

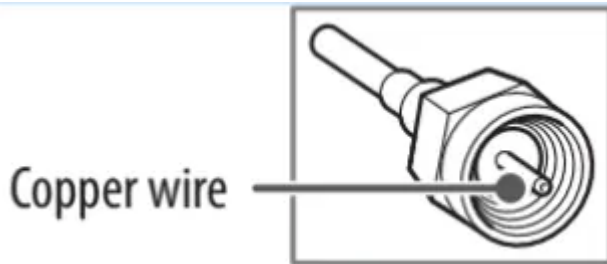
Connections

You can connect various external devices to the TV. For more information on external device connection, refer to the manual provided with each device.

Antenna/Cable

Connect an antenna, cable, or cable box to watch TV while referring to the following. The illustrations may differ from the actual items and an RF cable is optional.

- Make sure, not to bend the copper wire of the RF cable.



- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.
- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital
- This TV cannot receive ULTRA HD (3840x2160 pixels) broadcasts directly because the related standards have not been confirmed.

Other connections

Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable.

HDMI

- When connecting the HDMI cable, the product and external devices should be turned off and unplugged.
- HDMI AudioSupportedFormat:

(Depending upon model)

DTS(44.1kHz /48kHz /88.2kHz /96kHz),


DTS HD (44.1kHz /48kHz /88.2kHz /96kHz /176.4kHz /192 kHz),

True HD (48kHz),

Dolby Digital / Dolby DigitalPlus (32kHz /44.1kHz /48kHz),

PCM (32kHz /44.1kHz /48kHz /96kHz /192kHz)

(Only UHD models)

-  → [Picture] → [AdditionalSettings] → [HDMI ULTRA HD DeepColor]

- On:Support4K @ 60 Hz (4:4:4,4:2:2,4:2:0)
- Off:Support4K @ 60 Hz8bit (4:2:0)

If the device is connected to Input Port and also supports ULTRA HD Deep Color, your picture may be clearer. However, if the device doesn't support it, it may not work properly. In that case, change the TV's [HDMI ULTRA HD DeepColor] setting to off.

- This feature is available only on certain models which support HDMI ULTRA HD Deep Color.

External Devices

Supported external devices are Blu-ray players, HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external devices connection, refer to the manual provided with each device.


- If you record a TV program on a Blu-ray/DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information about recording, refer to the manual provided with the connected device.
- The external device connections shown may differ slightly from illustrations in a manual.
- Connect external devices to the TV regardless of the order of the TV port.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast, or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the[PICTURE] menu until the picture is clear. Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the TV.
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable.
- The TV may be capable of operating without a set-top box from a multichannel video programming distributor (MVPD).

Using Button

You can simply operate the TV functions, using the button.






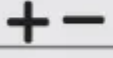

Basic functions

	<p>Power On (Press) Power Off ¹ (Press and Hold) Menu Control (Press ²) Menu Selection (Press and Hold ³)</p>
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1. All running apps will close.
2. You can access and adjust the menu by pressing the button when TV is on.
3. You can use the function when you access the menu control.

Adjusting the menu



When the TV is turned on, press the  button one time. You can adjust the Menu items using the button.

	Turns the power off.
	Changes the input source.
	Adjusts the volume level.
	Scrolls through the saved channels.

Using Remote Control

(Depending upon the model)

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the  and  ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.

Make sure to point the remote control toward the remote control sensor on the TV.



(Some buttons and services may not be provided depending upon models or regions.)



**** To use the button, press and hold for more than 1 second.**

 **(POWER)** Turns the TV on or off.

TV Returns to the last TV channel.

 **(SEARCH)** Shows the search mode.

CC/SUB Activates or deactivates the subtitles.

 **(Q. Settings)** Accesses the Quick Settings.

 **(INPUT)** Changes the input source.

Number button Enters numbers.

9** Accesses the [QUICK HELP].

—(DASH) Inserts a — between numbers such as 2-1 and 2-2.

LIST Accesses the saved channels list.

•••(MORE ACTIONS) Displays more remote control functions.

QUICK ACCESS** Edits QUICK ACCESS.

- QUICK ACCESS is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.

+ VOL — Adjusts the volume level.

FAV Accesses your favorite channel list.

GUIDE Displays the program event according to time scheduler.

 **(MUTE)** Mutes all sounds.


 **** (MUTE)** Accesses the [Accessibility] menu.

^ CH v Scrolls through the saved channels.

^ PAGE v Moves to the previous or next screen.

1 Streaming Service buttons Connects to the Video Streaming Service.

 **(HOME)** Accesses the Home menu.

 **** (HOME)** Shows the previous history.

BACK Returns to the previous screen.

EXIT Clears on-screen displays and returns to last input viewing.

Navigation button (up / down / left / right) Scrolls through menus or options.

 **(OK)** Selects menus or options and confirms your input.

 **INFO** Shows information on the current program.

SAP Enables SAP (Secondary Audio Program) Feature.

REC Starts to record. (Only Time Machine^{Ready} supported model)

 **(Control buttons)** Control buttons for media contents.



 **These access special functions in some menus.**

Using Magic Remote Control

(Depending upon the model)

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

When the message [Magic remote battery is low. Please change the battery.] is displayed, replace the batteries.

























To install batteries, open the battery cover, replace batteries (1.5 V AA) matching the  and  ends to the label inside the compartment, and close the battery cover. Be sure to point the magic remote toward the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.



(Some buttons and services may not be provided depending upon models or regions.)

**** To use the button, press and hold for more than 1 second.**




-  **(POWER)** Turns the TV on or off.
-  **(STB POWER)** You can turn your set-top box on or off by adding the set-top box to the universal remote control for your TV.
- Number buttons** Enters numbers.
-  ****** Accesses the [QUICK HELP].
- (DASH)** Inserts a — between numbers such as 2-1 and 2-2.
-  Accesses the saved channels list.
- (MORE ACTIONS)** Displays more remote control functions.
- QUICK ACCESS **** Edits QUICK ACCESS.
- QUICK ACCESS is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.
- AD/SAP **** SAP (Secondary Audio Program) Feature can also be enabled by pressing the ••• button.
-  **—** Adjusts the volume level.
-  **(MUTE)** Mutes all sounds.
-  **** (MUTE)** Accesses the [Accessibility] menu.
-  Scrolls through the saved channels.
-  **** (Voice recognition)** Network connection is required to use the voice recognition function. Once the voice display bar is activated on the TV screen, press and hold the button and speak your command out loud.
-  **(HOME)** Accesses the Home menu.
-  **** (HOME)** Shows the previous history.
-  **(Q. Settings)** Accesses the Quick Settings.
-  **** (Q. Settings)** Displays the [All Settings] menu.
-  **Wheel (OK)** Press the center of the Wheel button to select a menu. You can change channels by using the wheel button.
-  **(up/down/left/right)** Press the up, down, left or right button to scroll the menu. If you press  buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.
-  **(BACK)** Returns to the previous screen.
-  **** (BACK)** Clears on-screen displays and returns to last input viewing.
-  **GUIDE** Displays the program event according to time scheduler.
-  **Streaming Service buttons** Connects to the Video Streaming Service.
-  **(INPUT)** Changes the input source.
-  **** (INPUT)** Accesses the [HOME DASHBOARD].
-  These access special functions in some menus.
-  **(Control buttons)** Controls media contents.

Registering Magic Remote Control

How to register the Magic Remote Control



To use the Magic Remote, first, pair it with your TV.


1. Put batteries into the Magic Remote and turn the TV on.
- 2.

Point the Magic Remote at your TV and press the  **Wheel (OK)** on the remote control.

* If the TV fails to register the Magic Remote, try again after turning the TV off and back.

How to deregister the Magic Remote Control

Press the  **(BACK)** and  **(HOME)** buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.

* Pressing and holding the  **GUIDE** button will let you cancel and re-register Magic Remote at the same time.

- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community, there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire, or the like.

User Guide

For more information about this TV, read the USER GUIDE embedded in the product.

- To open the USER GUIDE  →  () → [General] → [About ThisTV] → [User Guide]

Troubleshooting

Cannot control the TV with the remote control.

- Check if anything such as tape has been placed over the receiver.
- Check if there is any obstacle between the product and the remote control.

- Replace the batteries with new fresh ones.

No image display and no sound is produced.

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem with the wall outlet by connecting other products.

The TV turns off suddenly.

- Check the power control settings. The power supply may be interrupted.
- Check if the auto-off function is activated in the settings menu.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Abnormal Display

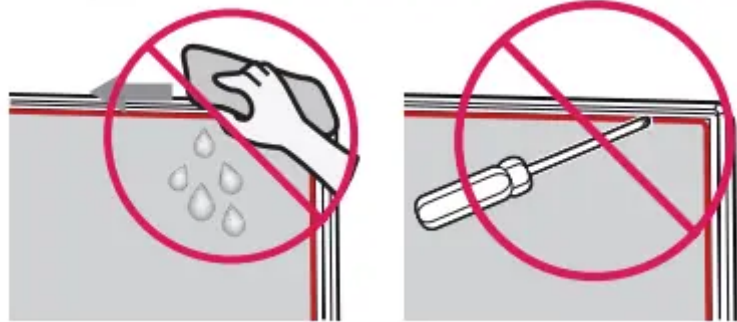
- If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.
- This panel is an advanced product that contains millions of pixels. In very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.
- Displaying a still image for a prolonged period of time may cause an image to stick. Avoid displaying a fixed image on the TV screen for an extended length of time.

Generated Sound

- **Cracking noise** A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
- **Electrical circuit humming/panel buzzing** A low-level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product. This generated sound does not affect the performance and reliability of the product.

CAUTION:

- When cleaning the product, be careful not to allow any liquid or foreign objects to enter the gap between the upper, left, or right side of the panel and the guide panel,



(depending on the model).

- Make sure to wring any excess water or cleaner from the cloth.
- Do not spray water or cleaner directly onto the TV screen.
- Make sure to spray just enough water or cleaner onto a dry cloth to wipe the screen.

Specifications

Product specifications may be changed without prior notice due to upgrades of product functions.

The estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

(Depending upon country)

Broadcasting Specifications	
Television system	ATSC / NTSC-M, 64 & 256 QAM
Program coverage (Band)	VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-135, CADTV 1-135
External antenna impedance	75 Ω

(Except for 43/49/55/60/65UM69*)



Wireless module (LGSBWAC92) Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	18 dBm
5150 to 5725 MHz	18 dBm
5725 to 5850 MHz	18 dBm
Bluetooth	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	8 dBm
<p>As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table. For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body. FCC ID: BEJLGSBWAC92 IC: 2703H-LGSBWAC92</p>	

(Only 43/49/55/60/65UM69*)

Wireless module (LGSWFAC81) Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	20 dBm
5150 to 5725 MHz	15 dBm
5725 to 5850 MHz	14.5 dBm
<p>As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table. For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body. FCC ID: BEJLGSWFAC81 IC: 2703H-LGSWFAC81</p>	

Environment condition	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	Less than 80 %
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Storage Humidity	Less than 85 %

KEY CODES

The feature is not available for all models.

Code 00

- CH +, PR +
 - R/C Button



Code 01

- CH -, PR -
 - R/C Button

Code 02

- Volume +
 - R/C Button

Code 03

- Volume -
 - R/C Button

Code 06

- > (Arrow Key / Right Key)
 - R/C Button

Code 07

- < (Arrow Key / Left Key)
 - R/C Button

Code 08

- Power
 - R/C Button

Code 09

- Mute
 - R/C Button

Code 0B

- Input
 - R/C Button

Code 0E

- SLEEP
 - R/C Button



Code 0F

- **TV, TV/RAD**
 - **R/C Button**

Code 10 - 19

- *** Number Key 0 - 9**
 - **R/C Button**

Code 1A

- **Q.View / Flashback**
 - **R/C Button**

Code 1E

- **FAV (Favorite Channel)**
 - **R/C Button**

Code 20

- **Text (Teletext)**
 - **R/C Button**

Code 21

- **T. Opt (Teletext Option)**
 - **R/C Button**

Code 28

- **Return (BACK)**
 - **R/C Button**

Code 30

- **AV (Audio / Video) Mode**
 - **R/C Button**

Code 39

- **Caption/Subtitle**
 - **R/C Button**

Code 40

- **Λ (Arrow Key / Cursor Up)**
 - **R/C Button**

Code 41

- **V (Arrow Key / Cursor Down)**
 - **R/C Button**

Code 42

- **My Apps**
 - **R/C Button**

Code 43

- **Menu / Settings**
 - **R/C Button**

Code 44

- **OK / Enter**
 - **R/C Button**

Code 45

- **Q.Menu**
 - **R/C Button**

Code 4C

- **List, -**
 - **R/C Button**

Code 4D

- **PICTURE**
 - **R/C Button**

Code 52

- **SOUND**
 - **R/C Button**

Code 53

- **List**
 - **R/C Button**

Code 5B

- **Exit**
 - **R/C Button**

Code 60

- **PIP(AD)**
 - **R/C Button**

Code 61

- **Blue**
 - **R/C Button**

Code 63

- **Yellow**
 - **R/C Button**

Code 71

- **Green**
 - **R/C Button**

Code 72

- **Red**
 - **R/C Button**

Code 79

- **Ratio / Aspect Ratio**
 - **R/C Button**

Code 91

- **AD (Audio Description)**
 - **R/C Button**

Code 9E

- **LIVE MENU**
 - **R/C Button**

Code 7A

- **User Guide**
 - **R/C Button**

Code 7C

- **Smart / Home**
 - **R/C Button**

Code 7E

- **SIMPLINK**
 - **R/C Button**

Code 8E

- **▶▶ (Forward)**
 - **R/C Button**

Code 8F

- **◀◀ (Rewind)**
 - **R/C Button**

Code AA

- **Info**
 - **R/C Button**

Code AB

- **Program Guide**
 - **R/C Button**

Code B0

- **▶ (Play)**
 - **R/C Button**



Code B1

- (Stop / File List)
 - R/C Button

Code B5

- RECENT
 - R/C Button

Code BA

- (Freeze / Slow Play /Pause)
 - R/C Button

Code BB

- Soccer
 - R/C Button

Code BD

- (REC)
 - R/C Button

Code DC

- 3D
 - R/C Button

Code 99

- AutoConfig
 - R/C Button

Code 9F

- App / *
 - R/C Button

Code 9B

- TV / PC
 - R/C Button



*** Keycode 4C (0x4C) is available on ATSC/ISDB models which use major/minor channels.
(For South Korea, Japan, North America, and Latin America except Colombia models)**

Warning

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

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