

3 series User manual

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Know these **safety** symbols



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

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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

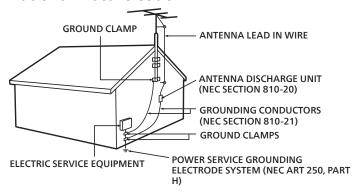
- 1. Read these instructions.
- **2.** Keep these instructions.
- 3. Heed all warnings.
- **4.** Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- **7.** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **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
32PFL3453/F7 A 32PFL3453/F7 C 32PFL3453/F7 D	SANUS	AST16	M4 x 0.472" (12 mm)	3.93" x 3.93" (100 x 100 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.

- Install the wall mount bracket on a sturdy vertical wall.
- 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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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

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.

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 interference received, including interference that may cause undesired operation.

Declaration of conformity

: PHILIPS Trade name

: Funai Corporation, Inc. Responsible party

: 32PFL3453/F7 A, 32PFL3453/F7 C, Model

32PFL3453/F7 D

: 12489 Lakeland Road, Santa Fe Address

Springs, CA 90670, USA³

Telephone number : 1833 978 3323

* 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.

The following FCC 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 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 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
- 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.

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.



Stability Hazard

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

- Always use cabinets, stands, or mounting Instructions recommended by the manufacturer of the television set.
- Always use only furniture that can safety support the television set.
- Always ensure the television set is not overhanging the edge of the supporting furniture.
- Always educate children about the dangers of climbing on furniture to reach the television set or its controls.
- Certainly wire the cords and cables connected to television set that cannot be routed, pulled, and pinched.
- Not placing the television set on unstable place.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Not placing anything such as toys or controls that tempts children onto a TV or furniture which a TV is placed.

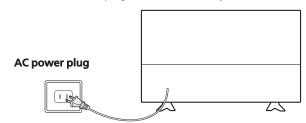
If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

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.

Press \circlearrowleft 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 or a compressed air 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

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.

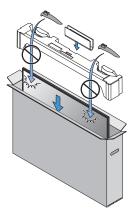
- · Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, Li-ion, etc.) batteries.

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.

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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

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.

· Auto scan

This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.

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.

HDMI-CEC via HDMI link

HDMI-CEC 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

AV input

Audio and video input from an external device.

USB terminal

The picture (JPEG) files stored on a USB memory stick can be played back on this unit.

Digital audio output

Digital audio (Supporting Dolby Digital) sent to home theaters and other digital audio systems.

Headphone audio output

Headphone 3.5 mm stereo jack for personal listening.

Included accessories

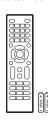
Quick start guide



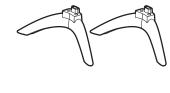
Screws



TV remote with batteries



TV stands



Screws packed with this unit.

Mod	lel	Quantity	Size
32PFL345 32PFL345 32PFL345	3/F7 C	4	ST4 x 0.472" (12 mm)



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:

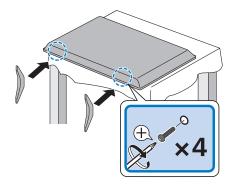
Digital TV operation

Cable/NTSC (Analog) TV operation

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

Installing the stands

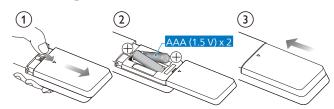
- 1 Fasten the stand to the TV with 4 screws.
- While fastening the screws, hold the stand to prevent it from falling.
- Both stands should now be securely fastened.





- 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 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.

Installing the remote control batteries

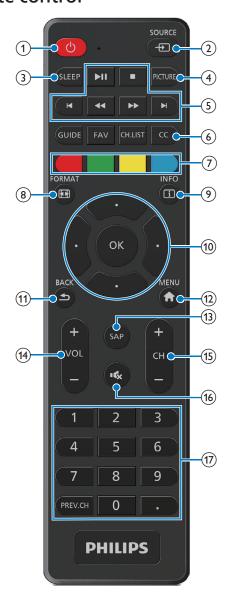


- 1 Slide the battery cover off the back of the remote control.
- 2 Insert the two included batteries (AAA, 1.5V). Be sure the + and ends of the batteries line up with the markings inside the case.
- 3 Slide the cover back into position.

Note(s

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

Remote control



1) () (Power)

Turn TV on and off.

② **⊕** SOURCE

Select input source for connected devices.

(3) SLEEP

Set the sleep timer.

(4) PICTURE

Adjust the picture mode.

(5) HDMI-CEC keys

► II : 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)

• You must set on in the CEC - p. 31 to operate the above functions.

(6) CC

Turn Closed captioning on and off.

(7) Color buttons

Use these keys according to the directions on-screen with HDMI-CEC function.

(8) ED FORMAT

Adjusts the picture size on the TV screen.

9 i INFO

Displays information about the current program.

(10) Direction pads and OK

Move the cursor and determin on the various menu.

(11) **≤** BACK

Exit Menu.

12 A MENU

Display main menu.

(13) SAP

Selects audio mode (MONO/STEREO/SAP)/audio language.

(14) VOL+/-

Increase/decrease volume.

(15) CH+/-

Selects a channel.

(16) **•≰** (Mute)

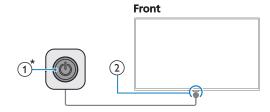
Mute the sound on and off.

(17) Numeric button and dot

Enter numeric number 0-9 and dot to specify channel number.

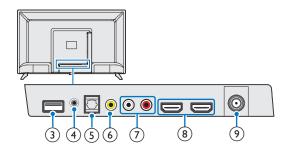
PREV.CH: Returns to the previously viewed channel.

Control panel



- (1) Power button
 - * Power button is located at the bottom side of the TV.
- (2) Remote control sensor

Terminals



(3) USB port

Connect a USB flash drive for playing photos and movies. Following file formats are supported.

- Image JPEG (.JPG)
- Video MotionJPEG (.AVI)
- 4 Headphone audio output jack
 Headphone 3.5mm stereo jack for personal listening.
- (5) Digital audio (S/PDIF) output
 High quality audio connection with optical (TOSLINK) cable.
 Connect sound bars or home theater system.



Note(s)

Use an optical (TOSLINK) to coaxial (RCA) adapter (not included) for devices which only have a coaxial input.

- (6) Composite video input jack
- (7) Analog audio (L/R) input jacks
- (8) HDMI input jacks

High quality audio and video connection.

Connect Blu-ray Disc or DVD player/Cable, satellite, or IPTV box/Gaming console, etc.

HDMI1 is available as HDMI-ARC. It outputs TV audio to an HDMI-ARC compliant device, such as sound bars or home theater system.

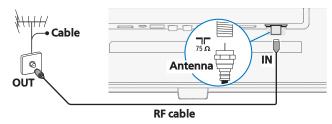
(9) 75 ohm cable/Antenna/Satellite box connection

Connecting antenna or cable/satellite set-top

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

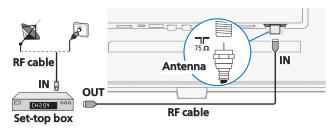
If connecting to an antenna through an RF cable

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



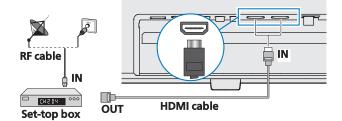
If connecting cable/satellite set-top box using an RF cable

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



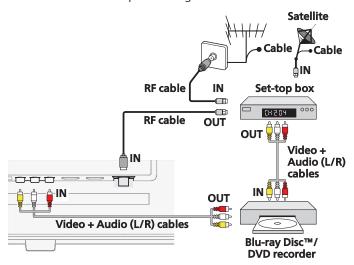
If connecting cable/satellite set-top box using an HDMI cable

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 **D SOURCE**.



Connecting a cable/satellite 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 signals 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.
- Refer to the Quick start guide that shows the connections for the HDMI or component input mode.

Plugging in the AC power cord

Make sure all the necessary connections are made before the AC power cord is plugged into an AC outlet.

!

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.

Below cables are not included with the TV and need to be purchased separately:

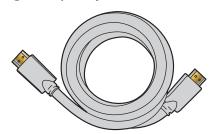
• Please purchase the necessary cables at your local store.

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.



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.

Composite - Basic quality

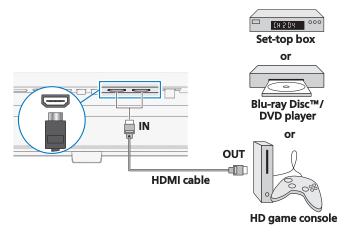


For analog connections. Composite video/Audio analog cable usually combine a yellow video cable with red/white audio (L/R) cables. With this unit, yellow cable must be connected to Y (yellow) jack on the composite video input jacks.

Connecting your devices

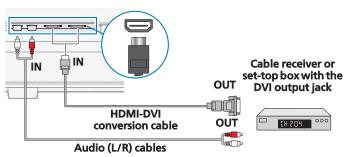
HDMI digital connection

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



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)

 Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.

For HDMI connection

- The unit accepts 480i/480p/720p/1080i, 1080p 24/30/60Hz of video signals,
- 32kHz/44.1kHz and 48kHz of audio signals.
- If you are using a source capable of greater resolution such as 4K or 4K HDR, please lower the output resolution on the device to 1080p@60Hz.
- This unit accepts a 5.1 channel audio signal (Dolby Digital) and 2 channel audio signal (LPCM).
- This unit accepts only signals in compliance with EIA861.

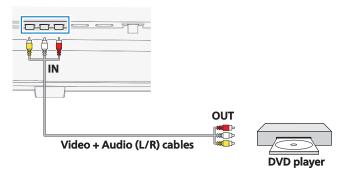
For HDMI-DVI connection

- The unit accepts 480i, 480p, 720p, 1080i, and 1080p 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.

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.



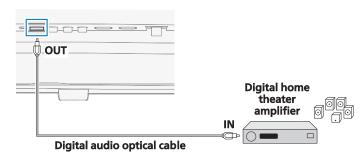
Note(s)

- 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.

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.

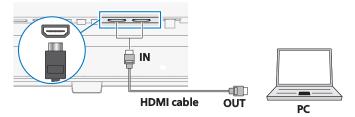
Use a digital audio optical cable to connect the unit to external digital audio devices.



PC connection

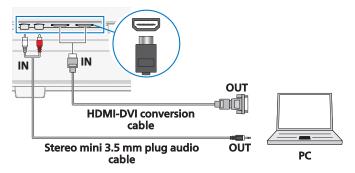
HDMI connection

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 3.5 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		
SVGA	800 x 600		
XGA	1,024 x 768	60 Hz	
WXGA	1,280 x 720	00112	
VVXGA	1,366 x 768		
FHD	1,920 x 1,080		

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

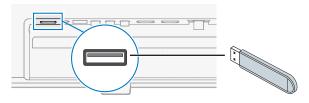


- Please purchase a HDMI-DVI conversion cable that has a ferrite core.
- The following operations may reduce noise.
 - Attach a ferrite core to the AC power cord of your PC.
- Unplug the AC power cord and use the built-in battery of your portable/laptop PC.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High speed HDMI cable is recommended for the better compatibility.
- The unit accepts 480i, 480p, 720p, 1080i, and 1080p 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.

USB memory stick

This unit offers easy playback of picture (JPEG) files.
Insert the USB memory stick into the USB terminal shown below.

MULTIMEDIA → p. 32



Picture (JPEG) Upper limit 4000 x 4000 pixels		4000 pixels	
	Size	400 x 240	
Video	Frame rate	30fps	
(Motion JPEG)	Audio type	LPCM	Sampling frequency (32 kHz, 44.1 kHz, or 48 kHz) Quantization bit rate (16 bit)

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 included 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 writeprotect 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).
- Only a Motion JPEG file with an ".AVI" extension is supported. An extension ".MOV" is not supported.

These operations are accessible by remote control.

Some may also be accessible by the main unit's control
panel.

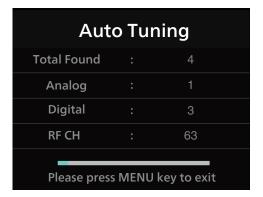
Setup Wizard

This section will guide you through the unit's Setup Wizard which includes selecting a language for your On-screen menu and auto scan, which automatically scans and memorizes viewable channels.

Before you begin:

Make sure the unit is connected to an antenna or cable.

- 1 After making all the necessary connections, follow either instruction below.
 - In case of 1st time setup of new TV, press Setup Wizard menu appears automatically after the unit is turned on.
 - In case you would like to redo Setup Wizard, Press MENU on the remote control and go to Setup submenu -> Setup Wizard option.
- 2 Use ▲▼ to select Menu Language and use ◀▶ to select English, Spanish, or French.
- 3 Use ▲ ▼ to select Go to next step and press OK.
- 4 Use ▲ ▼ to select Time Zone and use ◀ ► to select Pacific/ Alaska/Hawaii/Atlantic/Eastern/Central/Mountain.
- 5 Use ▲ ▼ to select Daylight Saving Time and use ◀ ► to select On/Off.
- 6 Use ▲ ▼ to select Time Format and use ◀ ► to select 24-hour/12-hour.
- 7 Use ▲ ▼ to select Go to next step and press OK.
- 8 Use ▲ ▼ to select Antenna/Cable and use ◀▶ to select Antenna/Cable.
 - 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.
- 9 Use ▲ ▼ to select Go to next step and press OK.
 - · Auto Tuning will begin.



After the Setup Wizard is completed...

- If you want to scan the channels automatically again.
 Start Scan → p. 23
- You can add the desired cable and analog channels not memorized by auto scan.

Favorite → p. 24

If you want to change to another language.
 Menu Language → p. 28

3 Use your TV

Switching on your TV and putting it in standby mode

Remote control



To turn the TV on from standby or off to standby

• Press () on the unit or the remote control.



• 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

Remote control



To decrease or increase volume

• Press VOL +/- on the remote control.

VOL +: Volume up **VOL** -: Volume down

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

Remote control



To select channels by using CH +/-

• Press CH +/- on the remote control.

To select channels by using the Number keys

- 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



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

• To select the non-memorized channels, use the Number keys.



- Note(s)
- 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
 a sound signal.

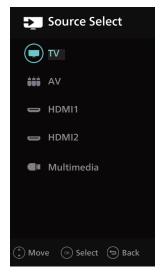
Watching channels from an external device

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.



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.

Sleep timer

Sleep timer can set the unit to go into standby mode after an incremental period of time.



Press **SLEEP** repeatedly to change the amount of time (increases the time by 5 minutes up to 240 minutes).



Press **SLEEP** once to call up the display for checking the remaining time.

 To cancel sleep timer, press SLEEP Repeatedly until Off is displayed.

Switching audio mode



- Press **SAP** to display the currently selected language.
- Press SAP repeatedly to cycle through the available audio languages.



- Note(s)
- Available languages differ depending on the broadcast.
- Other is displayed when the audio language cannot be acquired or the acquired languages are other than English, French, or Spanish.

Cable/NTSC (Analog) TV operation

- Press **SAP** to display the currently selected audio mode.
- While receiving an MTS broadcast, press SAP repeated by to cycle through the available audio channels.
 - e.g.) When all audio modes are available



Stereo : Outputs stereo audioMono : Outputs mono audio

SAP : Outputs a second audio program

Create a list of favorite channels

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

Add channels to create a favorite list, refer to Favorite → p. 24.

Display the list of favorite channels

After a favorite channel is added, press FAV, the favorite channels will display on the list.

You can use ▲ ▼ to change the channel at the favorite list menu.



Changing picture format

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

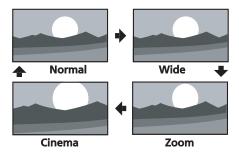
Two types of display modes can be selected for a PC input signal.

Press FORMAT repeatedly to switch the TV aspect ratio.

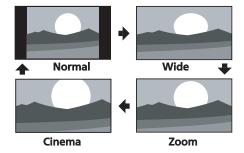


Normal	Automatically adjust aspect ratio based on TV size and TV program.
Wide	Use to watch wide screen (16:9) content.
Zoom	Expands image to fill screen. Top and button maybe cut off.
Cinema	Stretches image at edges but keeps a clear image in the center.
Full (DVI)	Displays a picture that is stretched out of proportion to fill the screen.
Point to point (DVI)	Displays a picture in its original size.

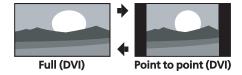
For 16:9 analog video signal



For 4:3 analog video signal



For HDMI input signal



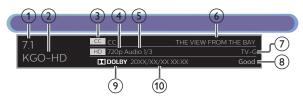
- This unit can also be connected to your PC that has a DVI terminal
- Use an HDMI-DVI conversion cable for this video connection and it requires a stereo mini 3.5mm plug audio cable for analog audio signal as well.
- Refer to 16:9 video signal on this page if the PC has an HDMI output.

TV screen information

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

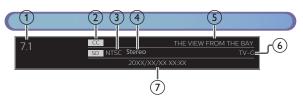
In the digital mode, the detailed broadcasting information for the current off the air channel, such as program title, are displayed.

1 Press i INFO.



- 1 Channel number
 - Switching channels → p. 16
- (2) Program title
- 3 CC (not available if Closed caption is set to Off)
 - Closed Caption → p. 28
- (4) Signal resolution
- 5 Audio information
 - Switching audio mode → p. 17
- (6) Broadcast station
- (7) Lock rating
 - Child and ratings lock → p. 25
- (8) Signal quality
- (9) Dolby
- (10) Clock

Cable/NTSC (Analog) TV operation



- (1) Channel number
 - Switching channels → p. 16
- 2 CC (not available if Closed caption is set to Off)
 - Closed Caption → p. 28
- (3) Signal resolution
- (4) Audio mode
 - Switching audio mode → p. 17
- (5) Broadcast station
- (6) Lock rating
 - Child and ratings lock → p. 25
- (7) Clock
- 2 Press I INFO to hide the information.



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

4 Getting the most from your TV

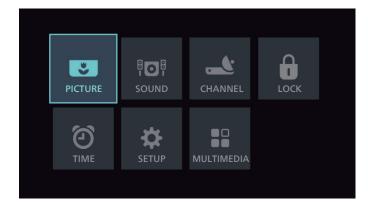
This section describes the overview of the main menu displayed when you press **A** MENU.

The main menu consists of the function setting items below.

Displaying the main menu

1 Press **MENU** to display the main menu.





2 Use ▲▼◀► to select the desired menu and an item, then press OK.

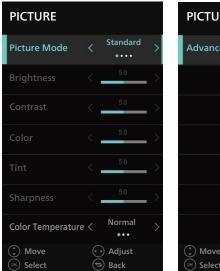


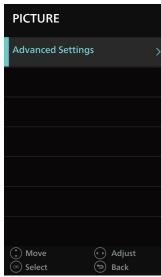
When the setting is completed, press ♠ MENU or ➡ BACK to exit.

Back to Contents Continued on next page.

PICTURE

1 Press ★ MENU and use ▲ ▼ ◆ to select PICTURE, then press OK.

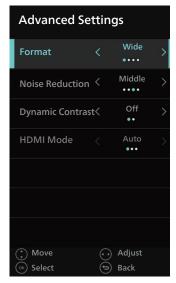




2 Use ▲▼◀► to select the item you want to adjust, then press OK.

press OK .			
Picture Mode	To select the desired setting, then press OK. (Standard, Dynamic, Soft, or User) The brightness, contrast, color, tint, and sharpness are only available in User mode.		
	◄ Cursor	Cursor►	
Brightness	To decrease brightness	To increase brightness	
Contrast	To decrease contrast	To increase contrast	
Color	To decrease color intensity	To increase color intensity	
Tint	To adjust color hues, especially to make stones appear more natural.		
Sharpness	To soften	To sharpen	
Color Temperature	To set the picture color temperature to Normal, Warm, and Cool. Increase or reduce warm color of the picture personally (red) and the cool color personally (blue).		
Advanced Settings	To select the desired setting, then press OK. (Format, Noise Reduction, Dynamic Contrast, and HDMI Mode)		

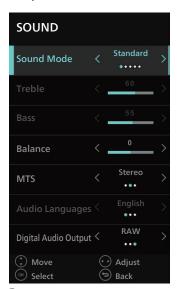
 You can set a particular picture quality using Advanced Settings.

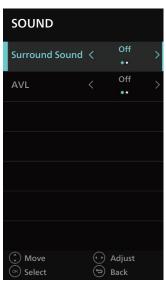


T.			
Format	Changing picture format → p. 18		
Noise Reduction	To select the desired setting, then press		
	■ . (Oπ, L	ow, Middle, or High)	
Dynamic	Off	To set Dynamic Contrast to Off	
Contrast	On	To enhance contrast in an image automatically	
	Auto	Automatic recognize the original input signal	
HDMI Mode	Video	Set the output image to video mode	
	Graphic	Set the output image to graphic mode	

SOUND

1 Press ★ MENU and use ▲ ▼ ◀ ► to select SOUND, then press OK.





2 Use ▲▼◀► to select the item you want to adjust, then press OK.

'		
Sound Mode	To select the desired setting, then press ■ . (Standard, User, Movie, Sports, or Music) The bass, treble, and balance are only available in User mode.	
	◄ Cursor	Cursor►
Treble	Adjust the treble effect. Increases or decreases high-pitched sounds.	
Bass	Adjust the bass effect. Increases or decreases lower-pitched sounds.	
Balance	Adjust the balance between left and right speakers to adapt to your listening position.	

You can set the output mode as a default for the sound mode (Analog TV only).

This setting is not interlocked when you change the output mode by pressing SAP. Refer to Switching audio mode → p. 17.

	Mono	To output mono audio
MTS	Stereo	To output stereo audio
14113	SAP	To output second audio
		program

Select the language supported by the chosen digital channel. It is available only in TV source.

Audio	To set your preferred language in the audio	
Languages	streaming (English, Spanish, or French).	

You can select audio output through a digital audio output connector.

Digital Audio Output	Off	To set Digital Audio Output to Off
	PCM	To output PCM format
	RAW	Original image coded date

Select the speaker sound effect to be surround or not.

Surround Sound	Off	To set Surround Sound to Off
	On	To set Surround Sound to On

This function keeps a constant loudness level between the TV commercials and the programs.

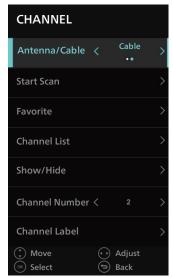
	Off	To remove the AVL
AVL	On	To reduce volume differences between the TV commercials and the programs

CHANNEL

Before you begin:

Make sure the unit is connected to antenna or cable.

Press MENU and use ▲ ▼ ◆ to select CHANNEL select Start Scan (option), then press OK.



2 Adjust the following items.

Antenna/Cable

Select signal type.

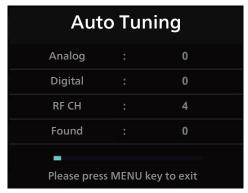
1 Use ▲ ▼ to select Antenna/Cable, then use ◀ ► to select the item.

Antenna	When Antenna is selected, the TV detects any Off-the-Air antenna signals. It searches for ATSC (Digital) and NTSC (Analog) channels available in your area.	
Cable	When Cable is selected, the TV detects signals supplied by cable. It searches for ATSC (Digital), NTSC (Analog), and Cable channels available in your area.	

Start Scan

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 Use $\blacktriangle \lor$ to select **Start Scan**, then press **OK**.



 When the scanning and memorizing of available channels is completed, the lowest memorized channel will be displayed.

Note(s)

- After setting Start Scan, using CH +/- skips unavailable channels automatically.
- If you are not receiving a signal from your cable service, contact the cable provider.
- If you press ⊕ or ♠ MENU during auto scan, the setup of TV channels will be cancelled.
- Even if Start Scan is completed, the channel setting will be lost if the AC
 power cord is unplugged before the unit goes into standby mode by
 pressing b.
- The PIN code will be required once you set a PIN code in the Child and ratings lock → p. 25.
- If you want to change your PIN code, follow the instruction for Change Password → p. 25.

Favorite

Add some channels to the Favorite List.

- 1 Use $\blacktriangle \nabla$ to select **Favorite**, then press **OK**.
- 2 Use ▲ ▼ to select the channel you want to add, then press OK.
 - If you need to cancel the favorite setting, select the favorite channel and press **OK** to cancel favorite setting.



Channel List

Display the Channel List menu.

- 1 Use ▲ ▼ to select Channel List, then press OK.
- 2 Use ▲ ▼ to select the channel you want to switch, then press OK.



Show/Hide

Show or hide the channels in your program list.

- 1 Use $\blacktriangle \lor$ to select **Show/Hide**, then press **OK**.
- 2 Use ▲ ▼ to select the channel you want to show/hide, then press OK.
 - If you need to cancel the **Show/Hide** setting, select the show/hide channel and press **OK** to cancel the setting.
 - The hidden channel can be skipped when selecting the channels using CH +/-, PREV.CH keys.
 - The hidden channels can still be selected with the Number keys.

Channel Number

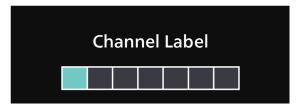
Show the channel number.

- 1 Use ▲ ▼ to select Channel Number.
- 2 Use **** to select 5.1/5.2/6.0/11.0/33.1/33.2/33.3.

Channel Label

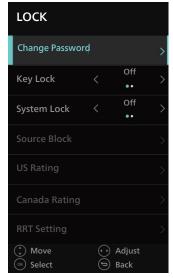
Create labels for channels, up to 7 characters.

- 1 Use $\blacktriangle \nabla$ to select **Channel Label**, then press **OK**.
- 2 Use ▲ ▼ ◀ ▶ to adjust.



LOCK

- Press ★ MENU and use ▲ ▼ ◆ to select LOCK, then press OK.
- 2 Use the Number buttons to enter the 4-digit numbers for your PIN code.
 - When you have not set up your PIN code, enter 0, 0, 0, 0.
 - When the PIN code is correct, LOCK menu is displayed.



3 Adjust the following items.

Change Password

Although the default PIN code (0000) is supplied with the unit, you can set your own PIN code.

- 1 Use ▲ ▼ to select Change Password, then press OK.
- Press the Number buttons to enter the new 4-digit PIN code.
 - Enter PIN code again in Confirm Password entry field.
 Note(s)
- Make sure to enter a PIN code and the confirm PIN code must be exactly the same. If they are different, the space is cleared to reenter the new PIN code.
- If you forget the PIN code, you can enter the "0711" universal password to enter the LOCK menu.

Key Lock

1 Use ▲▼ to select **Key Lock**, then use ◀▶ to select the item.

Off	Unlock the panel buttons on the TV.	
On	Lock the panel buttons on the TV.	

System Lock

Lock or unlock the buttons on the TV.

1 Use ▲ ▼ to select System Lock, then use ◀ ► to select the item.

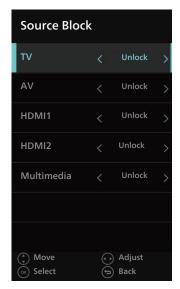
Off	Unlock the system.	
On Lock the system.		

Child and ratings lock

Source Block

Particular channels or external input modes can be invisible in this function.

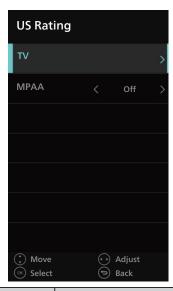
- 1 Use ▲ ▼ to select Source Block.
- 2 Use ▲▼ to select the particular channels or external input, then press ◀▶ to switch between block and unblock.



Setting US rating

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

- 1 Use ▲ ▼ to select US Rating, then press OK.
- 2 For US TV ratings, press OK to enter the sub ratings to lock or unlock the programs.
 - \square indicates that the rating is not locked (Viewable).
 - 🔒 indicates that the rating is locked (Blocked).
- For MPAA ratings, use **◄** to select the desired rating to switch between lock and unlock.



Movie ratings	TV ratings	Description
Off	_	No rating
_	All	All ratings locked including no rating
_	TV-Y	Appropriate for all children
_	TV-Y7 Appropriate for all children 7 a	
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
Х	TV-MA	Mature audience only

To set the sub ratings (displayed in the right column)

As for TV-Y7, TV-PG, TV-14, or TV-MA, you can further set the sub ratings to block specific elements within programs. To set the sub ratings, follow the step below.

Use $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ to select the desired rating, then press **OK** repeatedly to switch between \triangleq and \square .

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

US TV ratings	Sub rating
TV-Y7	(FV)Fantasy Violence
TV-PG	(D)Dialog
TV-14	(L)Language (S)Sex (V)Violence
TV-MA	(L)Language (S)Sex (V)Violence

Note(s)

- Blocked sub rating will appear beside the main rating category in US Rating menu.

Canadian English or Canadian French ratings

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

- 1 Use $\blacktriangle \lor$ to select Canada Rating, then press OK.
- 2 Use ▲ ▼ to select the desired rating, then use ◀ ▶ to select the desired rating to switch between lock and unlock.
 - Indicates that the rating is not locked (Viewable).
 - a indicates that the rating is locked (Blocked).

Canadian English rating	Canadian French rating	Description
0	ff	No rating
С	-	For all children
C8+	-	For all children 8 and older
G		General audience
_	8ans+	Unsuitable for ages under 8
PG	-	Parental guidance suggested
_	13ans+	Unsuitable for ages under 13
14+	_	Unsuitable for ages under 14
_	16ans+	Unsuitable for ages under 16
18+	18ans+	Adult audience only

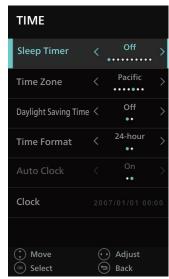
RRT Setting

Display an advance V-Chip rating table for digital channels. The item is available only When current stream has downloadable rating data.

1 Use $\blacktriangle \nabla$ to select **RRT Setting**, then press **OK**.

TIME

Press ★ MENU and use ▲ ▼ ◆ to select TIME, then press OK.



2 Adjust the following items.

Sleep Timer

Set a timer for the TV to turn off automatically.

- 1 Use ▲ ▼ to select Sleep Timer.
- 2 Use ◀▶ to select Off or 5 Min to 240 Min.

Time Zone

Select your time zone.

- 1 Use ▲ ▼ to select Time Zone.
- 2 Use **▼** to select Pacific/Alaska/Hawaii/Atlantic/Eastern/Central/Mountain.

Daylight Saving Time

Set the daylight saving time for your area.

1 Use ▲ ▼ to select Daylight Saving Time, then use ◀ ▶ to select the item.

Off	To set Daylight Saving Time to Off	
On	To set Daylight Saving Time to On	

Time Format

Select your time format.

- 1 Use ▲ ▼ to select Time Format.
- 2 Use **▼** to select 12-hour or 24-hour.

Auto Clock

Use to synchronize the display automatically.

1 Use ▲ ▼ to select Auto Clock, then use ◀ ► to select the item.

Off	To set Auto Clock to Off	
On	To set Auto Clock to On	

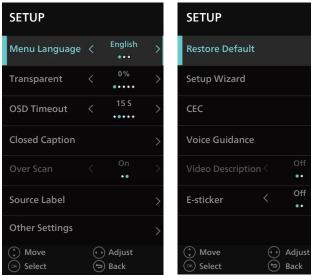
Clock

It is available only when the Auto Clock sets to be Off.

- 1 Use $\blacktriangle \lor$ to select Clock.
 - When the Auto Clock setting is Off, this item can be selected.
- 2 Press OK.
 - Then you can set the clock you want.

SETUP

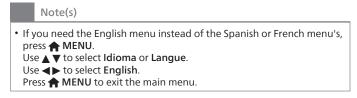
1 Press ★ MENU and use ▲ ▼ ◆ to select SETUP, then press OK.



2 Adjust the following items.

Menu Language

- 1 Use ▲ ▼ to select Menu Language.
- 2 Use **▼** to select **English**, **Spanish**, or **French**.



Transparent

Adjust the transparency of the OSD (on screen display) menu.

- 1 Use ▲ ▼ to select Transparent.
- 2 Use **◄** ► to select **0** %/**25** %/**50** %/**75** %/**100** %.

OSD Timeout

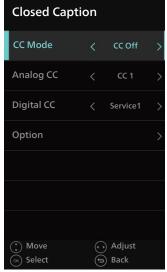
Adjust the duration of the OSD (on screen display) menu.

- 1 Use ▲ ▼ to select OSD Timeout.
- 2 Use **♦** to select 5 S/15 S/30 S/45 S/60 S.

Closed Caption

Closed captions display the audio portion of the program as superimposed text over the video.

1 Use $\blacktriangle \blacktriangledown$ to select Closed Caption, then press OK.



2 Use ▲▼◀► to select the feature you want to use.

You can choose the closed caption display.

	CC Off	Closed caption is not displayed.
CC Mode	CC On	Closed caption is always displayed.
	CC On Mute	Closed caption is displayed when the sound is off.

Cable/NTSC (Analog) TV operation

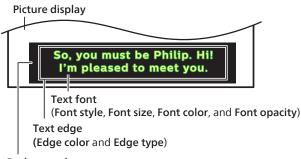
		The primary closed captions and text services. The closed
	CC 1 and Text1	captions or text is displayed in the same language as the program's dialog (up to 4 lines of script on the TV screen).
Analog CC	CC 3 and Text3	Serve as the preferred data channels. The closed captions or text is often a secondary language.
		Rarely available and broadcasters use them only in special conditions, such as when CC 1 and CC 3 or Text1 and Text3 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.

	Off	No Digital CC display
Digital CC	Service1 to	Select one of these before changing any other item in Closed Caption menu. Choose Service1 under normal conditions.

You can choose the font (size, color, etc), background, and other characteristics of the closed captions text.

	Mode		Set the look of digital Closed Captioning. Automatic uses broadcaster's style.
		Font Style	Closed
		Font Size	captioning font
	Font	FG Color	style, size, color, and transparency
Option		FG Opacity	(opacity) can be changed.
		BG Opacity	Background
	Background	BG Color	transparency (opacity) and color of the displayed caption can be switched.
	Edge	Font Edge Style	Edge color and type of the
		Font Edge Color	displayed caption can be switched.



Background (Background opacity)

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

Note(s)

- Digital CC that you can switch differs depending on the broadcast format.
- Closed captions service may not be controlled by this unit's menu options if
 you are watching television through a set-top box. In which case you will
 need to use the menu options on the external set-top box to control closed
 captions.
- The captions do not always use correct spelling and grammar.
 Not all TV programs and product commercials include closed captions information. Refer to your area TV program listings for the TV channels and times of closed captions shows. The closed captions programs are usually noted in the TV listings with a service mark such as CC.
- Not all closed captions services are used by a TV broadcaster during the transmission of a closed caption program.
- To show the closed caption on your TV screen, broadcast signal must contain the closed caption data.
- Captions and texts 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.

Refer to Closed Caption → p. 28

- If the unit receives poor quality television signals (mainly when the analog (NTSC) is received), 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 (Equipment Under Test) setting that satisfies § 79.102 (e) is as follows:
- Font: Mono-font
- Character size: Large

Over Scan

1 Use ▲ ▼ to select Over Scan, then use ◀ ► to select the item.

Off	To set Over Scan to Off
On	To set Over Scan to On

Source Label

Create labels for the devices connected to your TV.

- 1 Use ▲ ▼ to select Source Label, then press OK.
- Use ▲ ▼ to select the source and use ◀ ► to select Default/ Antenna/Cable/Satellite/DTV/DVD/Blu-ray/HD-DVD/ XBOX/Wii/PS3/Game/Computer/VCR/DV/Custom.



Other Settings

Set the parameter of audio only, no signal power off, and no operation power off.

- 1 Use $\blacktriangle \lor$ to select **Other Settings**, then press **OK**.
- 2 Adjust the following items.

Audio Only

Play the audio with the picture turned off.

Off	To set Audio Only to Off
On	When you turn the Audio Only on and exit the OSD menu, the panel will be dark and then press any key to exit the Audio Only status.

Restore Default

Change power on options or reset TV to factory default.

- 1 Use $\blacktriangle \nabla$ to select **Restore Default**, then press **OK**.
- 2 Use **▼** to select **Yes**, then press **OK**.

Setup Wizard

Set the first time installation.

- 1 Use $\blacktriangle \lor$ to select **Setup Wizard**, then press **OK**.
 - Only at TV source, the selection is displayed.
 - For detail please refer to Setup Wizard p. 15.

CEC

This function allows you to operate the linked functions between our brand devices with a HDMI-CEC feature and this unit connecting through an HDMI cable. You must connect this unit to our brand HDMI-CEC devices and be sure it's HDMI-CEC setting is also set to On.

1 Use $\blacktriangle \nabla$ to select **CEC**, then press **OK**.



Use ▲ ▼ to select the item you want to adjust, then use ◀
 to adjust it.

Set the **CEC Control** to **On** or **Off**. The following additional settings will be grayed out when you set them to **Off**.

	Off	Disables all HDMI-CEC.
CEC Control	On	Selects if you have connected an external device that is compatible with the HDMI-CEC function.

You can set your connected HDMI-CEC device to turn off by interlocking from this unit's power.

Device Auto	Off	Your connected HDMI-CEC device stays on even if the unit goes into standby mode.
Power Off	On	Your connected HDMI-CEC device turns off automatically when the unit goes into standby mode.

This unit will turn on when the power on signal is sent from your connected HDMI-CEC device.

TV Auto	Off	This unit stays in standby mode even if you turn on your connected HDMI-CEC device.
Power On	On	This unit turns on automatically when you turn on your connected HDMI-CEC device.

Audio receiver allows you to use CEC to output TV audio directly to a connected audio device, without the need for an additional digital audio cable. Only HDMI 1 mode has the audio receiver function.

	Off	Disable HDMI-audio receiver.
Audio Receiver	On	You can output TV audio through the HDMI cable solely, provided both the TV and device are HDMI- audio receiver compliant.

Note(s)

 Some set-top boxes are not compatible with CEC, this is not a malfunction.

Device Lists

Show the device list menu.

1 Use ▲ ▼ to select Device Lists, then press OK to enter the sub-menu.

Connect

Connect the selected HDMI-CEC device.

1 Use ▲ ▼ to select Connect, then press OK to enter the submenu.

Voice Guidance

Lets you configure Voice guide and its settings.

- 1 Use ▲ ▼ to select Voice Guidance, then press OK.
- Use ▲ ▼ to select the item you want to adjust, then use ◀to adjust it.

Voice Guidance	Off	To set Voice Guidance to Off
Voice Guidance	On	To set Voice Guidance to On
	High	Cataraina and dan alaman haranda
Volume	Middle	Set voice guide volume based on your preference
	Low	on your preference
	Fast	C-+ii-l
Speed	Normal	Set voice guide speed based on your preference
	Slow	on your preference
	High	Catuaisa autida mitab basada m
Pitch	Middle	Set voice guide pitch based on your preference
	Low) s a. p. c. c. c. c.

Video Description

Change from the main audio to the secondary audio stream that contains video description and vice versa.

1 Use ▲ ▼ to select Video Description, then use ◀ ▶ to select the item.

Off	To set Video Description to Off
On	To set Video Description to On

E-sticker

E-sticker (Electronic Sticker) is displayed. E-sticker can be turned off using procedure below.

1 Use ▲ ▼ to select E-sticker.

2 Use **◄** ► to select **Off**.

Off	You can turn off E-sticker .
On	E-sticker is displayed of the TV screen.

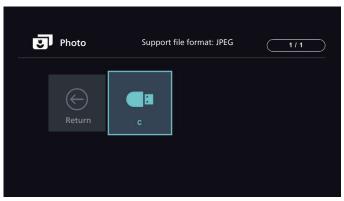
MULTIMEDIA

Your TV is fitted with a USB connection that enables you to view JPEG photos stored on a USB memory stick.

- 1 Connect the USB memory stick to the USB terminal on the back of your TV.
- 2 Press ★ MENU and use ▲ ▼ ◀ ▶ to select MULTIMEDIA, then press OK.



3 Select **Photo**, then press **OK**.



- 4 Use ▲ ▼ ◀ ► to select the picture you want to watch, then press OK.
 - When highlighting the option you select, the file information will appear on the right and picture will be previewed in the center.
 - Use ▲ ▼ ◀ ▶ to select the file folder you want to search in the file selecting menu, then press OK to enter the submenu.

Picture (JPEG)	Upper limit	4000 x 4000 pixels

Note(s)

- Up to 2GB (FAT16) or 8GB (FAT32) capacity can be supported.
- Up to 10,000 files or 1,000 folders with 19 hierarchies can be recognized.
- Up to 255 English characters can be recognized.
- This unit does not support MTP (Media Transfer Protocol).
- This unit supports FAT16 and FAT32 file systems.
- If the file is not supported, an error message appears.
- When the USB memory stick is not recognized, try reconnecting it again.
- 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
- To protect your USB memory stick files from being erased place the writeprotect sliding tab in the protect position (if available).
- Be sure to keep a backup copy of the original files on your device before you play them back on this unit.
- This unit does not recognize USB memory stick that requires a special driver.
- This unit is not allowed to use the USB memory stick which requires an external power supply (500mA or more).
- A file name that exceeds 128 characters or that contains a dot character is not supported on this TV.

5 Useful tips

FAQ

Question	Answer
	Check the antenna or cable connection to the main unit.
	Check the batteries on the remote control.
	• Re-insert or replace the AAA batteries with their polarities (+/–) as indicated on the remote control battery area.
	Check if there is an obstacle between the infrared sensor window and the remote control.
My remote control does not work. What should I do?	• 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.
	 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.
How come the Setup Wizard appears	Connect the RF coaxial cable directly to this unit and run the setup wizard.
every time I turn on this unit?	Make sure to complete the setup wizard before the unit goes into standby mode.
	Auto scan must be completed when you set up the unit for the first time or move it to a location where previously unavailable channels are broadcast.
	Make sure Start Scan has been completed. → p. 23
	The selected channel may not be broadcasting.
Why can I not watch some RF signal TV programs?	 When Start Scan is interrupted and not completed, some channels will not be received. Make sure to complete the auto scan. → p. 23
	• The selected channel cannot be viewed by the Child and ratings lock setting. → p. 25
	• 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 settop box needs to be plugged into the unit.
How come there is no image from the	Check the antenna, cable, or other input connection to the unit.
connected external devices?	• When using the component video connection check that the green (Y), blue (Pb/Cb), and red (Pr/Cr) connectors are connected to their corresponding colored jacks on the unit.
When I enter a channel number, why does it change automatically?	 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)
Why are captions not displayed entirely? Or why are captions delayed behind the dialog?	 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.
How can I set the clock?	Switch to TIME menu, you can set the clock in Clock selection.
My PIN code no longer works, how can I change the child lock setting?	 If the PIN code no longer works, you can enter the "0711" universal password to enter the LOCK menu, then change the lock password. Refer to Child and ratings lock. → p. 25

Continued on next page. Back to Contents

Troubleshooting tips

If the unit does not perform properly when operated as instructed in this User 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 keys do not work.

- Do NOT press more than one key at the same time.
- Ensure that no keys 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

Power is on but no screen image.

- 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 iack.
- 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.

No color

- View other TV channels. The problem might be limited to the broadcasting station.
- Adjust Color in PICTURE settings. p. 21

Picture poor

- Adjust Brightness and Contrast in PICTURE settings. p. 21
- 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.

- Make sure to press () (Power/standby) button on the control panel of this unit to change the live mode. (() (Power/standby) button on the remote controller does not solve
- Unplug the AC power cord, then wait for one minute, and then plug it in again.

Sound

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 (L/R) input jacks.
 - Refer to PC connection → p. 14
- When using component analog video, composite analog video or HDMI-DVI 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 AVL is set to On. → p. 22

Picture & Sound

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 of your device like Blu-ray Disc™/DVD recorder.
- View other TV channels. The problem might be limited to the broadcasting station or weak signal strength, if DTV channel check 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 or 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 HDMI 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.

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

- You may be getting 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. (Analog TV- NTSC signal)

- 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, if DTV channel check 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, if DTV channel check 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 those particular input modes.

The display image does not cover the entire screen.

 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

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 captioning to be incomplete if watching Analog TV signals.
- Broadcasting station may shorten the program to insert advertisements.
- The closed captions decoder cannot read the information of a shortened program.

Black box is displayed on the TV screen.

- The text mode is selected. For closed captions, select CC 1, CC 2, CC 3, or CC 4. ⇒ p. 28
- If connected to a Blu-ray Disc™/DVD device then closed captions are part of its video signal and is only controlled through this device's menu or remote control. Remove the TV closed captions mode

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 User manual for more details on correct operations of this unit.

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.

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-sticker

E-sticker 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 $Disc^{TM}/DVD$ recorder or digital television, over a single cable.

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 Mainaudio 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 #		32PFL3453/F7 A, 32PFL3453/F7 C, 32PFL3453/F7 D
Picture		
Туре		HD (1366 x 768 pixels 60 Hz)
Diagonal screen size/Aspect ratio		31.5"/16:9
Viewing angles		178° (V) by 178° (H)
Built-in digital/analog tuner		ATSC (digital)/NTSC (analog)
Sound		
Mono/Stereo		Mono, Stereo, SAP
Ease of use		
Picture format	SD	Wide/Zoom/Cinema/Normal
	HD	Wide/Zoom/Cinema/Normal
	HDMI-DVI	Full/Point to Point
Photo slide show		JPEG files only
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, Channel + (up)/- (down), and PREV. CH (Previous channel)
Connectivity		
Composite video input (Shared Y green terminal with component video)		1
		2
HDMI input		Supporting HDMI video signals: 480i/p, 720p, 1080i @60Hz, 1080p @24/30/60Hz
		Supporting PC-input video signal up to 1920 x 1080
Analog audio L/R input		1 (L audio/R audio)
PC input		Via HDMI and HDMI-DVI + Analog audio L/R
USB		1
Digital audio output		1 Supporting Dolby Audio (Dolby Digital and Dolby Digital Plus)
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 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: 1 833 978 3323

Chat with us in English:

https://tinyurl.com/y2e29xsq

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