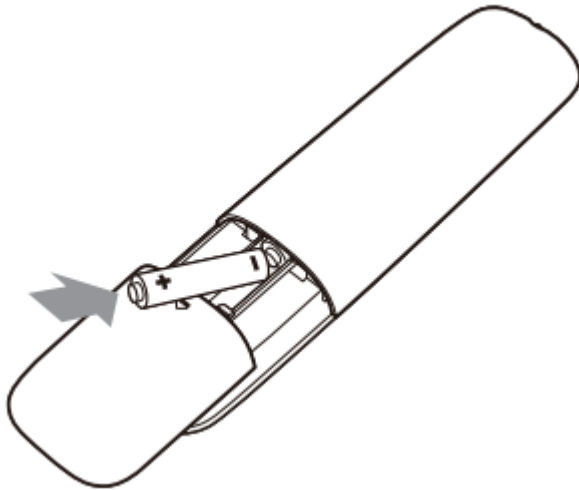
Note(s)

- Make sure to use a table which can support the weight of this unit and is larger than this unit.
- Make sure the table is in a stable location.
- A Phillips-head screwdriver is required to fasten the stands to the TV set.



- When attaching the base, ensure that all screws are tightly fastened. If the base is not properly attached, it could cause the unit to fall, resulting in injuries as well as damage to the unit.
- To remove the base from this unit, unscrew the Phillips-head screws by reversing the procedure. Be careful not to drop the base when you remove it.

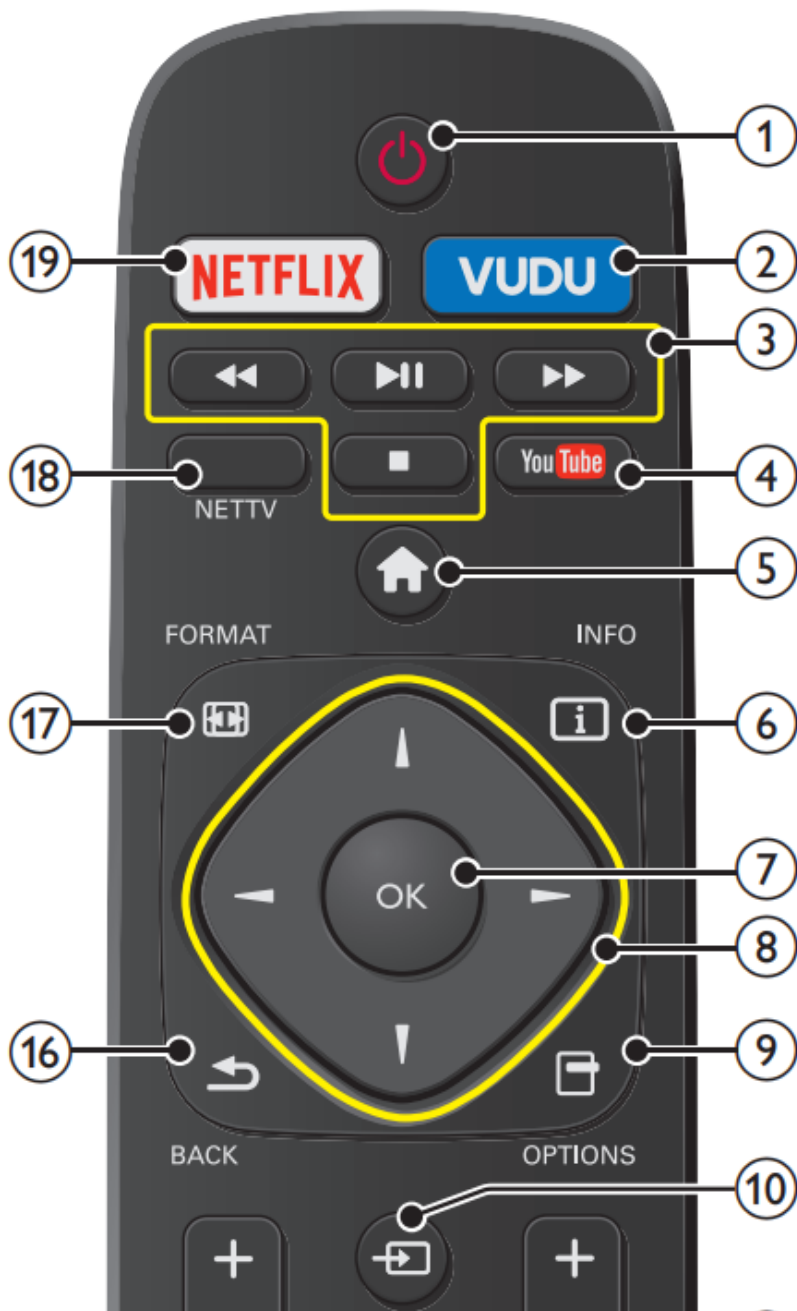
Installing the remote control batteries



1. Slide the battery cover off the back of the remote control.
2. Insert two batteries (AAA, 1.5V). Be sure the + and – ends of the batteries line up with the markings inside the case.
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 from standby or off to standby.

② **VUDU**

Access directly to VUDU.

③ **EasyLink buttons**

◀◀/▶▶ : Searches backward or forward through the disc.

▶|| : Starts, pauses or resumes playback.

■ : Stops the disc playback.



Note(s)

- Pause may not work properly on some devices even if they are EasyLink (HDMI CEC) compliant.

-
- ④ **YouTube**
Access directly to YouTube.
 - ⑤ **🏠 (Home)**
Displays the main menu.
 - ⑥ **ℹ️ INFO**
Displays information about the current program.
 - ⑦ **OK**
Press to decide the command of setting when the Home menu is displayed.
 - ⑧ **▲▼◀▶ (NAVIGATION buttons)**
Moves the cursor, selects the on-screen menu items.
 - ⑨ **☰ OPTIONS**
Displays a list of menu items applicable to the highlighted object or screen.
 - ⑩ **📶 SOURCE**
Selects connected devices.
 - ⑪ **CH + / -**
Selects a channel.

⑫ **Apps (APP1 / APP2 / APP3 / APP4) buttons**
Works as direct access to user specified net apps.

⑬ **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



PREV.CH : Returns to the previously viewed channel.

- ⑭ **🔇 (MUTE)**
Turns the sound on and off.
- ⑮ **VOL + / -**
Adjusts the volume.
- ⑯ **↶ BACK**
Returns to the previous menu operation.

①⑦ **FORMAT**

Adjusts the picture size on the TV screen.

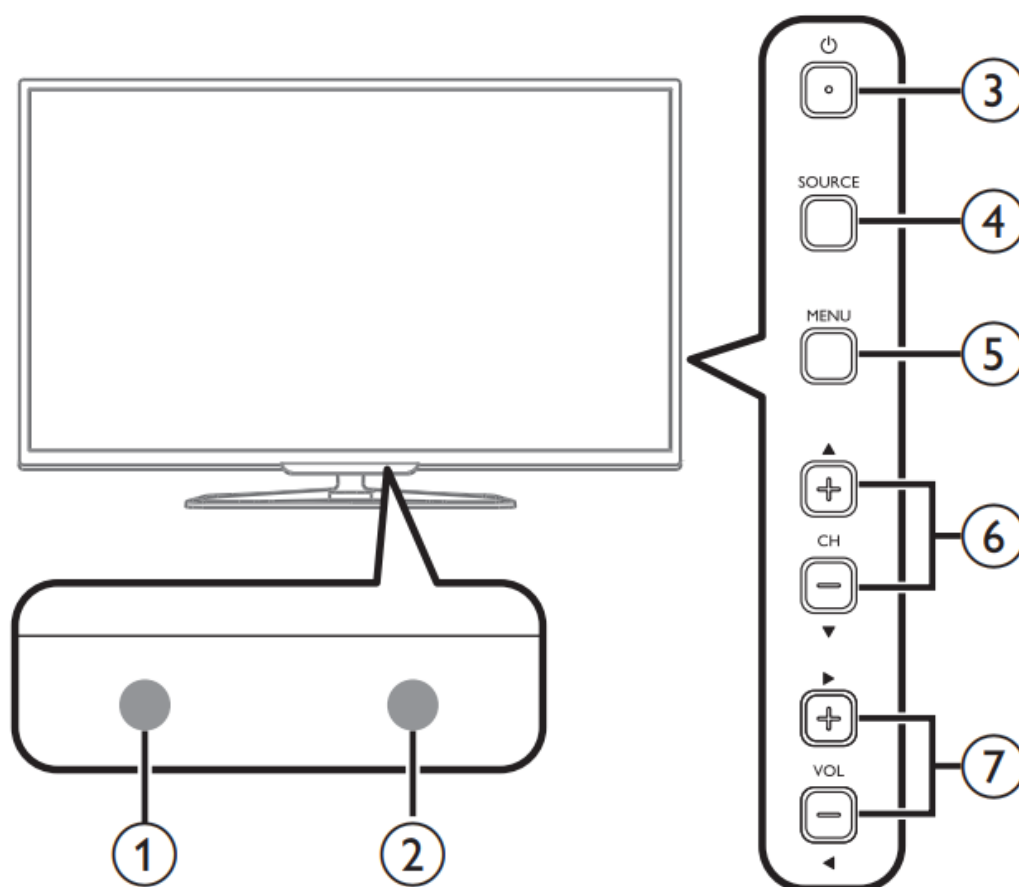
①⑧ **NETTV**

Access to Net TV menu directly.

①⑨ **NETFLIX**

Access directly to Netflix.

Control panel



1. Remote control sensor

- Receives IR signal from remote control.

2. Power on / Standby indicator

- (On : lights in white, Standby : no light)

3. (POWER)

- Turns the TV on or switches the TV into standby mode.


4. SOURCE

- Selects connected devices.

5. MENU


- Opens the main on-screen menu

6. CH (+) / (-)


- Selects a channel. In the menu screen, moves the cursor up () (-) / down


() (+).

7. VOL (-) / (+)

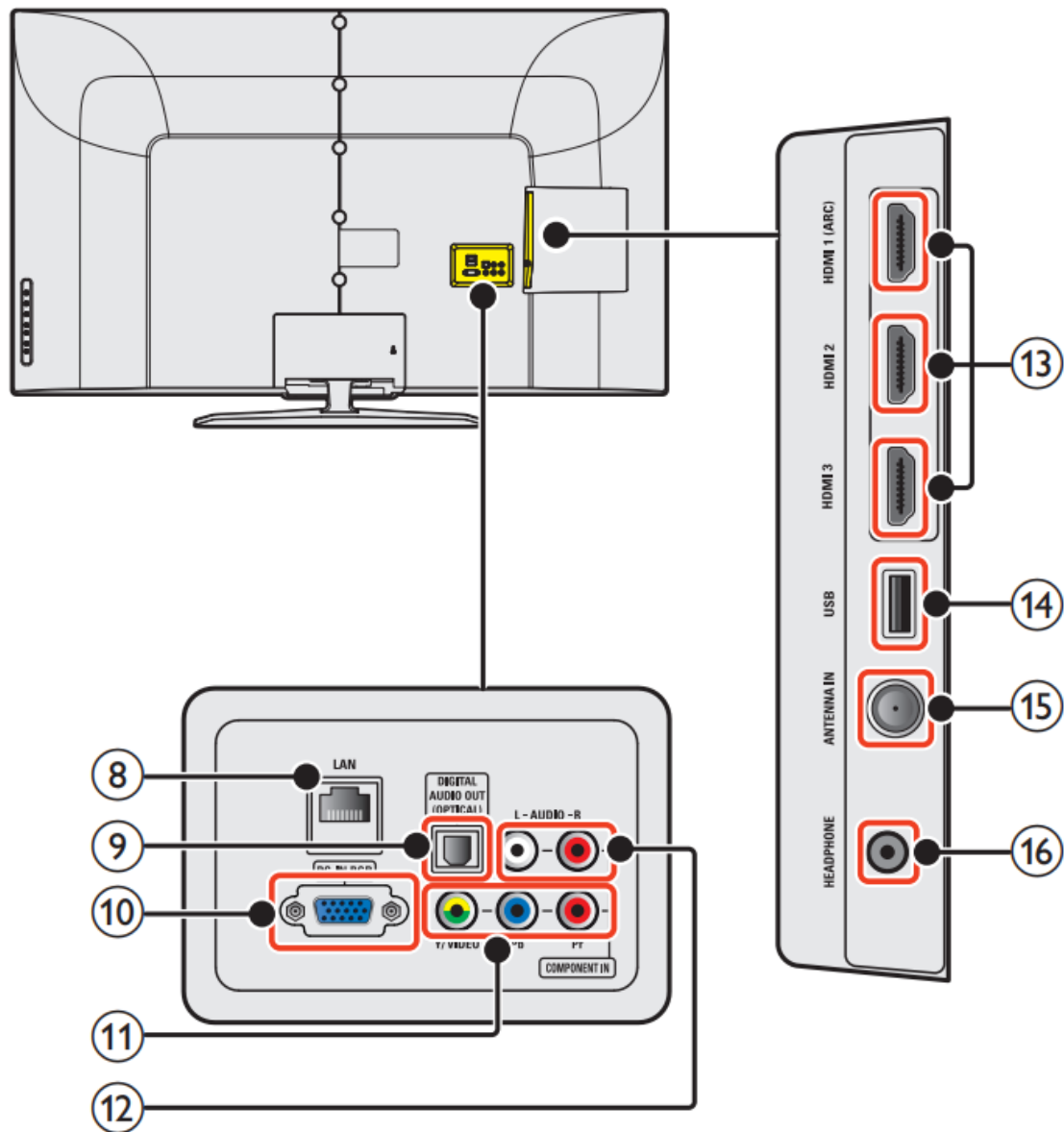
- Adjusts the volume. In the menu screen, moves the cursor left () (-) /

right () (+).

- VOL  (-) : Volume down

- VOL  (+) : Volume up

Terminals



8. Ethernet port

- For internet connection using an Ethernet cable with an RJ-45 connector.

9. Digital audio output jack

- Digital audio (S/PDIF) output to home theaters and other digital audio systems.

10. PC input jack

- VGA cable connection for PC.

11. Component (Y/Pb/Pr) / Composite video (VIDEO) input jack(s) for VIDEO

- Composite video input (VIDEO) jack is a shared jack with component video input (Y) jack. Green / Yellow color orientation depends on model.

12. Analog audio (L/R) input jacks Connect analog audio signals from;

- HDMI-DVI / Analog audio (L/R) jacks signal
- Component video / 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 3.5mm plug audio cable on PC

13. 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.
 - For HDMI 1 only In addition to normal HDMI and HDMI-DVI functionality, it outputs TV audio to an HDMI-ARC-compliant device, such as a home theater system.

14. USB terminal

- Data input from USB memory stick only. Do not connect any device to this terminal such as digital camera, keyboard, mouse, etc.

15. 75 ohm cable / Antenna connection

- Signal input from an antenna or cable / satellite set-top boxes.

16. Headphone audio output jack

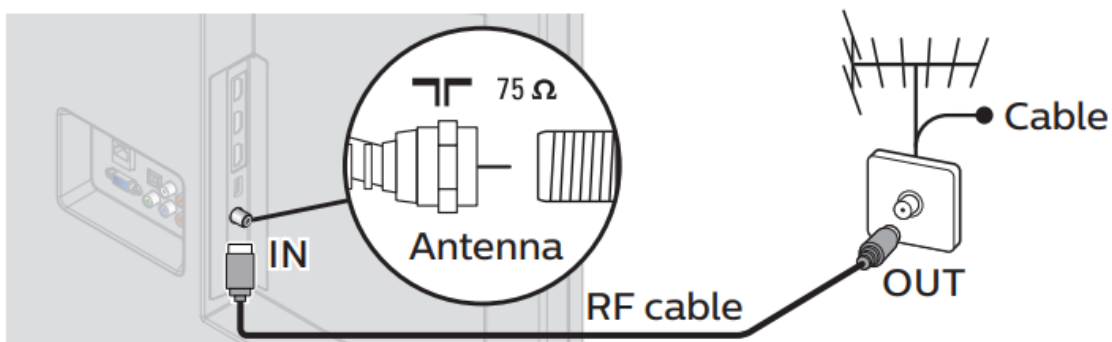
- Headphone 3.5mm stereo jack for personal listening.

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.

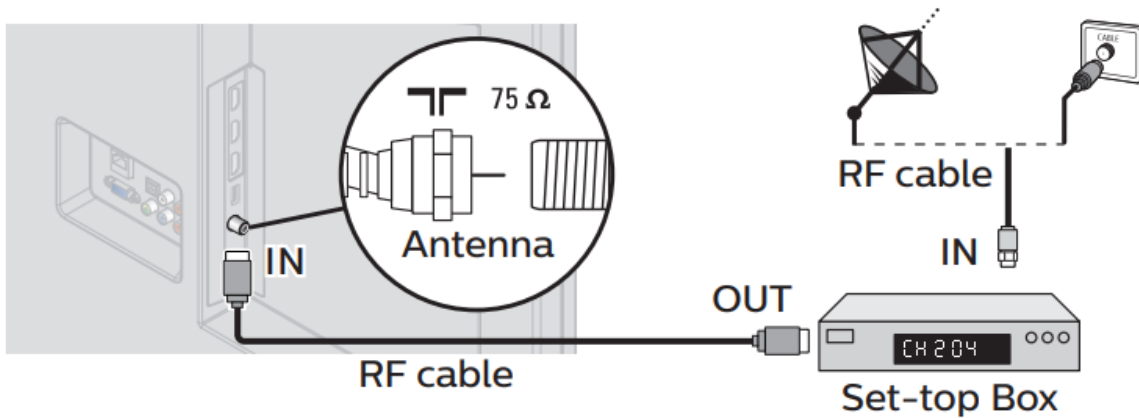
If connecting to an antenna through an RF cable

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




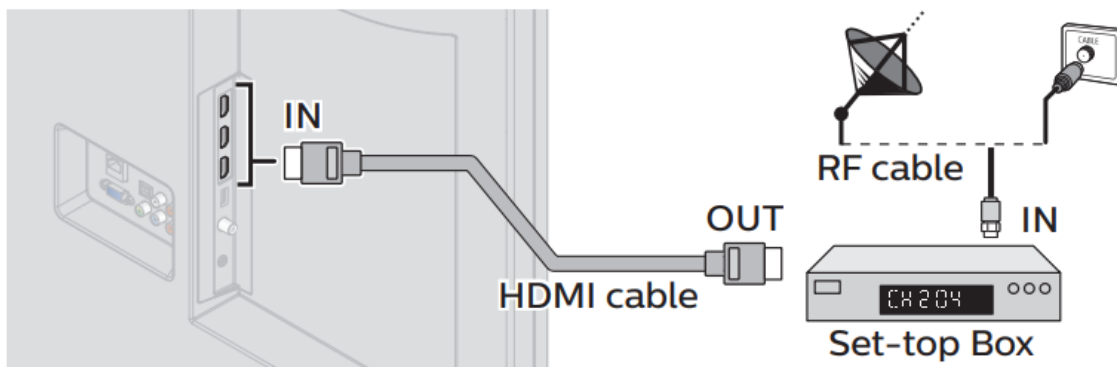
If connecting Cable / Satellite / IPTV set-top box using an RF cable

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




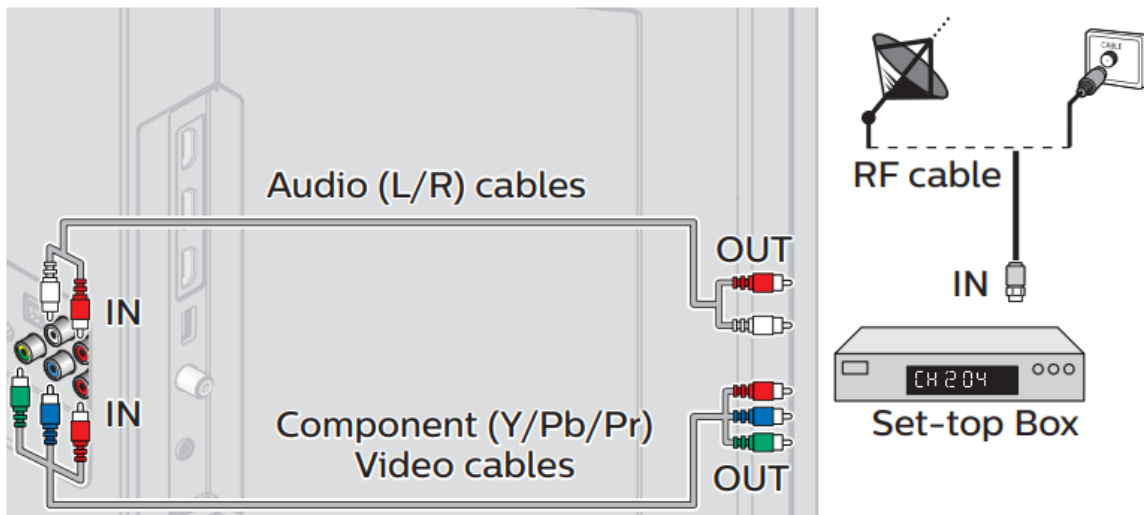
If connecting Cable / Satellite / IPTV set-top box using an HDMI cable

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.



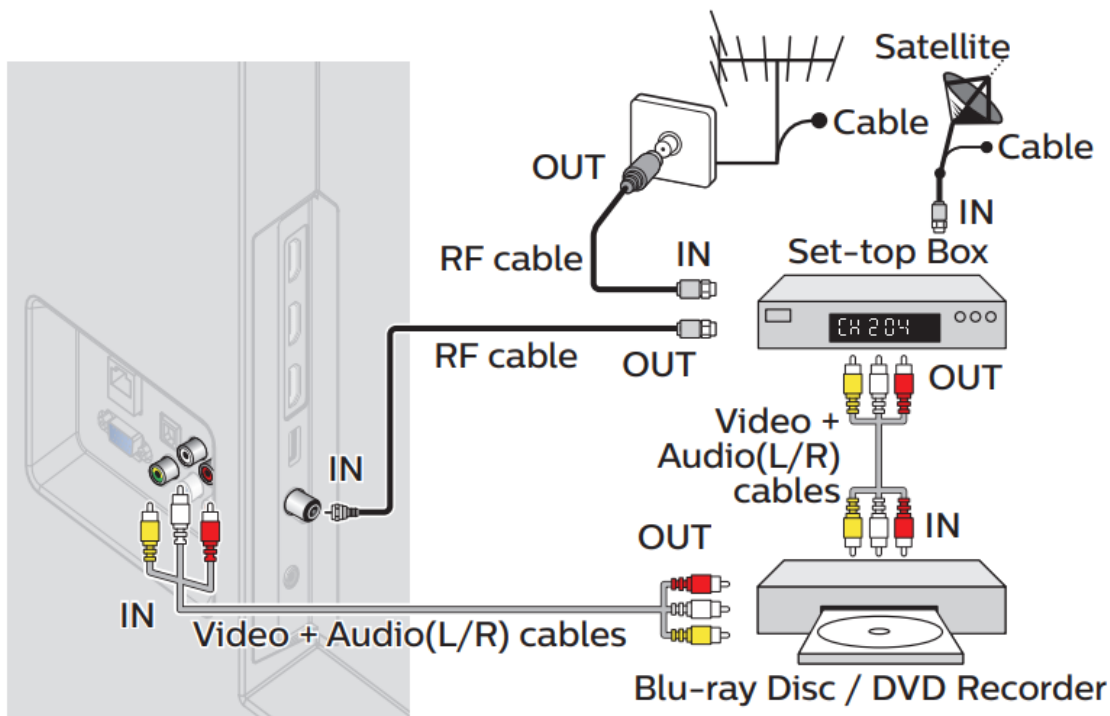
If connecting Cable / Satellite / IPTV set-top box using component video input

If the TV is connected to a cable / satellite set-top box via component video input, make sure you select the correct component video source by using  SOURCE.



Connecting a Cable / Satellite / IPTV set-top box, Bluray 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 2,000MHz or 2GHz.

- 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.

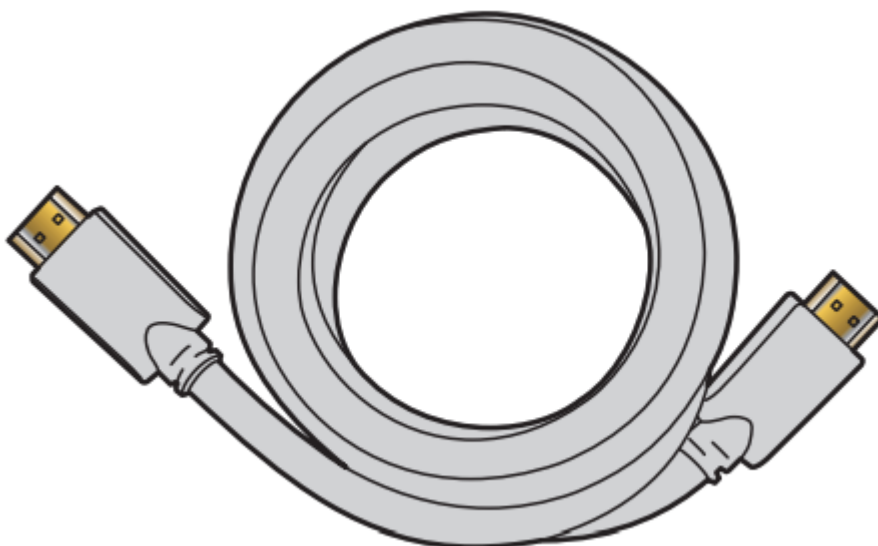
No supplied cables are used with these connections:

- 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

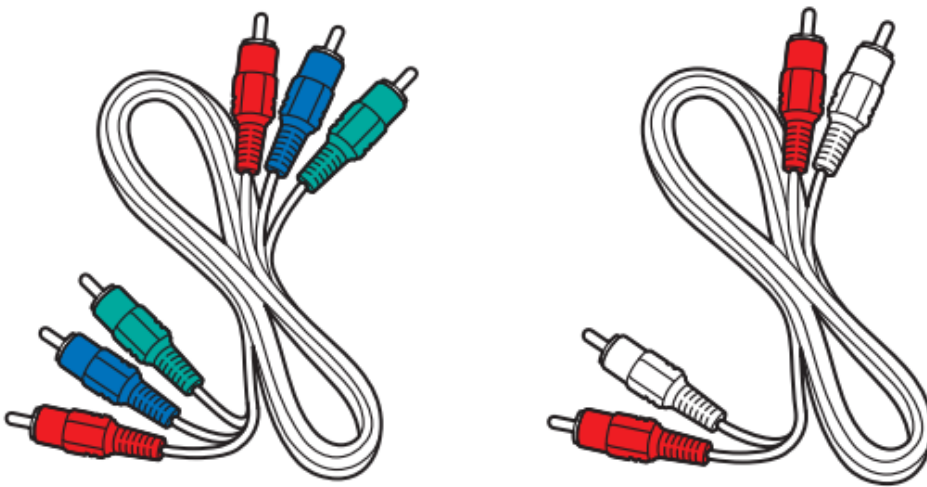


Supports high-definition digital signals and gives highest picture and sound quality. Video and audio signals are combined in one cable. You must use HDMI for full high-definition video and to enable EasyLink(HDMI CEC).

Note(s)

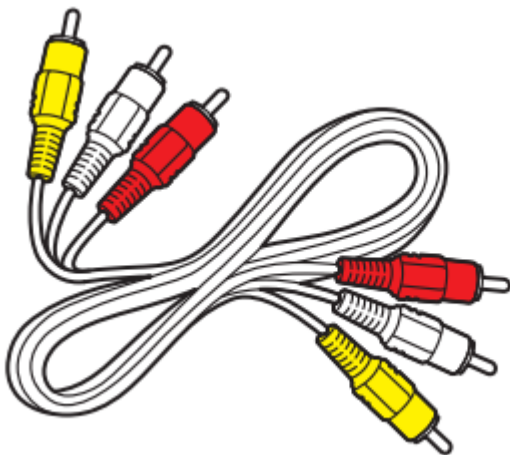
- Philips HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of digital rights management that protects high-definition content in Blu-ray discs or DVDs.
- The HDMI-ARC connector on the TV features HDMI-ARC functionality. This allows output of TV audio to an HDMI-ARC-compliant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

Component (Y Pb Pr) - High quality



Supports high-definition analog signals but gives lower picture quality than HDMI. Component (Y/ Pb/Pr) video cables combine red / green / blue video cables with red / white audio (L/R) cables. Match the cable colors when you connect to the TV.

Composite - Basic quality

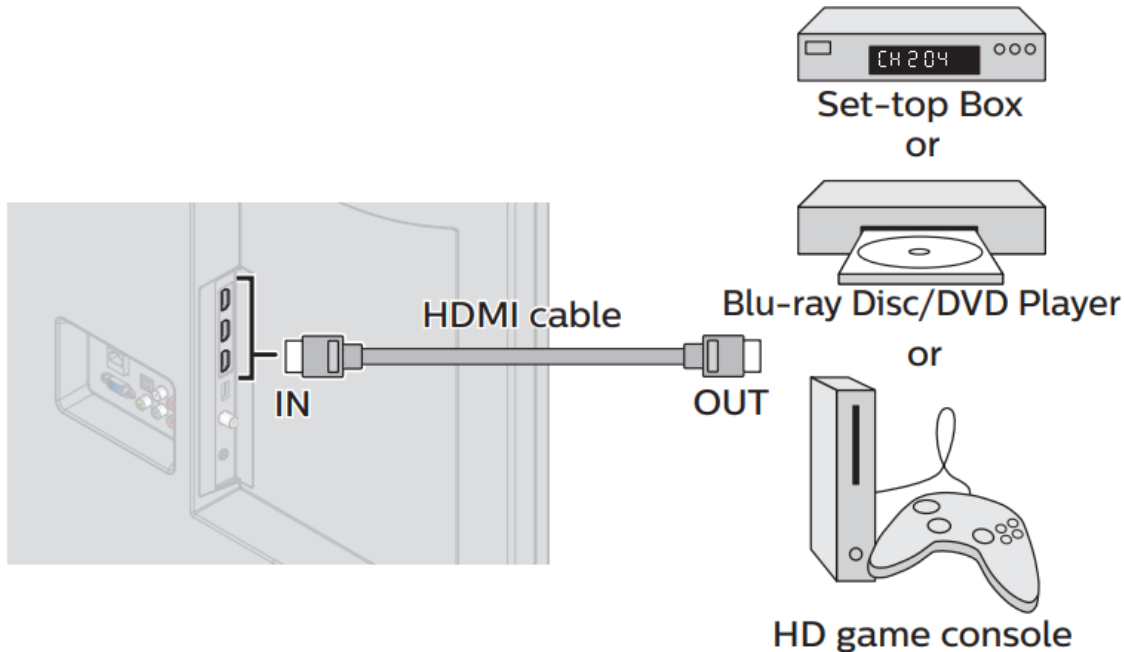


For analog connections. Composite video / Audio analog cable usually combine a yellow video cable with red / white audio (L/R) cables. With this unit, yellow cable must be connected to Y (green) jack on the component video input jacks.

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.

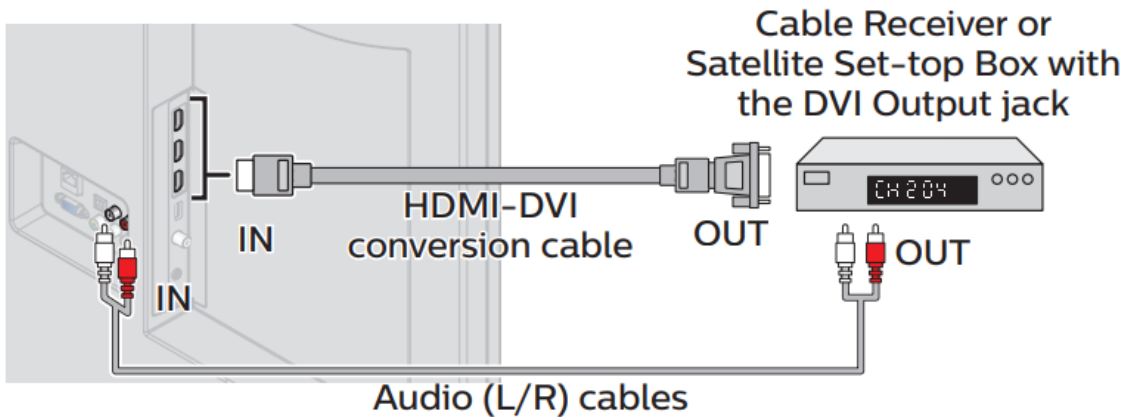


Note(s)

- If there are issues with picture/color and/or sound when connecting an external device using the HDMI port, please try switching the HDMI mode. (Refer to HDMI mode → p. 33)
- 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 24/30/60Hz of video signals, 32kHz/ 44.1kHz and 48kHz of audio signals.
- This unit accepts LPCM, AC-3, DD+ audio signal.
- This unit accepts only signals in compliance with EIA861.

HDMI-DVI connection

This unit can be connected to your 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.

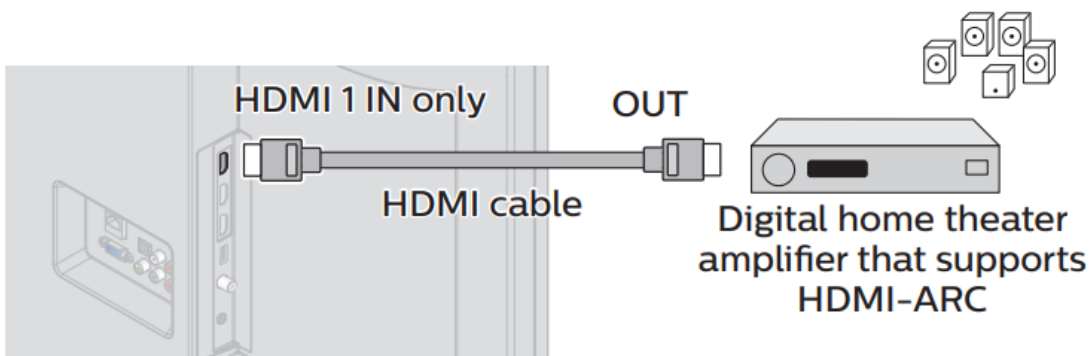


Note(s)

- 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.
- 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 EIA/CEA-861/861B.

HDMI-ARC connection

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



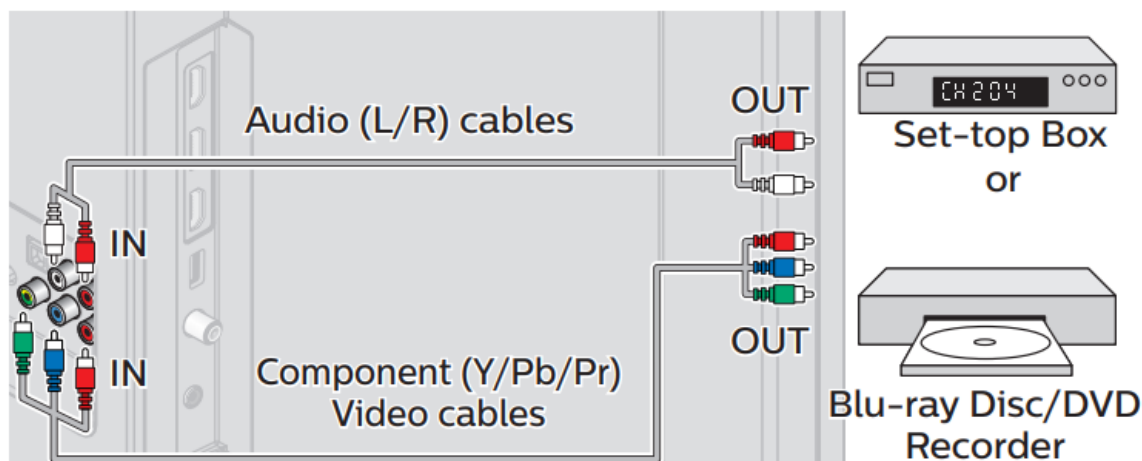
Note(s)

- The HDMI 1 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.

Component analog video connection

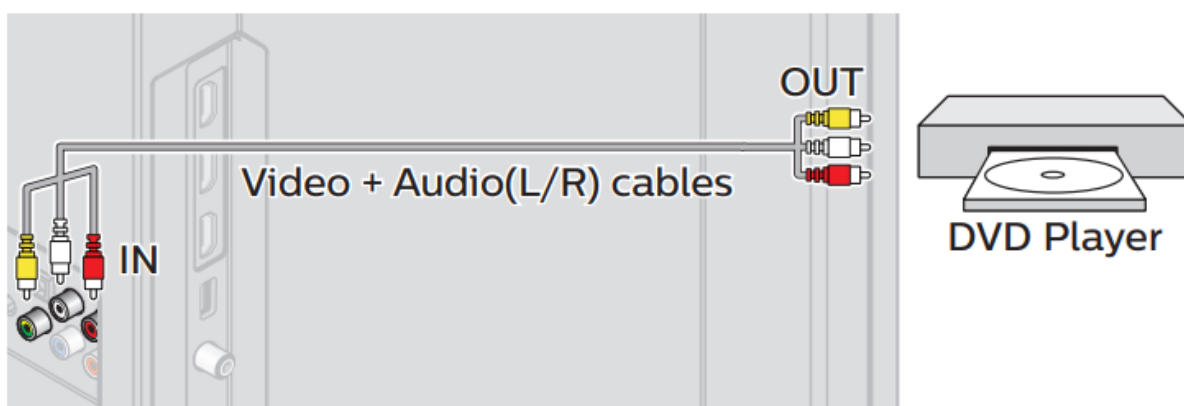
Component analog video connection offers better picture quality for video devices connected to the unit. If you connect to the unit's component video (Y/Pb/Pr) input jacks, connect analog audio cables to the analog audio (L/R) input jacks.



Note(s) • The unit accepts 480i, 480p, 720p, 1080i and 1080p of video signals for this connection.

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 component / composite video (Y/VIDEO) input jack (green), connect audio cables to the audio (L/R) input jacks. When the audio is monaural, then only connect to the audio L input jack.

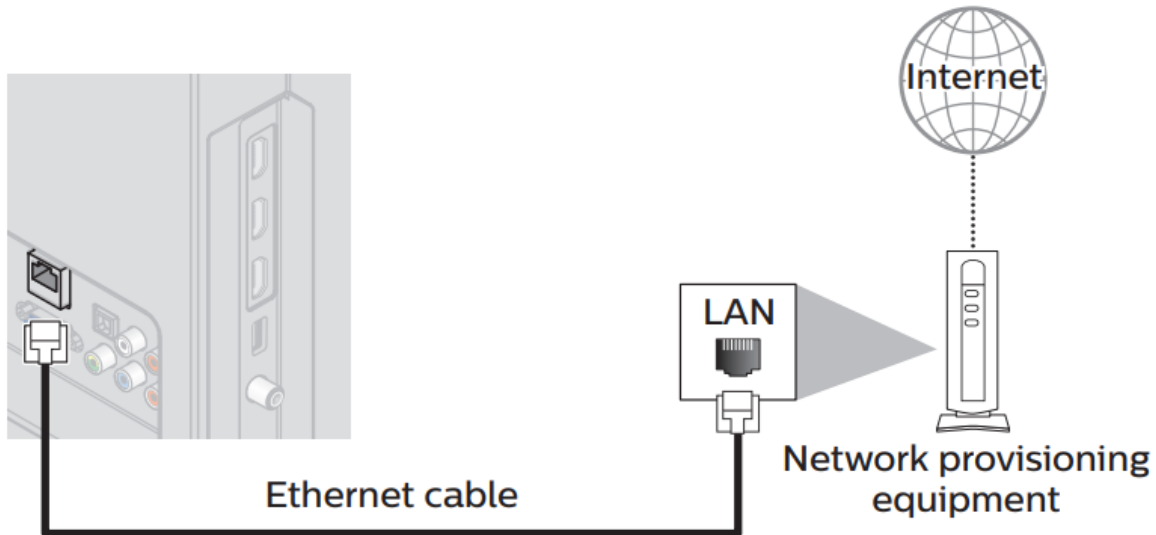


Note(s)

- With this unit, yellow cable must be connected to Y (green) jack on the component video input jacks.

- Whenever you connect to the composite video input jack (Y/VIDEO), you must disconnect the component video input jacks (Pb and Pr). If you leave those jacks connected, it may cause an unstable picture.

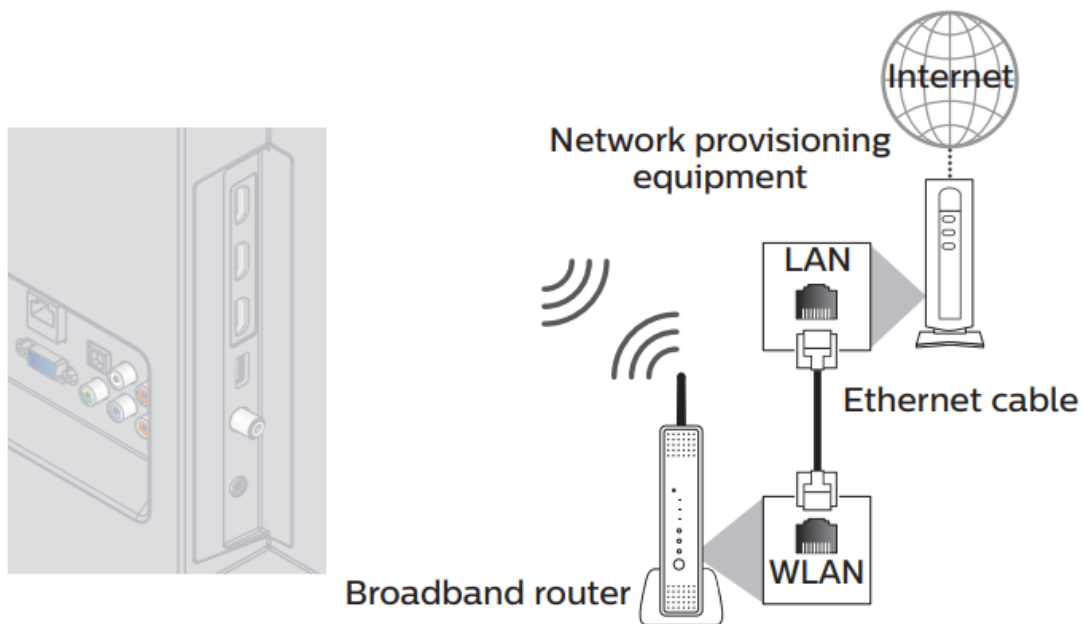
Connecting the TV to the internet using an Ethernet cable



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. Connect to network → p. 38
- 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

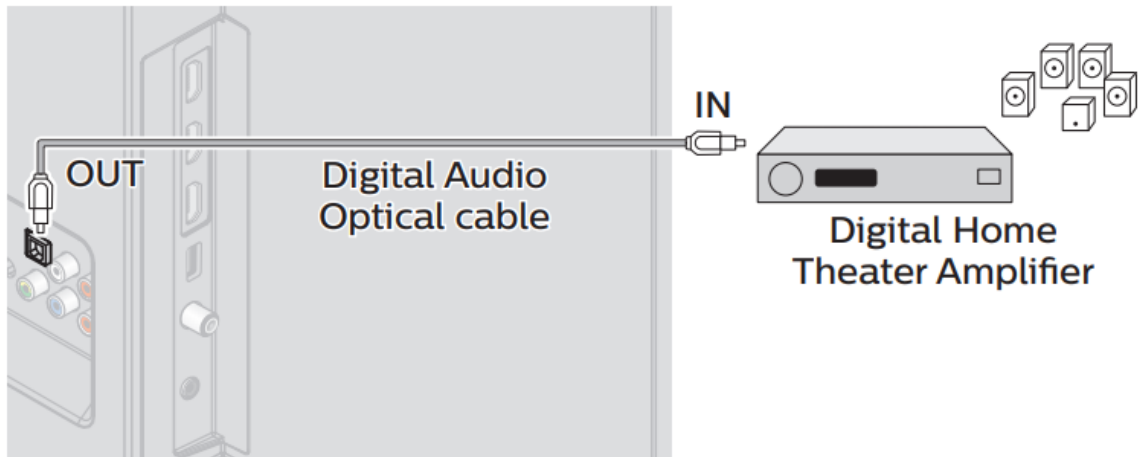


Note(s)

- After you make the wireless connection, set up the necessary network settings. Connect to network → p. 38
- 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

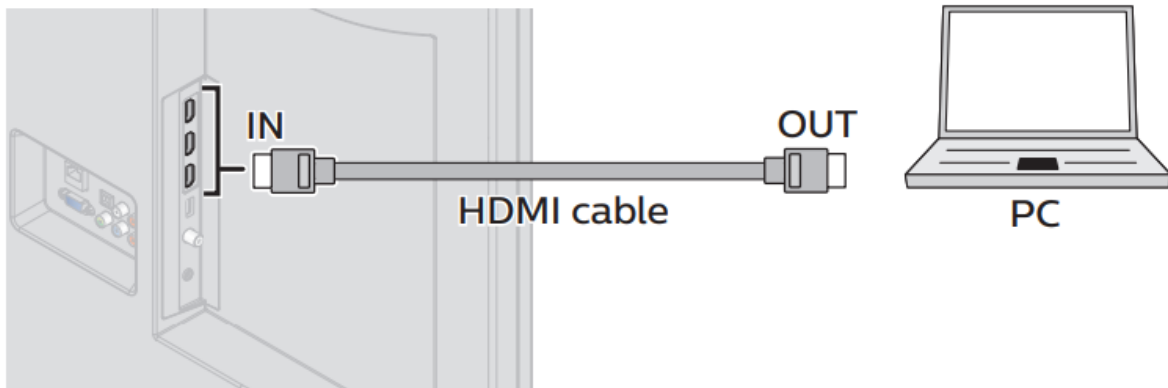
If you connect this unit to an external digital audio device, you can enjoy multi-channel audio like 5.1ch digital broadcasting sound. Use a digital audio optical cable to connect the unit to external digital audio devices.



PC connection

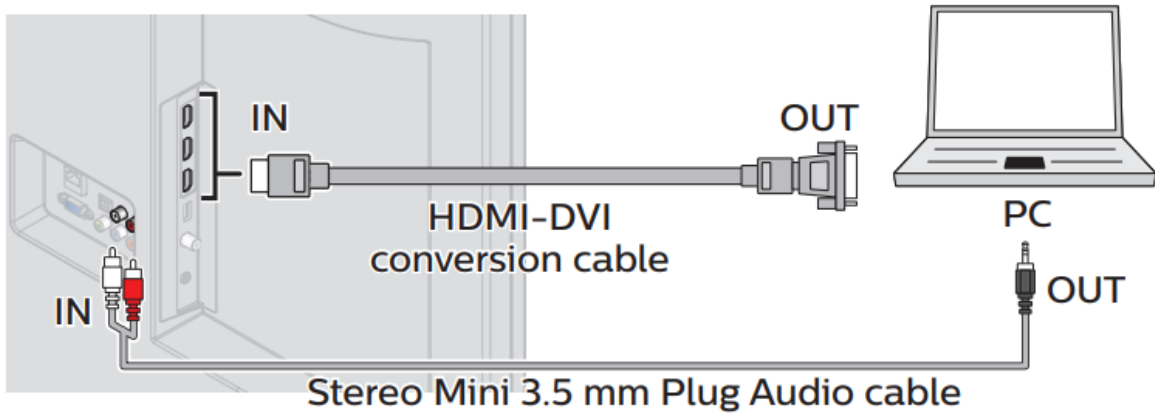
HDMI connection

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



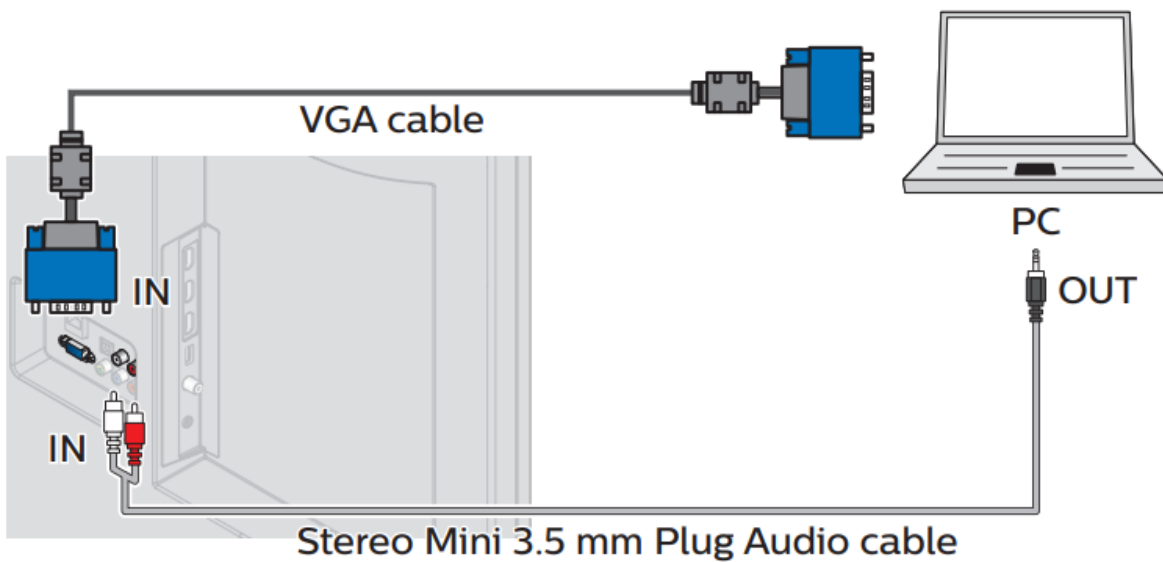
HDMI-DVI connection

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 3.5mm plug audio cable for analog audio signal as well.



VGA connection

This unit is equipped with a PC input jack. If you connect this unit to your PC, you can use this unit as a PC monitor. Use a VGA cable for this video connection and it requires a stereo mini 3.5mm 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	60Hz
SVGA	800 x 600	
XGA	1,024 x 768	
WXGA	1,280 x 768	
	1,360 x 768	
FHD	1,920 x 1,080	24/30/60Hz *2
UHD *1	3,840 x 2,160	
	4,096 x 2,160	

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

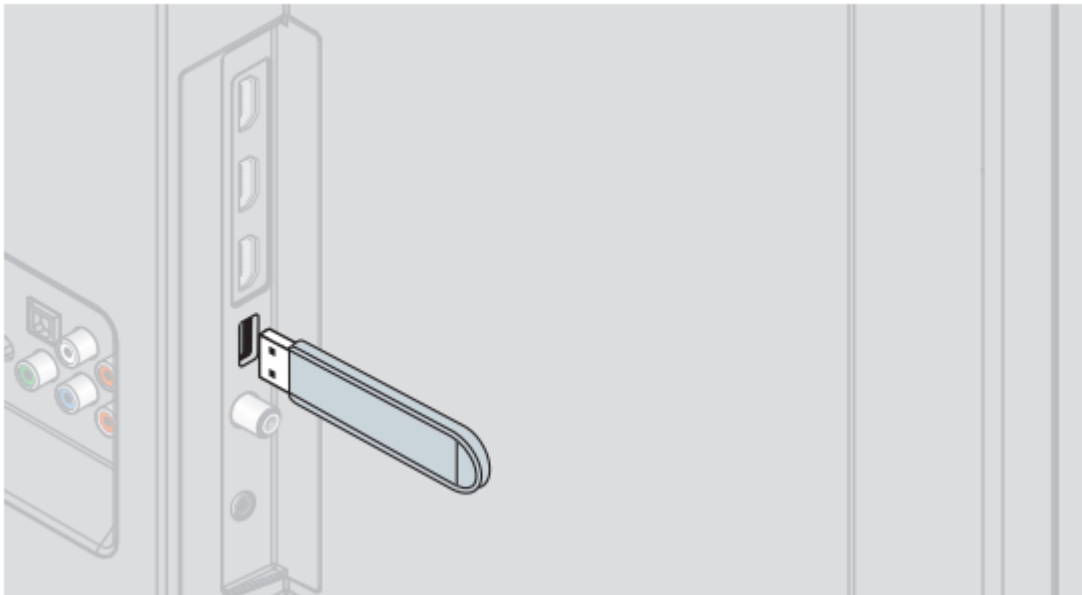
1. UHD format is available only when using the HDMI connection and HDMI-DVI connection.
2. Refresh rate for VGA connection is only 60Hz.

Note(s)

- Please purchase a VGA cable that has a ferrite core (0.6 inches (15mm) or more in diameter).
- 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.
- 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 EIA/CEA-861/861B.

USB memory stick

This unit offers easy playback of picture, music and video files. Insert the USB memory stick into the USB terminal shown below. For a complete list of file formats and specifications supported, refer to USB Section → p. 24










Note(s)

- The unit recognizes only a USB memory stick.
- Do not use a USB hub or an extension cable to connect an external hard disk drive to the unit. (Not supported.)
- Always insert a USB memory stick directly to this unit.
- A USB memory stick is not supplied with this unit.
- We do not guarantee that all USB memory sticks can be supported by this unit.
- Be sure to keep a backup copy of the original files on your USB device before you play them back on this unit. We have no responsibilities for damage or loss of your USB stored data.
- To protect your USB memory stick files from being erased place the write protect sliding tab in the protect position (if available).
- When you are ready to remove a USB memory stick, set the unit to go into standby mode to avoid any damage to your data and the unit.
- A USB memory stick that requires its own driver or the device with a special system such as fingerprint recognition are not supported.
- This unit is not allowed to use the USB memory stick which requires an external power supply (500mA or more).

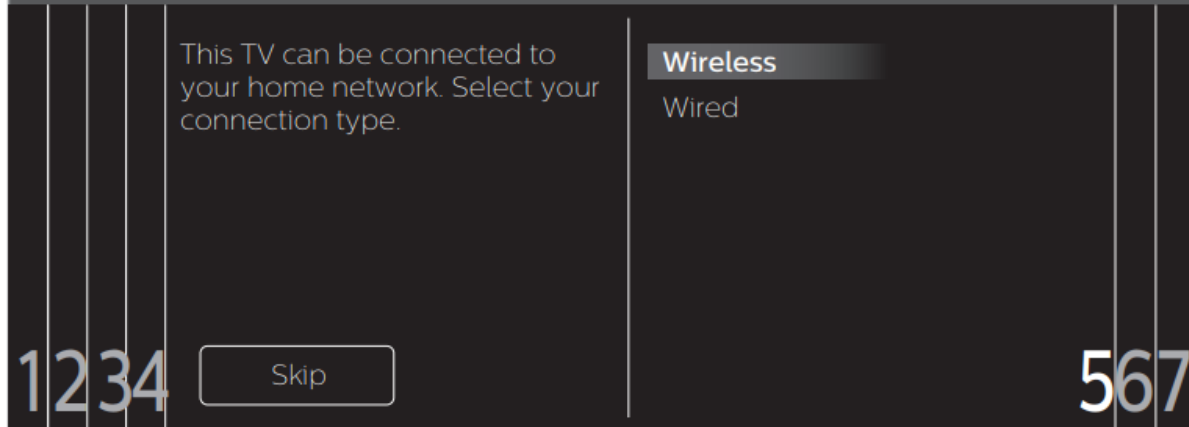
Initial setup

This section will guide you through the unit's Initial setting which includes selecting a language for your on-screen menu, country, location and Autoprogram, which automatically scans and memorizes viewable channels. You can also set the network connection in this setting.



Before you begin: Make sure the unit is connected to an antenna or cable.

1. After making all the necessary connections, press  to turn on the unit.
 - It may take a few moments to turn on the unit for the first time.
 - Initial setup menu appears automatically after the unit is turned on.
2. Use   to select the on-screen language, country, TV placement and location in the middle of the TV screen, then press OK.
 - You must set Home in location setting. Otherwise, Picture and Sound settings you adjusted will not be memorized after the unit goes into standby mode.
3. Use   to select Skip or Next on network setup screen.
4. Use   to select Wireless or Wired, then press OK.

Installation





Wireless	If you have a wireless router, select Wireless to connect to the internet.
Wired	If you connect with an Ethernet cable, select Wired to connect to the internet.

- If you have a router with easy connect function, select Wireless and use   to select Easy Connect, then press OK.

5. Follow the on-screen instructions to complete the installation.

- When you select On in the selection screen for Auto software update, A message will appear later if there is the latest software on the network server.

6. Use   to select the signal type.

- If the TV is connected to a cable or satellite set-top box, select the 2nd one and skip to step 8.

Installation

Select "Antenna" to set up a TV signal from a cable TV wall jack or a standard TV antenna.


Select "Set-top box" to set up a TV signal from a cable TV box or satellite TV receiver.

Antenna

Set-top box

123456

7

7. Use  to select Antenna for TV channels or Cable for CATV channels, then press OK.

Installation

Make sure that you have attached your antenna or cable signal into the jack on the back of your TV labeled "ANTENNA IN".

Now select either Antenna or Cable, using up/down key of the remote control. Once you have made your selection, press the OK button to proceed.

Antenna

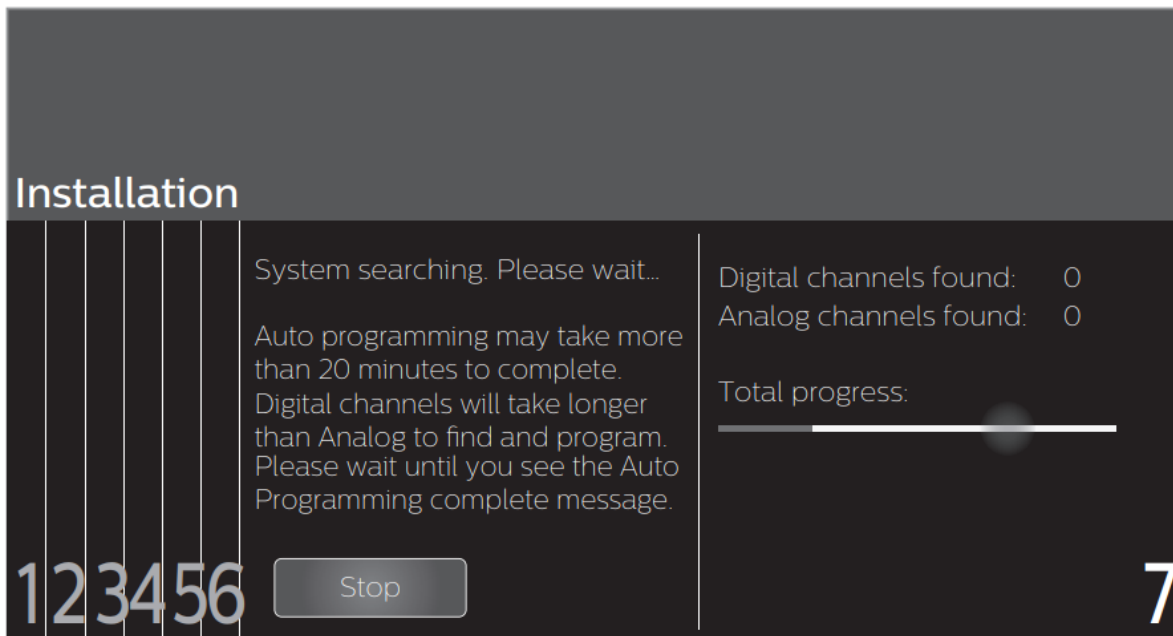
Cable

Skip

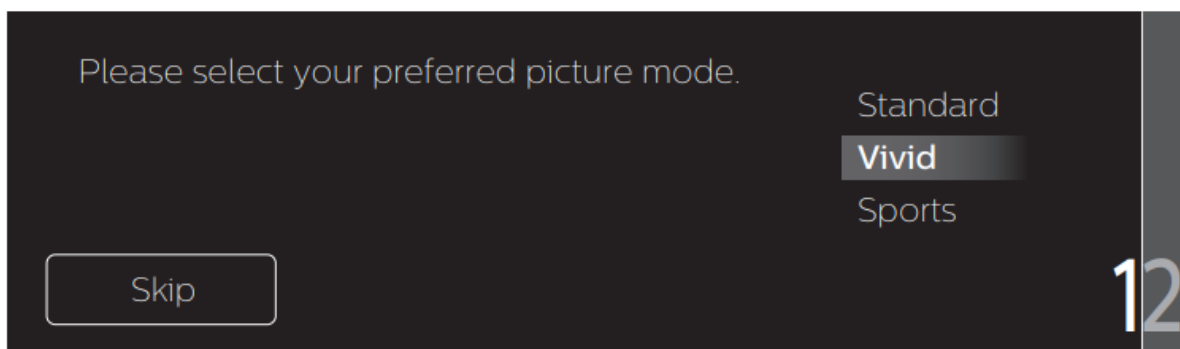
123456

7

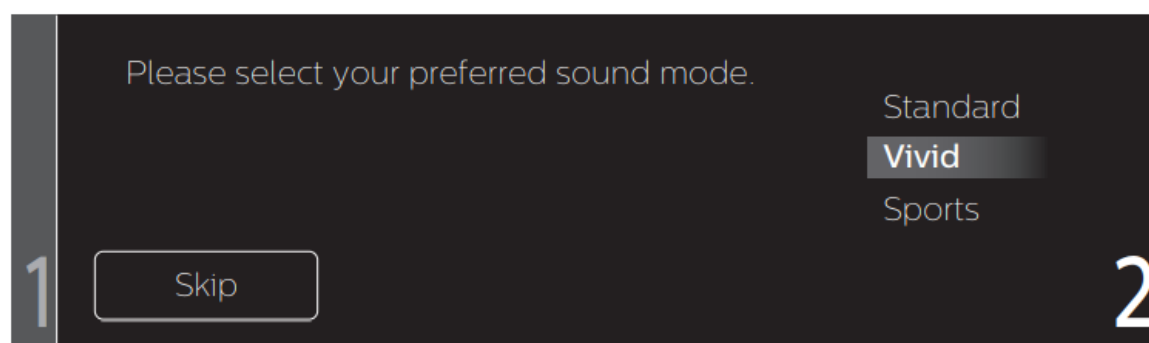
- When Antenna is selected, the TV detects antenna signals. It searches for DTV and analog TV channels available in your area.
- When Cable is selected, the TV detects signals supplied by cable. It searches for DTV, analog TV and cable channels available in your area.
- Auto programming will begin.



8. Use ▲▼ to select your preferred picture setting, then press OK.




9. Use ▲▼ to select your preferred sound setting, then press OK.



10. After Picture and sound setup is completed, a message will appear if there is the latest software on the network server.

Note(s)

- If you are not receiving a signal from your cable service, contact the cable provider.
- If you press  during Autoprogram, this setup of TV channels will be cancelled.
- The initial Autoprogram function can be executed for either Antenna or Cable only once. When you change the connection (Antenna / Cable), select Search for channels again.
→ p. 35

After an initial setup is completed...

- If you want to scan the channels automatically again.

Search for channels → p. 35

- If you want to change to another language.

Language → p. 33

- If you want to change the country setting.

Country → p. 48

- If you want to change the location setting.

Location → p. 33

- If you want to change the network setting.

Connect to network → p. 38

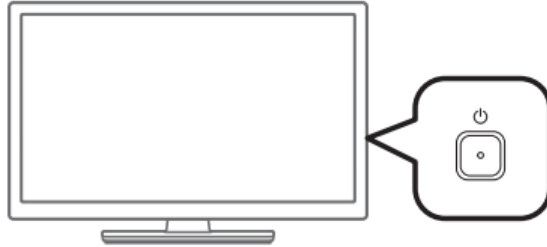
- If you want to restore the picture and sound setting.

Picture and sound setup → p. 28

Use your TV

Switching on your TV and putting it in standby mode


TV



Remote Control



To turn the TV on from standby or off to standby

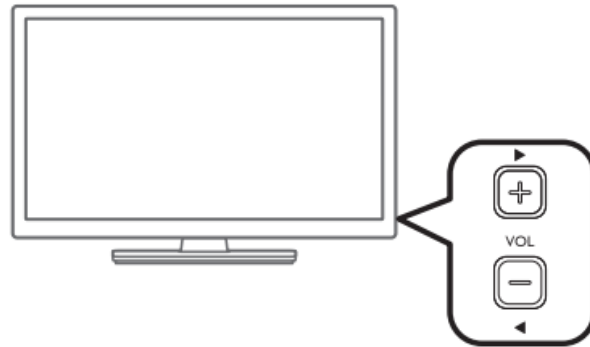
- Press  on the TV or the remote control.

Note(s)

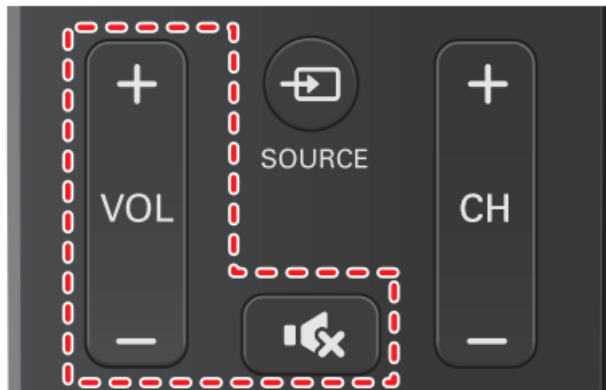
- Energy consumption contributes to air and water pollution. When the AC power cord is plugged in, your TV consumes energy with a very low standby power consumption.

Adjusting volume


TV





Remote Control





To decrease or increase volume

- Press VOL  on the TV or press VOL + / - on the remote control.

VOL  (-) : Volume down

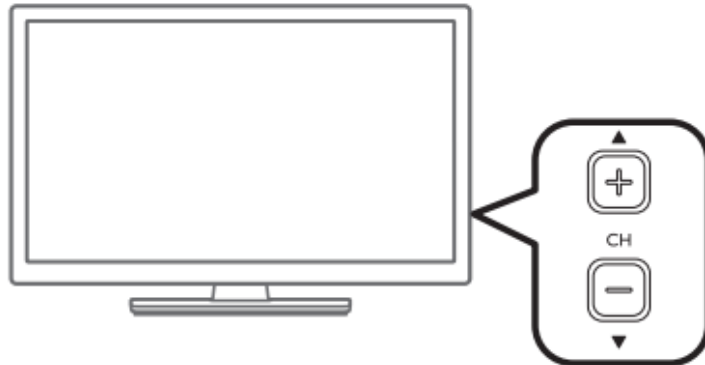
VOL  (+) : Volume up

To mute or unmute sound

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

Switching channels

TV



Remote Control



To select channels by using CH ▲ / ▼ or CH + / -

- Press CH ▲ (up) / ▼ (down) on the TV or press CH + / - on 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 1 1. 1 Be sure to press • before entering the subchannel number



Cable / NTSC (Analog) TV operation

-When selecting cable or analog channel 1 1



Press PREV.CH to return to the previously viewed channel.

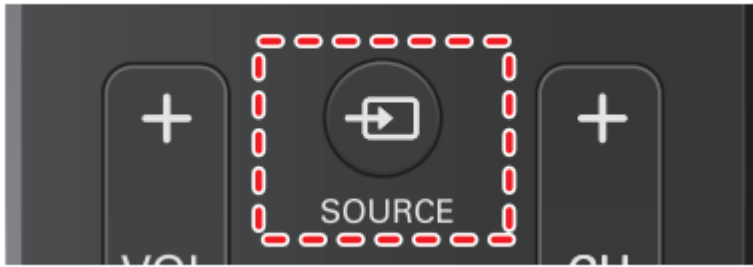
Note(s)


- To select the non-memorized channels, use the NUMBER buttons.
- Channel not available or No signal will appear on the TV screen after the subchannel broadcast is over.
- Audio only message will appear on the TV screen, when you receive only sound signal.

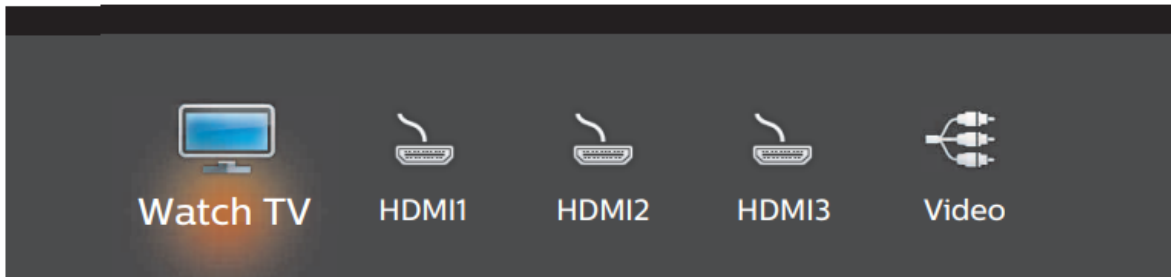
Watching channels from an external device

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.




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



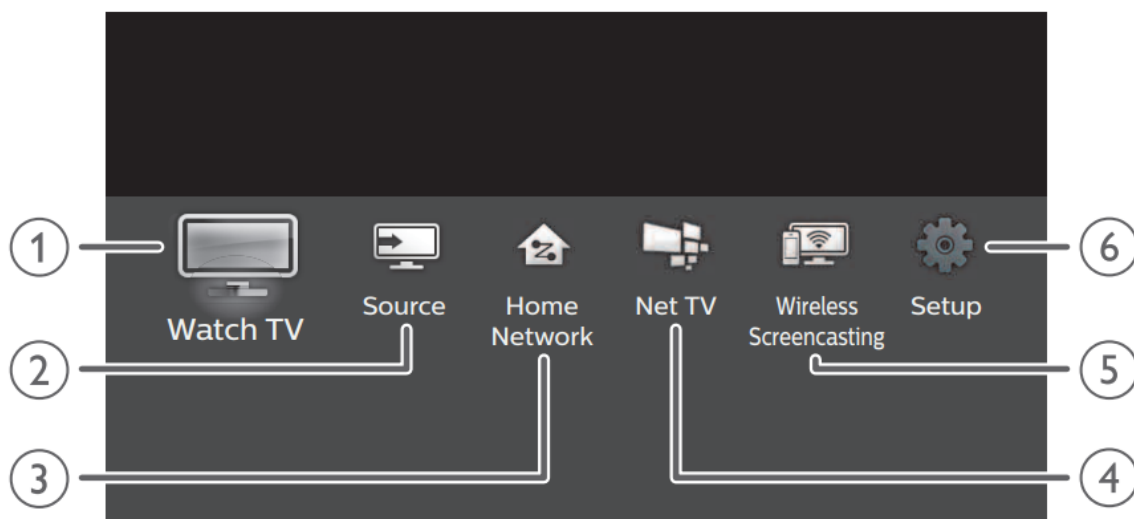
- Use the remote control of the set-top box or the connected device to select channels.

Access the Home menu

1. Press .







Guide to Home menu



1. Watch TV : Switches back to the TV source if another source is selected.
2. Source : To select connected devices.
3. Home Network : Accesses Home network menus.
4. Net TV : Accesses Net TV menus.
5. Wireless Screencasting : Accesses Wireless Screencasting menus.
6. Setup : Accesses menus that allow you to change picture, sound and other TV settings.



Lock or unlock your device from the Home menu


This section describes how to lock or unlock specified device.

1. Press  SOURCE on the remote control.
2. Use  to select a device to lock or unlock.
3. Press  OPTIONS on the remote control.
4. Use  to select Lock or Unlock, then press OK.
 - If device lock is unlocked, Lock will be displayed. If device lock is locked, Unlock will be displayed at the top right of the device icons.
5. Enter your PIN. Change PIN → p. 37


Changing device type

You can change device icons displayed in the source list.

1. Press  SOURCE on the remote control.
2. Use  to select the desired device.
3. Press red button on the remote control.

4. Use  to select the desired type, then press OK.

To reset the type





- Press  OPTIONS on the remote control at step 3, then select Original icon

Scan connections

You can rescan TV connections and update the source list.






Before you begin:

You must set On in Master EasyLink. → p. 34


1. Press  SOURCE on the remote control.
2. Use  to move the cursor to any device.
3. Press  OPTIONS on the remote control.
4. Use  to select Scan connections, then press OK.

Create a list of favorite channels


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

1. Press OK while viewing a TV program.
2. Use  to select the desired channel, then press yellow button.
3. Use  to select the desired favorite list (Favorites 1 - Favorites 4), then press OK to add or remove on the list of favorite channels.
 -  indicates that the channel is added.
 -  indicates that the channel is removed.
 - The channel will be marked with  icon.


Display the list of favorite channels

1. Press OK while viewing a TV program.
2. Use  to select Favorites.

To change the favorite list


1. Press blue button.
2. Use  to select the desired favorite list (Favorites 1 - Favorites 4).

To remove a channel from the favorite list

1. Select the desired channel, then press yellow button.
2. Use  to select Yes, then press OK

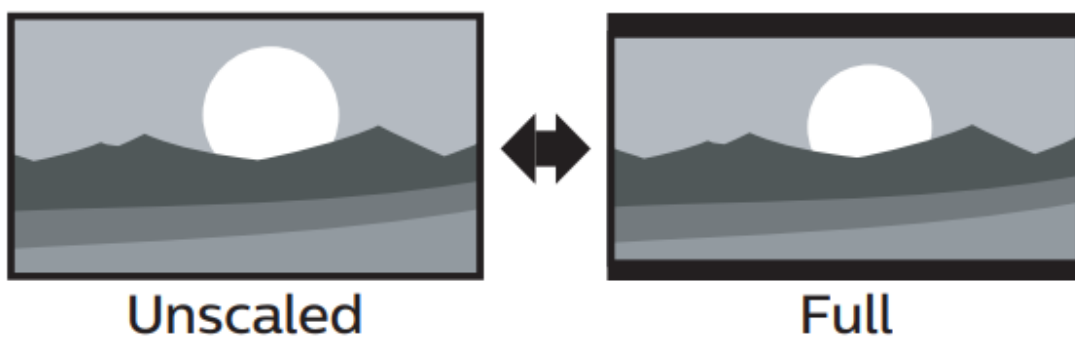
Changing Picture format

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.

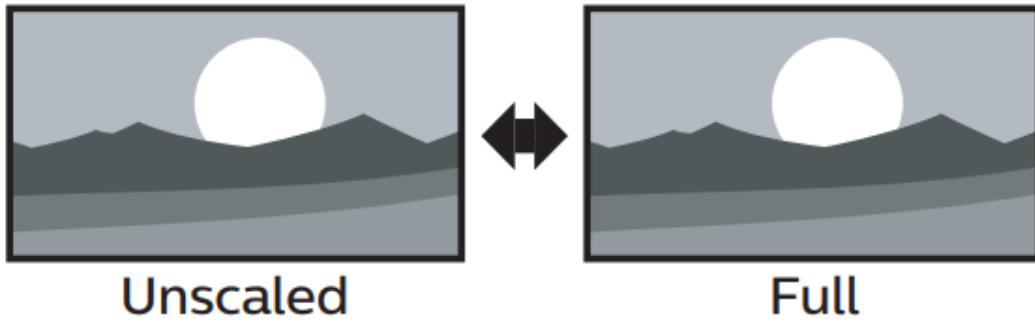
Press  FORMAT repeatedly to switch the TV aspect ratio.



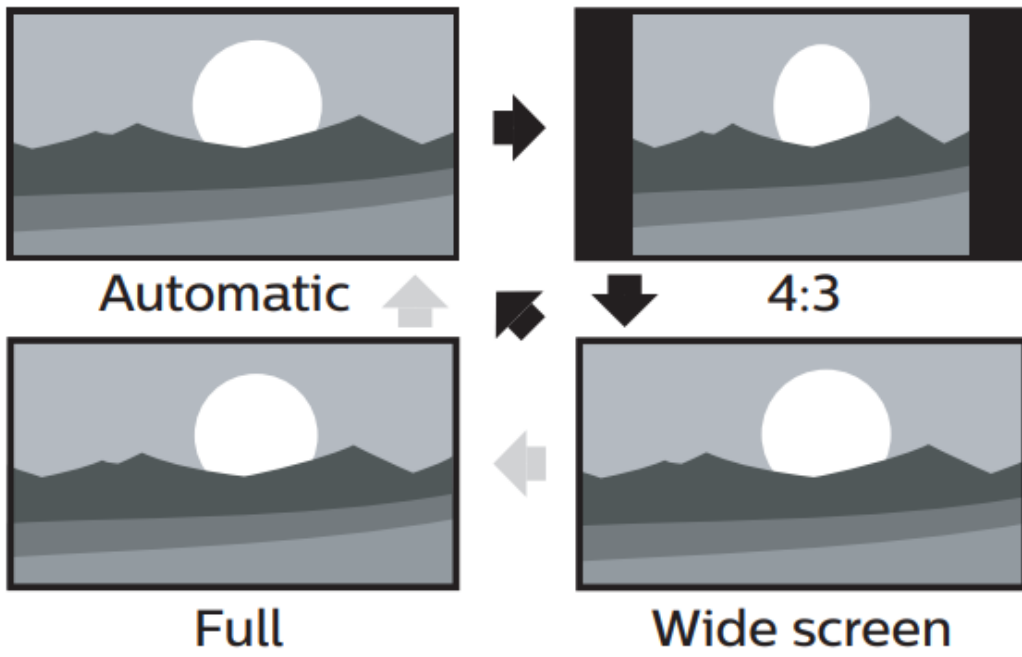
For 16:9 video signal (4096 x 2160p)



For 16:9 video signal (3840 x 2160p)

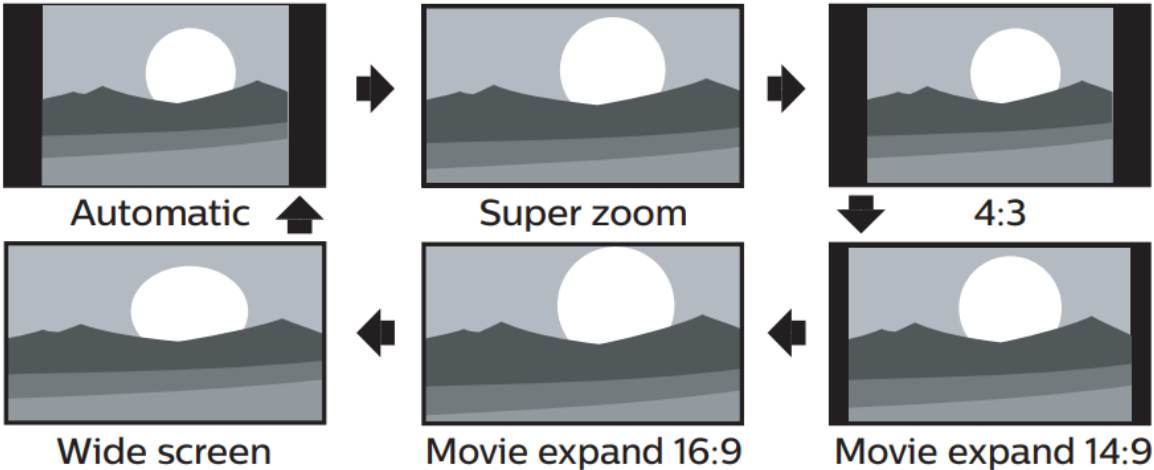


For 16:9 video signal (not 2160p)



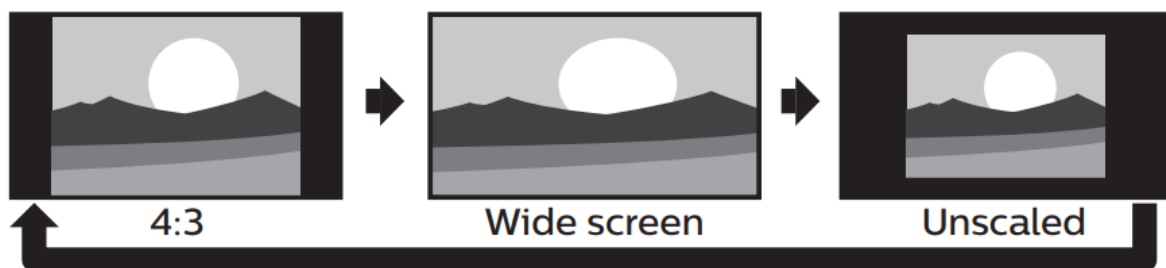
Automatic	Other than DTV and HDMI connected devices, enlarges the picture to best fit the screen. DTV and HDMI connected devices display the picture at its original size. The subtitles may remain visible.
4:3	Displays a 16:9 picture at a 4:3 size; the picture is shortened horizontally. Sidebars appear on both edges of the screen.
Wide screen	Displays a 16:9 picture that is stretched horizontally and vertically.
Unscaled	Displays a 16:9 picture at its original size.
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.

For 4:3 video signal



Automatic	Other than DTV and HDMI connected devices, enlarges the picture to best fit the screen. DTV and HDMI connected devices display the picture at its original size. The subtitles may remain visible.
Super zoom	Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically and its left and right edges are enlarged. This crops out some of the top and bottom of the picture.
4:3	Displays a 4:3 picture at its original size. Sidebars appear on both edges of the screen.
Movie expand 14:9	Displays a 4:3 picture at a 14:9 size; the picture is stretched horizontally and vertically. This crops out some of the top and bottom of the picture. Sidebars appear on both edges of the screen.
Movie expand 16:9	Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically. This crops out some of the top and bottom of the picture.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.

For PC input signal



- This unit can also be connected to your PC that has a DVI terminal. Use an HDMI-DVI conversion cable for this video connection and it requires stereo mini 3.5mm plug audio cable for analog audio signal as well.
- Refer to 16:9 video signal on this page if the PC has HDMI output.

4:3	Displays a proportionately stretched picture. Sidebars appear on both edges of the screen.
Wide screen	Displays a picture that is stretched out of proportion to fill the screen.
Unscaled	Displays a picture in its original size.

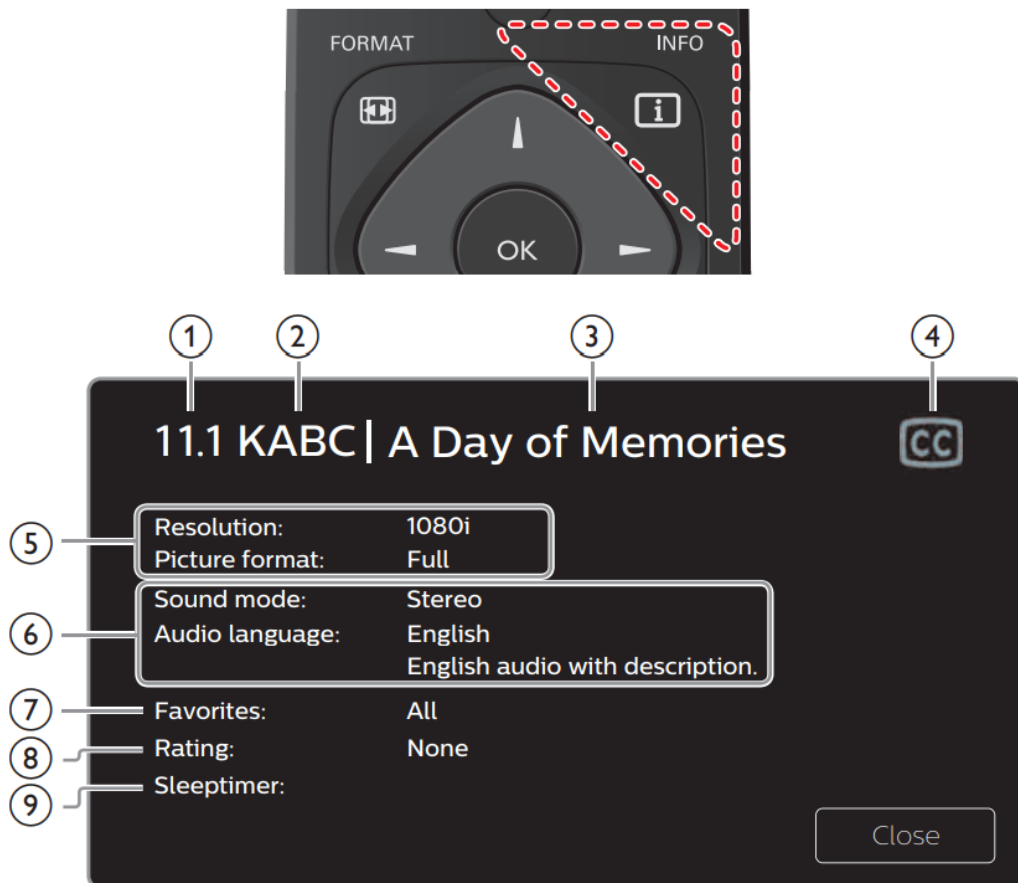
If the signal source has side or top-bottom bars inserted into the picture, the Picture format function will not eliminate them.

TV screen information

You can display the currently selected channel or other information such as the aspect ratio on the TV screen.

In the digital mode, the detailed broadcasting information for the current off-the-air channel such as program title and program guides are displayed.

1. Press  INFO.



1. Channel number / Input mode
 - Switching channels → p. 19
 - Watching channels from an external device → p. 20
2. Broadcast station
3. Program title (for DTV only)
4. CC (not available if Closed caption is set to Off)
 - Caption settings → p. 31
5. Program's image aspect ratio
 - Changing Picture format → p. 21

6. Audio language (DTV) / Audio mode (Analog TV)

- Sound → p. 30 !

7. Favorites


- Create a list of favorite channels → p. 21

8. Child lock rating

- Child lock → p. 36

9. Remaining time on sleep timer

- Sleptimer → p. 32


2. Press  INFO to hide the information.

Note(s)


- While the program guide is displayed, the closed caption function is interrupted.
- The information display will automatically disappear in 5 seconds.

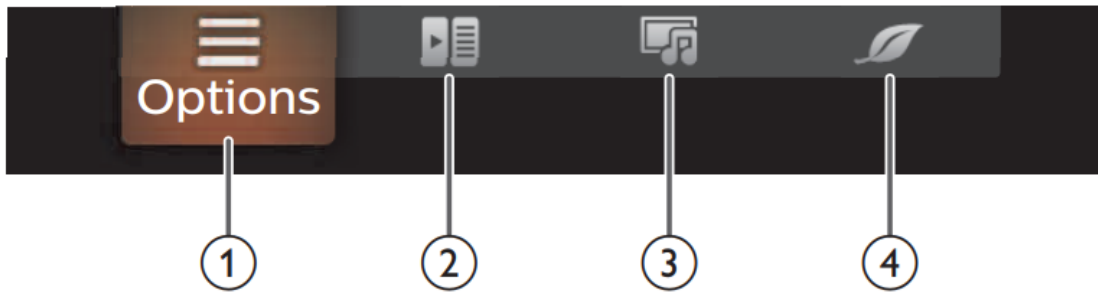
Using options menu

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



① Options

Following settings can be configured




Closed captions	To choose the Closed captions display setting. Closed captions → p. 31
Digital audio language	To Select the language according to your preference. (It differs depending on the program.) Digital audio language → p. 37
Mono/Stereo	To Select an audio format. Mono/Stereo → p. 37

② Controls

If you have our brand products such as Blu-ray disc player or DVD recorder that are compatible with EasyLink functions, connect them to this unit via an HDMI cable so you can simply operate various items from this unit's remote control.

Before you begin: select a device connected to an HDMI connection. → p. 20 You must set On in Master EasyLink. → p. 34

Otherwise, LINK does not work even if you connected our brand devices to this unit.

1. Press  OPTIONS to display options menu.
2. Use  to select Controls then press OK.
3. Use  to select the desired item, then press OK.

Device-menu	Controls the menu of your connected EasyLink device.
Device-contents	Controls the top menu of your DVD or Blu-ray discs.
Device-favorite	Controls the pop-up menu of your Blu-ray discs.

Note(s)

- Some of EasyLink functions may not be available depending on your EasyLink devices or discs.
- You must connect this unit to our brand EasyLink devices and be sure its EasyLink (HDMI CEC) setting is also set to On.
- We do not guarantee 100% interoperability with other brands of HDMI link compliant devices.

3

Picture and sound

Following settings can be configured

Auto picture	To set predefined picture mode. Picture → p. 28
Auto sound	To set predefined sound mode. Sound → p. 30
Headphone volume	To adjust headphone volume. Sound → p. 30
TV speakers	To Select the audio output from the unit's speakers or not. Sound → p. 30
Picture format	To switch the TV aspect ratio. Changing Picture format → p. 21
Setup	To display setup menu.

4




ECO settings

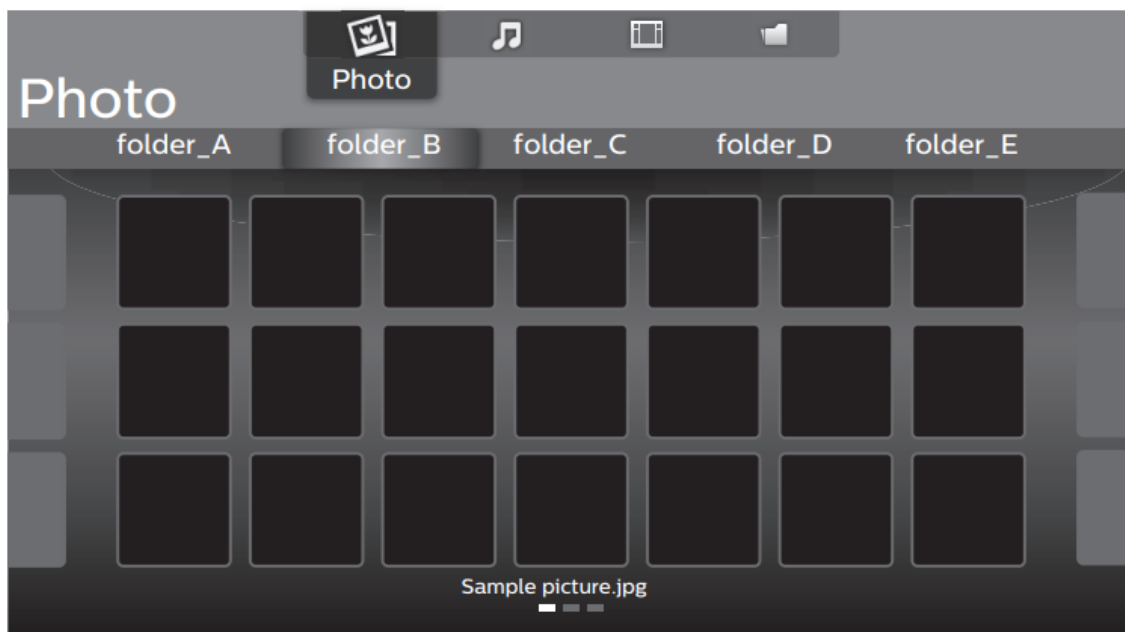
Following settings can be configured.

Switch off timer	<p>You can turn off the unit automatically when there is no operation for specified time. In spite of this setting, the unit goes into standby mode automatically if there is no signal input and no user operation for 15 minutes.</p> <p>Press ▲ repeatedly to change the amount of time (increases the time by 30 minutes up to 240 minutes).</p> <p>Each press ▼ of will decrease the time by 30 minutes.</p> <p>To cancel the timer, press ▼ repeatedly until "0" is displayed.</p>
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USB

Your TV is fitted with a USB connection that enables you to view photos, listen to music or watch video files stored on a USB memory stick.

1. Press  SOURCE and use  to select USB, then press OK.
2. Use  to select the desired file, then press OK.



- These recorded files must meet specifications shown below:

Picture (JPEG / Progressive JPEG)		
JPEG	Upper limit	4000x4000 pixels
Progressive JPEG	Upper limit	1024x768 pixels

Music (MP3 / WAV / AAC)		
MP3	Sampling frequency	16 kHz - 48 kHz
	Constant bit rate	8 kbps - 320 kbps
WAV	Sampling frequency	8 kHz - 48 kHz
	Constant bit rate	64 kbps - 1.5 Mbps
AAC	Sampling frequency	8 kHz - 48 kHz
	Constant bit rate	-

Video (MPEG / VOB / AVI / MP4)						
Maximum video	H.264, H.265/HEVC: 3840x2160@30fps, MPEG: 1920x1080@60fps					
Extension	.avi	.mpg, .mpeg	.ts, .trp, .tp	.vob	.mp4	.mkv
Video codec	MPEG1, MPEG2, MPEG4, H.264	MPEG1, MPEG2, MPEG4	MPEG1, MPEG2, H.264, H.265/ HEVC	MPEG1, MPEG2	MPEG1, MPEG2, MPEG4, H.264, H.265/ HEVC	MPEG1, MPEG2, MPEG4, H.264, H.265/ HEVC
Audio codec						
Dolby Digital	YES	YES	YES	YES	YES	YES
MPEG1/2 audio layer1/2/3	YES	YES	YES	YES	NO	YES
LPCM	YES	YES	YES	YES	YES	YES
AAC-LC	YES	YES	YES	YES	YES	YES









Note(s)




- This unit accepts USB memory stick only. Other storage devices such as external HDD by USB bus power will not work.
- Do not use an extension cord and/or USB hub to connect devices to this unit. Always directly insert the USB flash memory stick to this unit directly.



- We cannot be held responsible if your USB memory stick is not supported, nor will we accept any liability for damage or loss of stored data.
- The USB memory stick is not supplied with this TV.
- A maximum of 1,023 folders or files can be recognized.
- A file name exceeding 256 characters or contains a dot character is not supported on this TV.
- A USB memory stick that required its own driver or the device with a special system such as fingerprint recognition are not supported.
- Be sure to keep a backup copy of the original files on your USB device before you play them back on this unit. We have no responsibilities for damage or loss of your USB stored data.
- To avoid damaging the USB memory stick and the unit always turn off the unit before you remove the USB memory stick.
- This unit is not allowed to use the USB memory stick which requires external power supply (500 mA or more).
- This unit does not support MTP (Media Transfer Protocol) or the file other than FAT16 and FAT32 file system. If the file is not supported, an error message appears.
- When the unit does not recognize the USB memory stick, try reconnecting it.
- Playing the files recorded with high bit rates, the images can be interrupted in some occasions.
- This unit does not support external subtitles.
- This unit cannot play back a file which goes over the limit of file restriction limit.

Viewing photos

1. Use  to select Photo, then press OK.
2. Use  to select the desired item, then press OK.
3. Press OK or  to start a slide show of the files.
 - Press OK or  to pause the slide show.
 - The  icon appears.
 - Press  to move between images.
 - Press  BACK or  to stop the slide show.

Press  OPTIONS to display the optional menu, then use   to select the desired item.












Repeat *1	Off	Sets repeat playback to off.
	One	Sets repeat playback for a selected image file.
	All	Sets repeat playback for all image files in the current folder.
Slide time *1	Short	Switches to the next image in 5 seconds.
	Medium	Switches to the next image in 10 seconds.
	Long	Switches to the next image in 15 seconds.
Transitions *1	None	No effect when switching images.
	Dissolve	Overlaps the next image on the current image.
	Wipe right	Pushes the current image out from left.
	Wipe left	Pushes the current image out from right.
	Wipe up	Pushes the current image out from bottom.
	Wipe down	Pushes the current image out from top.
	Box in	The next image comes to the center from the outside.
	Box out	The next image goes to the outside from the center.

Rotate *2	0	Displays an image in its original direction.
	90	Rotates an image 90 degrees clockwise.
	180	Rotates an image 180 degrees clockwise.
	270	Rotates an image 270 degrees clockwise.
Zoom *2	1X	Displays an image in its original size.
	2X	Magnifies a current image by 2 times.
	4X	Magnifies a current image by 4 times.
Auto picture *1	Selects the picture mode according to your preference. (Standard, Natural, Vivid, Sports, Movie, Game, Energy saving and Internet video)	

*1 You can set Repeat, Slide time, Transitions and Auto picture when images are in slide show.













*2 You can set Rotate and Zoom when slide show is in pause mode.

Playing music

1. Use  to select Music, then press OK.
2. Use  to select the desired item, then press OK.
3. Press OK or  to play the selected files.
 - Press OK or  to pause, then press OK or  again to resume.
 - Press  to fast-forward search.
 - Press  to fast-backward search.
 - Press  to stop playback.
 - Press  OPTIONS to display the optional menu, then use   to select the desired item.

Repeat	Off	Sets repeat playback to off.
	One	Sets repeat playback for a selected music file.
	All	Sets repeat playback for all music files in the current folder.
Shuffle	Off	Sets shuffle playback to Off.
	On	Sets shuffle playback for all music files in the current folder.
TV Speakers	Off	The sound will not be output from the unit's speakers.
	On	The sound will be output from the unit's speakers.
	Speakers EasyLink	You can control audio output from your connected EasyLink compliant devices with VOL + / - by using this unit's remote control.
Auto sound	Selects the sound mode according to your preference. (Standard, Vivid, Sports, Movie, Music and News)	

Playing movies

1. Use  to select Movie, then press OK .
2. Use  to select the desired item, then press OK .
3. Press OK or  . to play the selected files.
 - Press OK or  . to pause, then press OK or  . again to resume.
 - Press  to fast-forward search.
 - Press  to fast-backward search.
 - Press  . to stop playback. Press  . to resume from the point at which playback was stopped. Press OK to play from the beginning of the file.
 - Press  OPTIONS to display the optional menu, then use   to select the desired item.


Repeat	Off	Sets repeat playback to off.
	One	Sets repeat playback for a selected video file.
	All	Sets repeat playback for all video files in the current folder.
TV speakers	Off	The sound will not be output from the unit's speakers.
	On	The sound will be output from the unit's speakers.
	Speakers EasyLink	You can control audio output from your connected EasyLink compliant devices with VOL + / - by using this unit's remote control.
Auto picture	Selects the picture mode according to your preference. (Standard, Natural, Vivid, Sports, Movie, Game, Energy saving and Internet video)	
Auto sound	Selects the sound mode according to your preference. (Standard, Vivid, Sports, Movie, Music and News)	


Note(s)

- The resume information will be kept even when the unit is Turned off.
- If you play another file while the previously viewed file is being resumed, the resume information of the previously viewed file will be deleted.
- The file or the folder in resume stop mode will be highlighted in gray on List or Thumbnails .



Troubleshooting

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	<ul style="list-style-type: none"> • No power 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Control buttons do not work. 	<ul style="list-style-type: none"> • Do NOT press more than one button at the same time. • Ensure that no buttons on the remote control are depressed and move freely.
	Universal remote control does not work properly.	Refer to the User manual of the universal remote control for the Philips code.
Picture	<ul style="list-style-type: none"> • Power is on but no screen image. 	<ul style="list-style-type: none"> • Check whether the connection for the antenna, cable or set-top box is connected correctly. • 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. • Make sure that the selected input mode is connected to the working input jack. • Check if your computer is NOT in sleep mode when the input mode on this unit is in PC mode. Tap any key on the computer keyboard to wake it up. • Check if the correct input mode is selected by pressing  SOURCE.
	No color	<ul style="list-style-type: none"> • View other TV channels. The problem might be limited to the broadcasting station.

		<ul style="list-style-type: none"> • Adjust Color in Picture settings. → p. 28
	Picture poor	<ul style="list-style-type: none"> • Adjust Contrast and Brightness in Picture settings. → p. 28 • For the best picture quality, watch “High Definition” wide screen programs. If the HD content is not available, watch “Standard Definition” programs instead.
	You see pixelation on the screen.	When the capabilities of the unit exceed the capabilities of the digital broadcasting, the signal will be increased to match the capabilities of the display on the unit. This may cause pixelation, noise or trash.
	Unusual picture appears and the TV does not operate.	<ul style="list-style-type: none"> • Press the power button first. If it does not solve, follow the procedure below <ol style="list-style-type: none"> 1. Press the buttons on the remote control in the order shown below.  2. Unplug the AC power cord, then wait for 1 minute, and then plug it in again.
Sound	<ul style="list-style-type: none"> • No sound is heard when using the HDMI digital connection. 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Make sure that the analog audio signals from the HDMI-DVI device are connected to the analog audio input L/R jacks. • When using Component analog video, Composite analog video or PC VGA 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.	<ul style="list-style-type: none"> • 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. 30
Picture & Sound	<ul style="list-style-type: none"> • No sound with distorted picture occurs when using the HDMI digital connection. 	<ul style="list-style-type: none"> • Some HDMI cables and devices may not be compatible with the TV due to different HDMI specifications.
	No picture or sound	<ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> • 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. • Check if your computer is NOT in sleep mode when the input mode of this unit is in PC mode. Tap any key on the keyboard to wake up your computer. • Make sure that the sound is not muted. Press  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 . 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. • 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. (Refer to HDMI mode → p. 33)
<p>Adjusted Picture or Sound settings are not effective every time the unit is turned on.</p>	<p>You must set Home in Location. → p. 33 (Otherwise, the settings you adjusted will not be memorized after the unit goes into standby mode.)</p>
<ul style="list-style-type: none"> • You see a distorted picture or hear an unusual sound. (Analog TV - NTSC signal) 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.
Child and rating lock	Forgotten PIN code	Enter "07 1 1" to clear your password
Screen	<ul style="list-style-type: none"> • You switch to a different input and the screen size changes. 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • If you are using the unit as a PC monitor, make sure that Horizontal position and Vertical position in Picture are set correctly. → p. 28 • If you are watching TV or using the Composite video, Component 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	<ul style="list-style-type: none"> • Closed captions are displayed as a white box. No closed captions are displayed in the closed 	<ul style="list-style-type: none"> • 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

	captions-supported program.	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 select Update to start USB update or network update.
Network	<ul style="list-style-type: none"> • Cannot connect to the network. 	<ul style="list-style-type: none"> • Check if the Ethernet cable connection is properly made. Turn on the broadband router and/or modem. • Check the network settings. • Check if the broadband router and/or modem is correctly connected.
	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.	<ul style="list-style-type: none"> • Check the installation location of the TV and wireless router (access point). Signal quality may be affected for the following reasons. <ul style="list-style-type: none"> ◦ Interference of other wireless devices, microwaves, fluorescent lights, etc., are placed nearby. ◦ There are floors or walls between the wireless router and TV.

	<ul style="list-style-type: none"> ◦ If the problems continue even after checking the above, try making a wired LAN connection
Cannot use the wireless connection.	<ul style="list-style-type: none"> • 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 such as Net TV
Cannot use Netflix feature.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • VUDU is available only in the United States and Mexico. • Check if the network connection is properly made.

<p>Cannot rent or buy movies / TV episodes on VUDU.</p>	<ul style="list-style-type: none"> • 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.
<p>The picture quality of a streaming movie (Netflix or VUDU) is poor.</p>	<p>Check the speed of your internet connection. You need speeds of at least 8 Mbps to this player for high quality uninterrupted playback.</p>
<p>Streaming movie (Netflix or VUDU) often stops or starts buffering during playback.</p>	<p>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.</p>
<ul style="list-style-type: none"> • Cannot connect to the network while my PC is connected to the network. 	<p>Check the content of your internet service contract to see if your internet service provider prevents multiple terminals connecting at the same time.</p>
<p>Cannot use Easy Connect to connect to the access point.</p>	<ul style="list-style-type: none"> • 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 Easy connect again. (For access point configuration, please consult its user manual or manufacturer.) <p>* 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.</p>
<p>Folder or files stored on home network media server are not displayed in the file</p>	<ul style="list-style-type: none"> • Check the setting on your home media server. (Refer to the user manual of the home media server.)

list or cannot be played back.	<ul style="list-style-type: none"> • Check the network connection and settings.
Cannot use Pandora feature.	<ul style="list-style-type: none"> • Check if the network connection is properly made. • Pandora is available only in the United States. • You must create a Pandora account and activate this unit.
Wireless Screencasting	<ul style="list-style-type: none"> • Connectivity with all Wireless Screencasting compatible devices is not guaranteed. • Devices that do not comply with Wireless Screencasting standards may have compatibility issues.

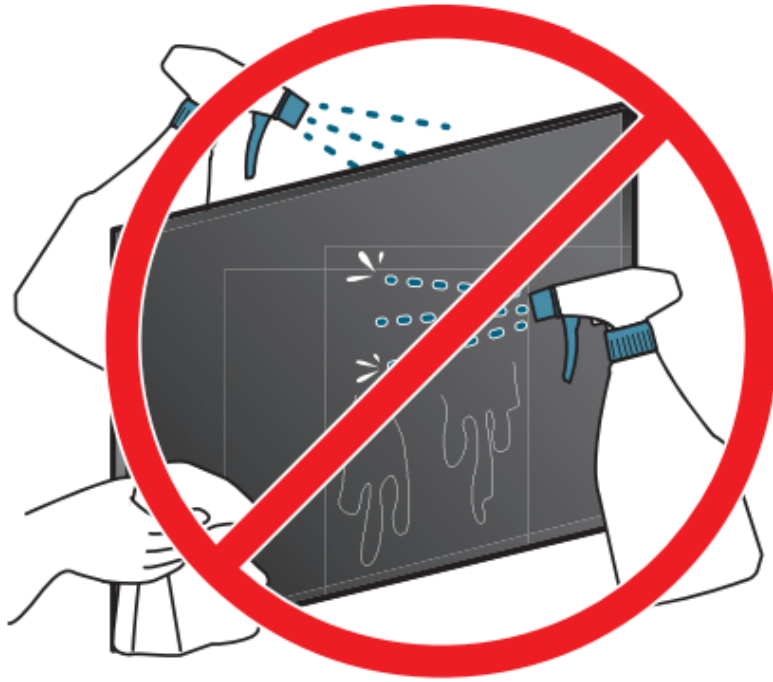
Note(s)

- 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.

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.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.