Panasonic®

Operating Instructions
LED TV

English

TN-55W70CGH
TN-65W70CGH



(image: TN-65W70CGH)

Thank you for purchasing this Panasonic product.

Please read these instructions carefully before operating this product and retain them for future reference.

Please carefully read the “Safety Precautions” of this manual before use.

The images shown in this manual are for illustrative purposes only.

72-W70CGH-E75Z1
English

M0626-0

Notice for Digital terrestrial broadcasting functions

- Function related to Digital broadcasting will work in the areas where the digital terrestrial broadcasting services are received. Consult your local Panasonic Dealer with coverage areas.
- Not all the features are available depending on the country, area, broadcaster and service provider.
- This TV has the capability for Digital broadcasting specifications. But future Digital broadcasting services cannot be guaranteed.

Panasonic does not guarantee operation and performance of peripheral devices made by other manufacturers; and we disclaim any liability or damage arising from operation and/or performance from usage of such other maker's peripheral devices.

Damages

●Excepting cases where responsibility is recognised by local regulations, Panasonic accepts no responsibility for malfunctions caused by misuse or use of the product, and other problems or damages caused by use of this product.

●Panasonic accepts no responsibility for the loss, etc., of data caused by disasters.

●External devices separately prepared by the customer are not covered by the warranty. Care for the data stored in such devices is the responsibility of the customer. Panasonic accepts no responsibility for abuse of this data.

This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use.

Additional information may be obtained from MPEG LA, LLC.

See http://www.mpegla.com.

Transport only in upright position.


This mark indicates the product operates on AC voltage.


This mark indicates the product operates on DC voltage.


This mark indicates a Class II or double insulated electrical appliance wherein the product does not require a safety connection to electrical earth (ground).

To prevent a risk of interception, unauthorised entries and hacking, set up the proper security setting (encryption setting)

- For a secure connection, it is recommended to use the device supporting WPA2 / WPA3 as wireless LAN type. The encryption type depends on the connected device.

- For a secure connection, it is recommended to use the device supporting Bluetooth 4.2 or later. The encryption type depends on the connected device.

WARNING: To reduce the risk of fire or electric shock.



- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

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

Warning

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

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

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

Notes for battery disposal

The batteries used with this product contain chemicals that are harmful to the environment. To preserve our environment, dispose of used batteries according to your local laws or regulations. Do not dispose of batteries with normal household waste. For more information, please contact the local authority or your retailer where you purchased the product.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

This document has been created based on information current as of June 2026.

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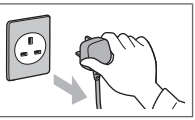
Safety Precautions

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings and cautions below:

Mains plug and lead

Warning

If you detect anything unusual, immediately remove the mains plug.
- Mains plug types vary between countries.



This TV is designed to operate on AC 220 - 240 V, 50/60 Hz.
- Insert the mains plug fully into the socket outlet.
- Ensure that the mains plug and socket outlet is easily accessible.
- Disconnect the mains plug when cleaning the TV.
- Do not touch the mains plug with wet hands.



- Do not damage the mains lead.
  - Do not place a heavy object on the lead.



  - Do not place the lead near a high temperature object.



  - Do not pull on the lead. Hold onto the mains plug body when disconnecting the plug.



  - Do not move the TV with the lead plugged into a socket outlet.
  - Do not twist the lead, bend it excessively or stretch it.
  - Do not use a damaged mains plug or socket outlet.
  - Ensure the TV does not crush the mains lead.
- Do not use any mains lead other than that provided with this TV.

Take care

Warning

- Do not remove covers and never modify the TV yourself as live parts are accessible when they are removed. There are no user serviceable parts inside.



- Do not expose the TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.



- Do not insert foreign objects into the TV through the air vents.
- Do not use an unapproved pedestal / mounting equipment. Be sure to ask your local Panasonic dealer to perform the setup or installation of approved wall-hanging brackets.
- Do not apply strong force or impact to the display panel.
- Do not place the TV on sloped or unstable surfaces, and ensure that the TV does not hang over the edge of the base.



- This TV is designed for table-top use.
- Do not expose the TV to direct sunlight and other sources of heat.



To prevent the spread of fire, keep candles or other open flames away from this product at all times



Dangerous part / Small object

Warning

- This product contains possibly dangerous parts such as plastic bags, that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Pedestal

Warning

- Do not disassemble or modify the pedestal.

Caution

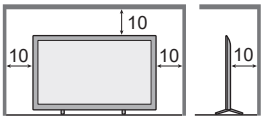
- Do not use any pedestal other than the one provided with this TV.
- Do not use the pedestal if it becomes warped or physically damaged. If this occurs, contact your nearest Panasonic dealer immediately.
- During setup, make sure that all screws are securely tightened.
- Ensure that the TV does not suffer any impact during installation of the pedestal.
- Ensure that children do not climb onto the pedestal.
- Install or remove the TV from the pedestal with at least two people.
- Install or remove the TV by the specified procedure.

Ventilation

Caution

Allow sufficient space around the TV in order to help prevent excessive heat, which could lead to early failure of some electronic components.

Minimum distance (cm)



- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.



- Whether you are using a pedestal or not, always ensure the vents at the bottom of the TV are not blocked and there is sufficient space to enable adequate ventilation.

Built-in wireless LAN

Caution

- Do not use the built-in wireless LAN to connect to any wireless network (SSID*) for which you do not have usage rights. Such networks may be listed as a result of searches. However, using them may be regarded as illegal access.

  *SSID is a name for identifying a particular wireless network for transmission.
- Do not subject the built-in wireless LAN to high temperatures, direct sunlight or moisture.
- Data transmitted and received over radio waves may be intercepted and monitored.
- The built-in wireless LAN uses 2.4 GHz and 5 GHz frequency bands. To avoid malfunctions or slow response caused by radio wave interference when using the built-in wireless LAN, keep the TV away from other devices that use 2.4 GHz and 5 GHz signals such as other wireless LAN devices, microwave ovens, and mobile phones.
- When problems occur due to static electricity, etc., the TV might stop operating to protect itself. In this case, turn the TV off at the Mains power On / Off switch, then turn it back on.

Bluetooth® wireless technology

Caution

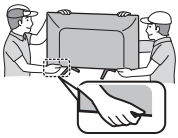
- The TV use the 2.4 GHz radio frequency ISM band (Bluetooth®). To avoid malfunctions or slow response caused by radio wave interference, keep the TV away from the devices such as other wireless LAN devices, other Bluetooth devices, microwaves, mobile phones and the devices that use 2.4 GHz signal.

Moving the TV

Caution

Before moving the TV, disconnect all cables.

- Move the TV with at least two people. Support as shown to avoid injury by the TV tipping or falling.



When not in use for a long time

Caution

This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

- Remove the mains plug from the wall socket when the TV is not in use for a prolonged period of time.

Use conditions

Caution

- This appliance is intended for use in tropical climates.

Battery for the Remote Control

Caution

- Incorrect installation may cause battery leakage, corrosion and explosion.
- Replace only with the same or equivalent type.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable batteries (Ni-Cd, etc.).
- Do not burn or break up batteries.
- Do not expose batteries to excessive heat such as sunshine, fire or the like.
- Make sure you dispose of batteries correctly.

Setting Up the TV

Supplied accessories

Accessories may not be placed all together. Take care not to throw them away unintentionally.

Operating Instructions

Remote Control

• RC732P

➡ **(p. 12)**



Mains Lead

➡ **(p. 8)**



Batteries (AAA) × 2

➡ **(p. 6)**



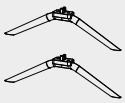
Pedestal

55-inch model

- Assembly screws

A (ST5 x 35) × 4

- Base

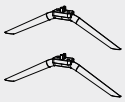


65-inch model

- Assembly screws

A (ST5 x 35) × 4

- Base



Note

Illustrations shown may be different between models and countries.

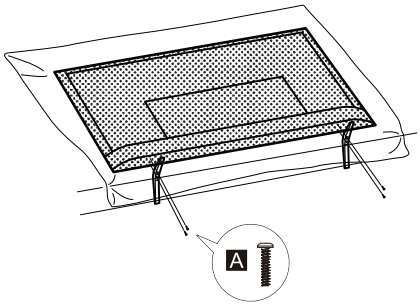
Preparation

Take out the pedestal and the TV from the packing case and put the TV onto a work table with the screen panel down on the clean and soft cloth (blanket, etc.)

- Use a flat and firm table bigger than the TV.
- Do not hold the screen panel part.
- Make sure not to scratch or break the TV.

Attaching the pedestal

Assemble the pedestal



Removing the pedestal from the TV

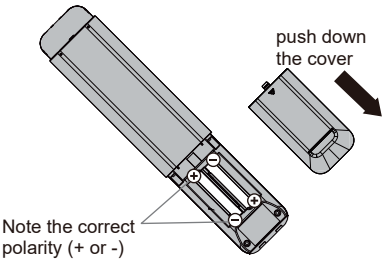
Be sure to remove the pedestal in the following way when using the wall-hanging bracket or repacking the TV.

1 **Lay the TV on a foam mat or thick soft cloth on a table.**

2 **Remove the assembly screws A from the TV.**

3 **Pull out and remove the pedestal from the TV.**

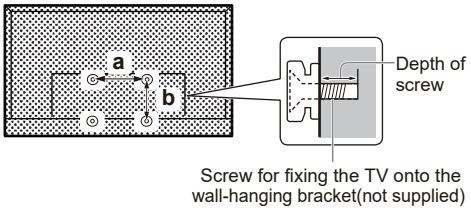
Inserting remote's batteries



Wall mounting the TV (optional)

Please contact your local Panasonic dealer to purchase recommended wall-hanging bracket.

Rear of the TV (View from the side)



■Holes for wall-hanging bracket installation

Model	a	b
55-inch	300 mm	300 mm
65-inch	400 mm	300 mm

■Screw specification

Model	Type	Depth of screw		Number of screws
		Minimum	Maximum	
55-inch	M6	12 mm	14 mm	4
65-inch	M6	12 mm	14 mm	4

Warning

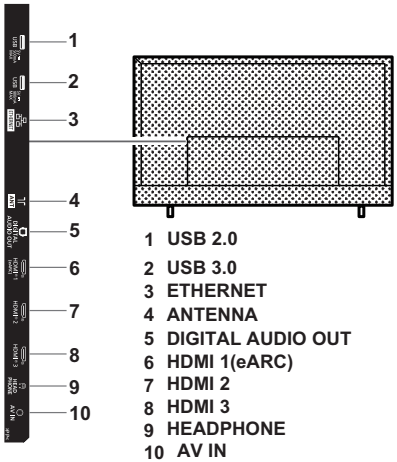
- When optional accessories such as wall brackets etc. are used, always read and follow the manufacturer installation and usage instructions.
- Do not mount the unit directly below ceiling lights (such as spotlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- When installing wall brackets you must ensure the wall bracket is not electrically grounded to metal wall studs. Always ensure that there are no electrical cables, pipes etc. in the wall before you begin the wall bracket installation.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Connecting the TV

- Please ensure the TV is disconnected from the mains socket/ power point before attaching or disconnecting any RF/ AV leads.
- External equipment and cables are for illustrative purposes only and not supplied with this TV.
- Check the type of terminals and cable plugs are correct when connecting.
- When using an HDMI cable, use the fully wired one.
- Keep the TV away from electronic equipment (video equipment, etc.) or equipment with an infrared sensor. Otherwise, distortion of image/ sound may occur or operation of other equipment may be interfered.
- Also read the manual of the equipment being connected.

Terminals

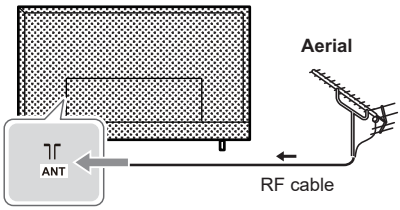
Rear of the TV



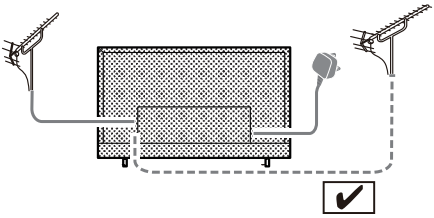
1 USB 2.0
2 USB 3.0
3 ETHERNET
4 ANTENNA
5 DIGITAL AUDIO OUT
6 HDMI 1(eARC)
7 HDMI 2
8 HDMI 3
9 HEADPHONE
10 AV IN

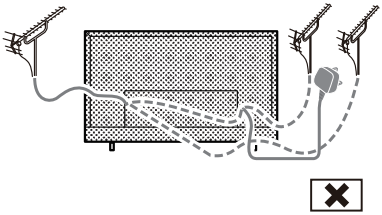
Connections

Aerial and mains lead

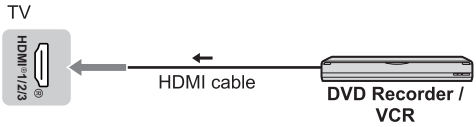


- Keep RF (aerial) cable away from the mains lead to avoid and minimise mains interference pickup.
- Do not place the RF cable under the TV.
- An aerial, correct cable (75 Ω coaxial) and correct terminating plug are required to obtain optimum quality picture and sound.
- If a communal aerial system is used, you may require the correct connection cable and plug between the wall aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct aerial system for your particular area and the accessories required.
- Any matters regarding aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the customer.
- If the aerial is placed in the wrong location, interference might happen.

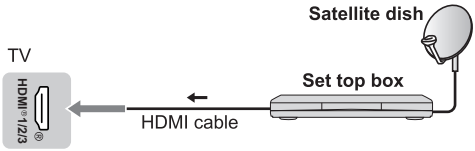




DVD Recorder / VCR

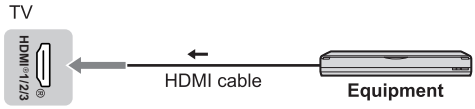


Set top box

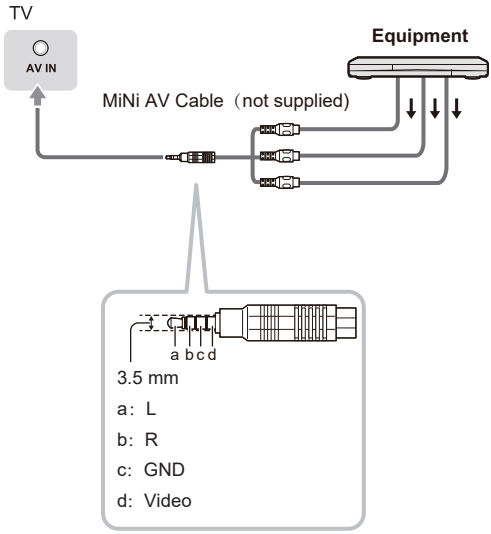


AV / Game equipment

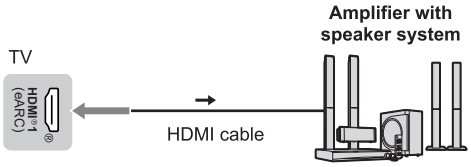
■ **Using HDMI terminal**



■ **Using AV terminals**



Speaker system



- Use HDMI 1 to connect to an extension with eARC(Audio return channel) capability the sound.
- Enjoy the sound of external devices in multichannel sound (e.g. Dolby digital) 5.1CH), connect the device to the loudspeaker. For connections, see the device and the instructions for the loudspeaker.

Initial Setup

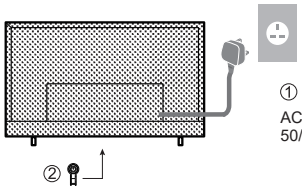
When you first turn on the TV, a series of steps will pop-up to guide you to setup your TV.

- These steps are not necessary if the setup has been completed by local dealer.

① Plug the mains plug into the socket outlet.

② Turn on the TV.

It may take a few seconds before the screen is displayed.



①
AC 220 - 240 V, 50/60 Hz

Google - Initial Setup

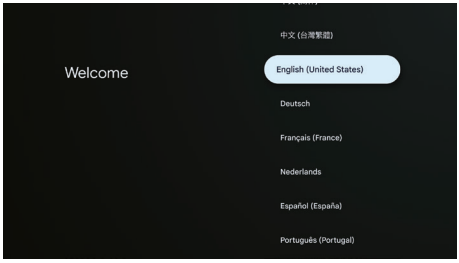
When you turn on the TV for the first time, a series of prompts will guide you to setup the initial settings:

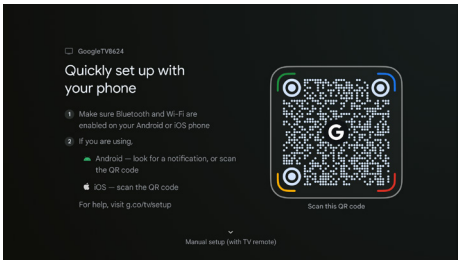
Note: Illustrations within this publication are provided for reference only, and actual Google push will prevail.

Step 1: This function is used for the remote control pair code. After successful pairing, you can use the Bluetooth remote control to operate the TV.



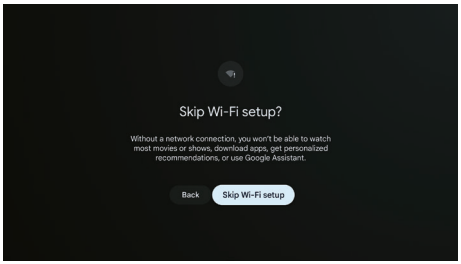
Step 2: Select the menu language as you need.
Note: *English(United States) is recommended.*



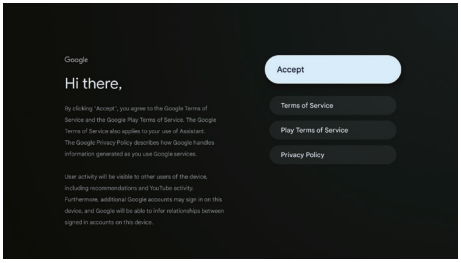


Step 3: Choose "Manual setup (with TV remote)" .
If you want to set up basic mode first, press "Skip Wi-Fi set up". If you want to use the complete TV features, skip to the "Set up Google TV" (p. 9).
Note: *If you want to setting Wi-Fi later, can setting on Homepage.*

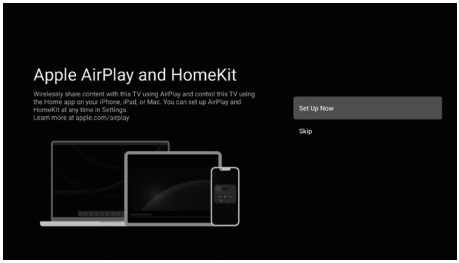




Step 4: Read to accept the Google terms of service and privacy policy.



Step 5: Set up AirPlay and HomeKit or Skip.



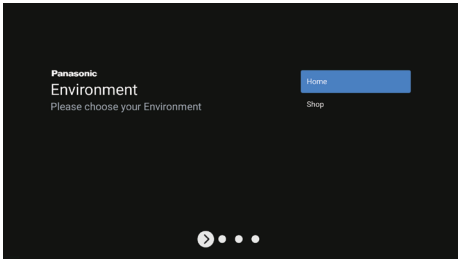
Step 6: Environment

Press ▲/▼ to select your environment, then press OK to enter next step.

Home Mode: The home mode is optimized for efficient usage for home use.

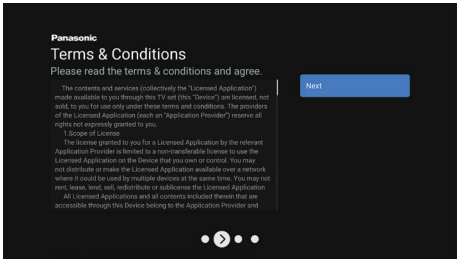
Shop Mode: The shop mode is optimized for store Demo with fixed settings.

Note: *Home use the option "home", Shopping mall uses the option "Shop".*



Step 7: Terms & Conditions

Use ▲/▼ to read Terms & Conditions, then press OK to confirm and move to next step.

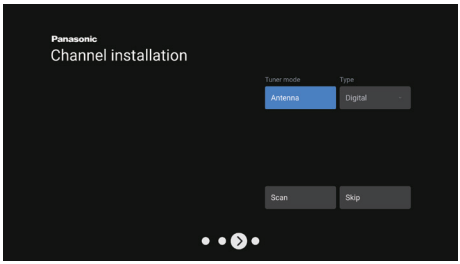


Step 8: Channel installation

Use ▲/▼ to select Tuner mode: Antenna;
Type: Digital, Analogue and All, then press OK to confirm and move to next step.

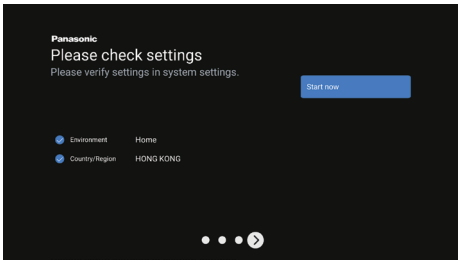
Select "Scan" in order to scan. Before the scan starts, you will be asked to check if your antenna cable is plugged properly into the antenna socket on your TV. You can also skip this step by selecting "Skip" on the screen.

Note: *Please note that the process of scanning will take some time.*



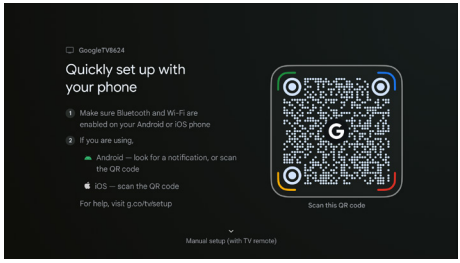
Step 9: Please check settings

When all setup is done, the [Please check settings] interface displays on the screen, and press OK to finish the initial setup. You can also go back to former step and make any changes by using ← button.



Set up Google TV

Step 4: Set up with the Google Home app
You can try setting up the TV with your phone.



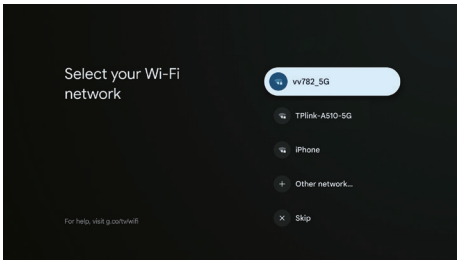
First, turn on your phone's Bluetooth (Note: Please make sure your phone has the Google Home App installed).
Go to Google Home APP on your phone, find your TV, and tap Connect. Once connected, scan the QR code on your TV with your mobile phone.
When your phone is connected to your TV, you can set up your TV on your phone (connect to Wi-Fi and sign in to Google account), your TV will automatically get the Wi-Fi and Google account information on your phone.

You can also use the remote to set up your TV and sign in to your Google account.

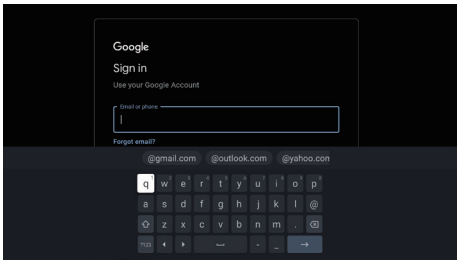
Press ▼ to go to the next step.

Step 5: Select Connect your TV to a Wi-Fi network. If you did connect your TV to internet via an Ethernet cable before the initial setup begins this step will be skipped. If you didn't, your TV will search and list available wireless networks at this point. Select your network and press OK to connect to it.

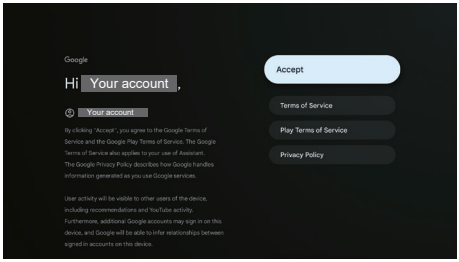
Note:*To use Google TV, you must connect to Wi-Fi.*

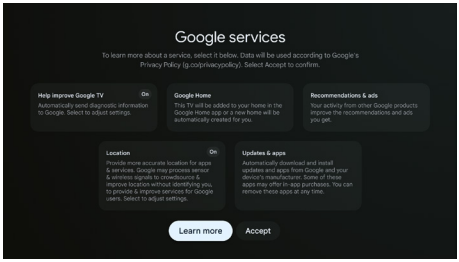


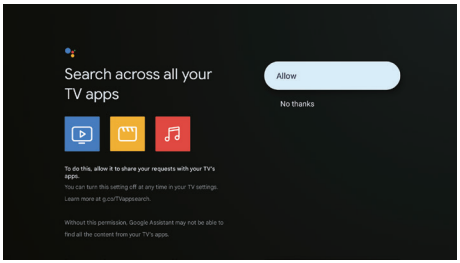
Step 6: Enter your Google account and password. You need to sign in to an Google account in order to use Google services. If you don't already have an Google account you can set up an account by choosing "Create account" option.

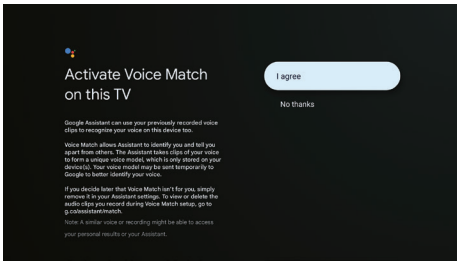


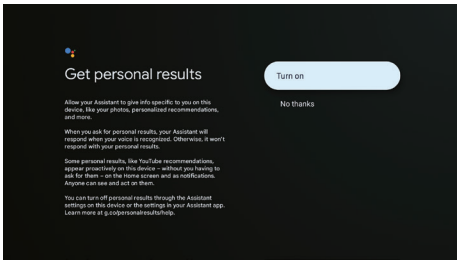
Step 7: Read to accept the Google terms of service and privacy policy.



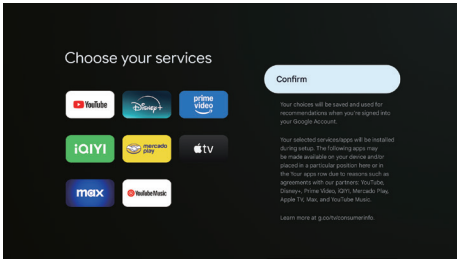






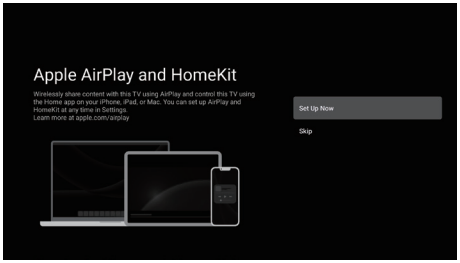


Step 8: Choose your services and confirm.



Step 9: Select whether or not to set Apple AirPlay and HomeKit.

Note: *If you want to set this option later, can setting on Homepage.*



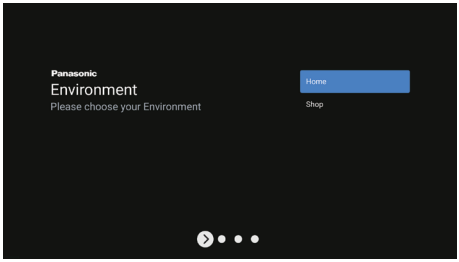
Step 10: Environment

Press ▲/▼ to select your environment, then press OK to enter next step.

Home Mode: The home mode is optimized for efficient usage for home use.

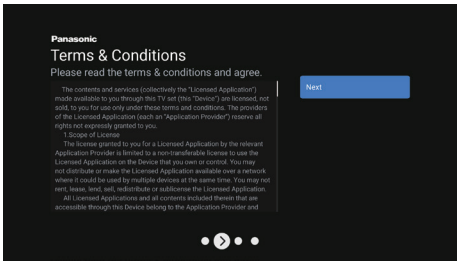
Shop Mode: The shop mode is optimized for store Demo with fixed settings.

Note: *Home use the option "home", Shopping mall uses the option "Shop".*



Step 11: Terms & Conditions

Use ▲/▼ to read Terms & Conditions, then press OK to confirm and move to next step.

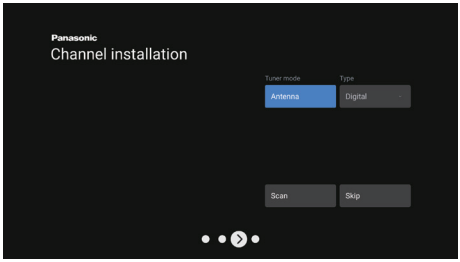


Step 12: Channel installation

Use ▲/▼ to select Tuner mode: Antenna;
Type: Digital, Analogue and All, then press OK to confirm and move to next step.

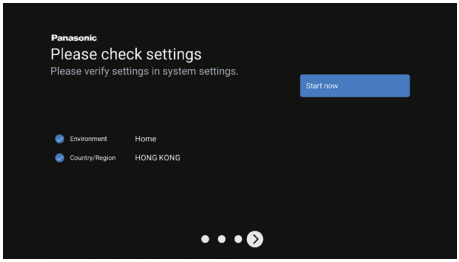
Select "Scan" in order to scan. Before the scan starts, you will be asked to check if your antenna cable is plugged properly into the antenna socket on your TV. You can also skip this step by selecting "Skip" on the screen.

Note: *Please note that the process of scanning will take some time.*



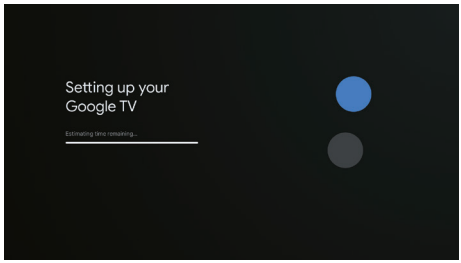
Step 13: Please check settings

When all setup is done, the [Please check settings] interface displays on the screen, and press OK to finish the initial setup. You can also go back to former step and make any changes by using ← button.

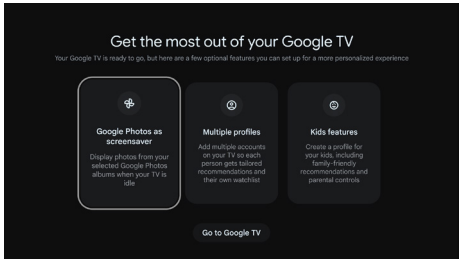


Step 14: Installing your apps

Note: *After the internet connection is established, the TV will check for the software updates and download. Please notice that this will take some time.*



Step 15: Your Google TV experience is ready.



Setup is now complete and your TV is ready for viewing.

Note

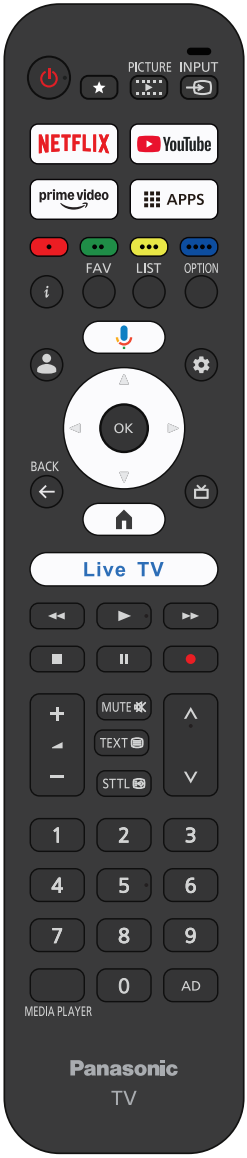
- If tuning has failed, check the connection of the RF cable, then follow the on-screen instructions.

Operating the TV

Using the remote control

Remote Control Functions

Most of your television's functions are available via the menus that appear on the screen. The remote control supplied with your set can be used to navigate through the menus and to configure all the general settings.



POWER (On/Off button) Turns the TV on or off

★ Create a shortcut
(You can set to open specific applications or perform specific actions.)
(After setting if you want to switch the shortcut key action, you can long press the key to reset it.)

PICTURE To enter the picture mode

INPUT To enter source selection interface

NETFLIX Goes to the NETFLIX homepage

YouTube Goes to the YouTube homepage

prime video Goes to the Prime Video homepage

APPS To select the apps

Colour buttons Performs multiple operations which correspond to the operation guide displayed on the menu screen

i Display to the information
(In DTV mode, you can view the current program name, signal format, and program operator information.)

FAV To enter the Favorite shows

LIST To enter the channel list

OPTION Displays the options menu of selected functions
(In DTV mode, you can view the EPG, add the new channel or select the Subtitle language, Audio Language, etc.)

Microphone
(Talk to Google Assistant or search for various content with your voice. Google Assistant is not available in certain languages/countries/regions.Available only when the network connection is normal)

Sign in to Google account or switch Google accounts.

Enter to Using TV System menu.

OK Confirms your selection.

◄/►
▲/▼ (up, down, left and right direction buttons) Highlights different items in the menu system and adjusts the menu controls.

BACK ← Exit the menu and return to the previous menu

Press to display the electronic program guide

Goes to the smart TV homepage

Live TV Switch to the TV source

◄◄ To fast backward

► To play

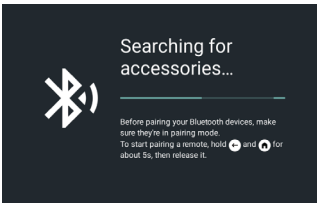
►► To fast forward

■ Close the videos playing in the APP

❚❚ To pause

●	Start recording (This button is not used for this model)
+ -	Increases or decreases the volume
MUTE	To mute and unmute the sound
TEXT	To show the text (This button is not used for this model)
STTL	To show the subtitles
∧ ∨	Channel up / down
0~9	Select the digital key number
MEDIA PLAYER	To enter the media player
AD	Audio description

How to Pair Remote Control with the TV





This is a Bluetooth remote control, and before using it, please pair it with the TV firstly. When TV is turned on for the first time, a pairing process for your remote will be performed during the initial setup. Your remote control should automatically pair with your TV at this point.

You can add an additional Voice Remote with Google to your TV, or you may also need to replace one if your old one broke. Other Bluetooth devices like speakers, games controllers can also be connected via Bluetooth.

The following steps are for your reference:

Step 1: Press ⌂ button to enter the home page.

Step 2: Press ▲/▼/◄/► to choose ⚙ to enter.

You can also directly select the ⚙ button on the remote control.

Step 3: Press ▲/▼/◄/► to choose Remotes & Accessories, and press OK to enter.

Step 4: Press ▲/▼/◄/► to choose Pair accessory and press OK to enter.

NOTE: *Under this menu, you can choose turn Bluetooth on or off, Add a new Remote* & Accessories *or set up a remote control or accessory that's already connected to your TV.*

Follow the on screen instructions to pair it.(Press hold ← and ⌂ for 5 seconds on the "new" remote. Your remote control should be paired with your TV at this point, it will appear in the list. And then press OK on your remote to confirm adding this new remote).

NOTE: *If you experience difficulties in pairing your remote with your TV you can turn off other wireless devices and try again.*

If you want to unpair the Bluetooth remote, follow these steps:

Step 1: Press ⌂ button to enter the home page.

Step 2: Press ▲/▼/◄/► to choose ⚙ to enter.

You can also directly select the ⚙ button on the remote control

Step 3: Press ▲/▼/◄/► to choose the remotes or accessories you need to remove and press OK to confirm.

Step 4: Press ▲/▼ to choose Forget and choose Yes.

When the remote does not respond

Step 1: Press and hold the button as shown below for 3 seconds to reset remote control.

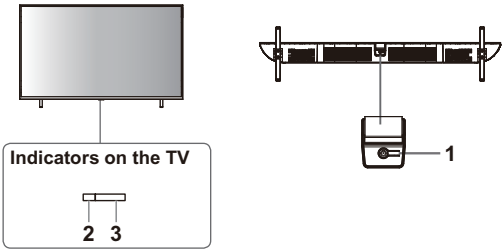


Step 2: Point the remote towards the remote receiver and follow the steps below to remove the pairing.

[Home] → [Settings] → [Remote & Accessories] → [RCU732] → [Forget]

Using the TV controls

55 / 65-inch model



1 Power On /Power Off

- The TV is off, short press the button to turn on the power.
- The TV is on, short press the button, the virtual button will display as shown below.



- When the virtual button appears, press the button briefly to switch the button key functions.
- When the virtual button is appears, press the button long enough (for more than 1 second), can perform the following functions.

Power off
To turn Off the apparatus completely, you must pull the mains plug out of the mains socket.

Next channel

Previous channel

Volume increase

Volume reduction

Input source
Long press display input source option, release the button when the cursor jumps to the source to be switched.

2 Power LED

- Red: Standby
- Green: On

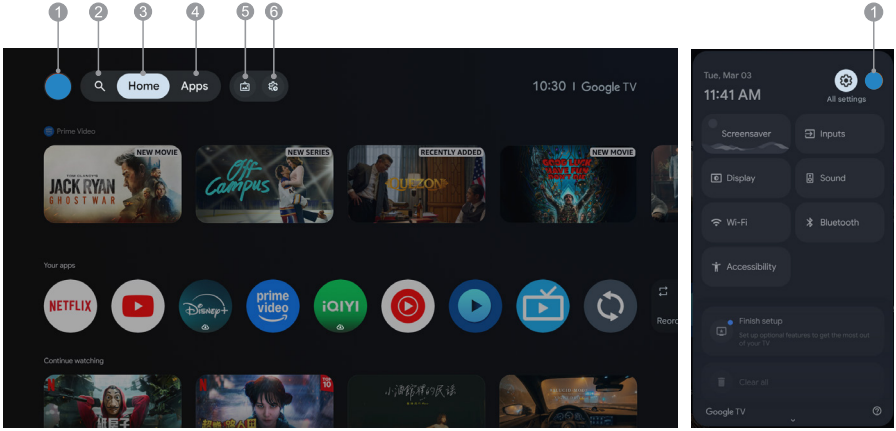
3 Remote control signal receiver

General Operation

Using Homepage

The home page is the centre of your TV. Press the Home button on your remote to display the main screen. From the main screen you can start any application, switch to a TV channel, watch a movie or switch to a connected device, or manage the settings.
You can scroll through the options and content of your Home screen using the directional buttons.When the cursor stays on the icon, it displays the information of the highlighted content. Available options and content may differ depending on the network connection status of your TV and whether you signed in to your Google account.

You can select all the features from homepage.（First of all, make sure you are logged in to your Google account.）
Press ⌂ to display homepage.
Press ▲/▼/◄/► to select icons from the screen list.
Press **OK** to enter each option.
Press ← or ⌂ to exit the APP.



1. 🔵: You can add or switch user accounts.
2. 🔍: Search movies shows, apps and more.
3. **Home:** Select icons from the screen list.
4. **Apps:** Show all applications, application search bar, recommended applications, etc.
5. 🖼: Open Screensaver and show different images.
6. ⚙: You can select Settings, Screensaver, Inputs, Picture, Wi-Fi and more.

Note:
1）The features and content of "Home Page" may vary by different countries or models.
2) Before using network functions in home page like online applications and so on, please connect the TV to the network firstly.
3) Icon copyrights are owned by the application providers.

After connecting to the internet, Google will push it online and update it from time to time. This image is only for example, and actual Google push will prevail.And for some models, certain options are not available.

Using the Menu Functions

Using Quick Access Menu

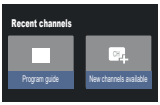
Note: Some of the functions might be unavailable in certain sources. And for some models, certain options are not available.

This section explores the menus and settings of your TV. Each menu is outlined and detailed to help you get the most from your TV. To access the menu system:

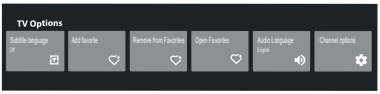
1. In TV mode, press **OK** on the remote control to display the quick access list.
2. Press ▲/▼ to select the desired item, then press **OK** to open the corresponding submenu.
3. In submenu, use ◄/► and **OK** buttons to make the adjustments, or use ▲/▼ to select an item, use **OK** to enter and operate according to the on-screen display or guide.
4. Press ← to return to the previous menu.

Menu

Note: Depending on the signal source, the menu that appears may be different, please refer to the actual situation.



Program guide: Go to the EPG interface, only under DTV sources.
New channels available: New Channels available, including Digital TV and Analog TV.



Subtitle language: Select to Off, Basic and Hearing Impaired.
Add favorite: Add as a favorite channel.
Remove from Favorites: Remove the channel from your favorite list.
Open Favorites: Open your favorites list.
Audio Language: Select the audio language.
Channel options: Set channel function options, select to Hide Channels, System lock, Audio Language, Signal Condition, Open source licenses and Version.

Note:When Digital TV is selected for Signal Type, Channel Options could select to Hide Channels, System lock, Audio Language, Signal Condition, Open source licenses and Version.

System lock:
You can lock a specific channel using a code.
A message will appear when you select a locked channel.To watch this channel, press ► and enter your PIN.When selecting ►, enter the 4-digit password.
*The first time you enter LiveTV after completing the Initial Setup, you will be asked to set up a PIN.
*If you forget your password, please use the super password "0812" to unlock.

The input

Press ⏎ then press ▲/▼ to select your desired source, and then press OK to confirm.

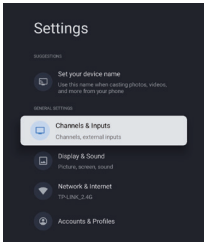


Note:The available source might differ depending on the model.

Using System Settings

The Settings menu allows you to configure the TV with your preferences.

Note: Some of the functions might be unavailable in certain sources. And for some models, certain options are not available.



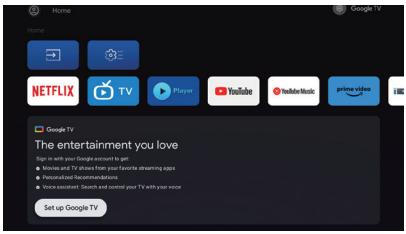
Each menu is outlined and detailed to help you get the most from your TV. To access the menu system:

1. Press ▲/▼ to select the desired item, then press **OK** to open the corresponding submenu.
2. In submenu, use ▲/▼ and **OK** buttons to make the adjustments, or use ▲/▼ to select an item, use **OK** to enter and operate according to the on-screen display or guide.
3. Press ← to return the previous menu.

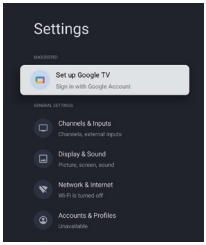
Set up Google TV

If you selected "Skip Wi-Fi set up" during setup, you can sign in to your Google account here. There are two ways to enter.

1.In the HOME interface, press the ▲/▼ to select “Set up Google TV” and proceed to the next step.



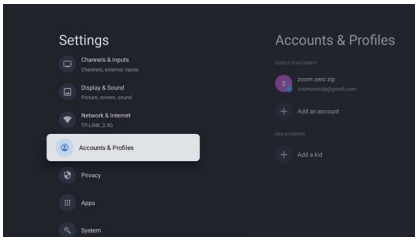
2.Select “Set up Google TV” in the settings, follow the prompts to log in to your Google account.



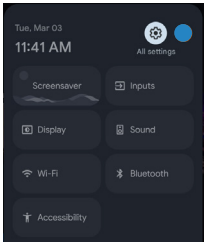
Note: The images shown for illustration and reference only.

Add a Google account

If you are already logged in to your Google account, select “Accounts & Profiles ” in the settings.



You can also add an account by pressing the ► to select the circular icon on the HOME interface.



Channels & Inputs

Note: This function is only available in TV mode. Depending on the signal source, the menu that appears may be different, please refer to the actual situation.

1. Press the INPUT of the remote control to select the Analog TV and enter .

2. Press the ⚙ of the remote control to enter the settings menu and select “Channels & Inputs” to enter.

Select Analog TV and enter.

- Country and Region: Confirm your country or region.
- Analog Auto Scan: Press OK to start the automatic search process. The search may take a few minutes. During the process, you can press Back and choose YES to exit .
- Analog Manual Scan: Press OK to enter the interface.

Press ▲/▼ to set program, Audio system or color system item, then Press ▲/▼ select frequency and press OK, then select Scan Up or Scan Down， press OK to search channel.

- Channel Organizer: Press OK, use ▲/▼ to select the desired channel, then press OK to open the corresponding submenu, use ▲/▼and OK to select Hide, Edit, Delete, Move and Clear all.
- Teletext: Press OK and then use ▲/▼ to select preferred teletext.(This function is not used for this model)

Select Digital TV and enter.

- Country and Region: Confirm your country or region.
- Auto Scan: Press OK to start the automatic search process. The search may take a few minutes. During the process, you can press Back and choose YES to exit .
- Manual Scan: Select the channel number and start to scan.
- Digital Channel Setup:

Subtitle Setup:

(1)Subtitle Setting: To select off,Basic or Hearing impaired.

(2)Primary Preferred Language: Press OK and then use ▲/▼ to select Primary Preferred Language.

(3)Secondary Preferred Language: Press OK and then use ▲/▼ to select Second Preferred Language.

Audio Setup:

(1)Audio Description: Include Off and On.

(2)Audio Description Mixing Level: Select Audio Description On and press OK and then use ◄/► to set Audio Description Mixing Level.

(3)Audio Type: You can set the audio type.

(4)Primary Preferred Language: Press OK and then use ▲/▼ to select Primary Preferred Language.

(5)Secondary Preferred Language: Press OK and then use ▲/▼ to select Sencond Preferred Language.

LCN: Select On or Off.

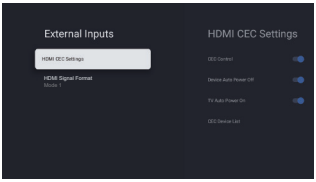
- Channel Organizer: Press OK, use▲/▼to select the desired channel, then press OK to open the corresponding submenu, use ▲/▼and OK to select Hide, Edit, Delete, Move and Clear all.

Note: When need to set up channel organizer, need to set the LCN to Off.

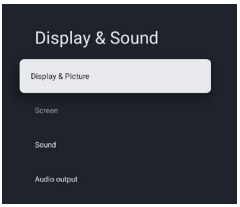
External Inputs

HDMI CEC Settings:
- CEC Control: To select on or off.
- Device Auto Power Off: To select on or off.
- TV Auto Power On: To select on or off.
- CEC Device List: Turn devices on and select [Enable] to enable control of HDMI devices.

HDMI Signal Format:
Note: *only available in HDMI source.*
- Display current HDMI Siganl, press OK to select HDMI mode 1/2/3.



Display & Sound



Display & Picture: Enter to adjust Picture Mode, ECO, Backlight or Advanced Settings.
Picture Mode: To select Standard, Dynamic, Filmmaker, Sport, Game, Eye Safe and Custom.
ECO: To select Off, Low and High.
Backlight: To select the level of 0-100.
Note: *Not available in Standard mode.*

Advanced Setting:
- Color Temperature: To select the Standard, Warm and Cool.
- Dynamic Contrast: To select on or off.
- HDMI PC/ AV Mode: To select Video, PC and Auto.
- Overscan: To select on or off.
- Noise Reduction: To select Off, Low, Middle, High and Auto.
- Picture Reset: To reset the picture.
- ALLM: To select on or off.
- Gaming120Hz: To select on or off.
- Motion Estimate and Motion Compensation(MEMC): To select Off, Low, Middle and High.
- Gamma: To select 2.2 or 2.4.
- Native or Auto: To select local or automatic.
- AI: To select to turn AI PQ on or off.

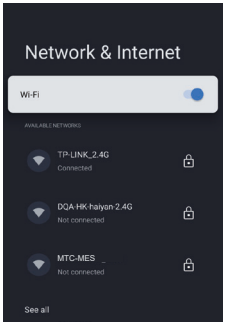
Screen: To select this option to adjust the picture size.
Aspect Ratio: To select this option to adjust the Aspect ratio 16:9,4:3,Auto, Original.

Sound: Select this option to set the sound adjustments.
Sound Mode: To select the mode of Standard, Movie, Music, News and User.
Dobly Audio Processing: To select on or off.
Surround Mode: To select Pure Sound or Surround.
Advanced Settings:
- Dialogue Enhancer: To select on or off.
- Dialogue Enhancer Level: To select the level of 1-7.
- Balance: To select the level of -15 -15.
- Sound Reset: To reset the sound.

Audio output: Select this option to set the Audio output.
Output Device: To select TV Speaker, SPDIF/Optical, Speaker and SPDIF and HDMI-ARC.
Audio Output Type: To select PCM, ByPass and Auto.
Digital Audio Delay(ms): To select the level of 0 - 1000.
Digital Audio Volume: To select the level of 0-100.
eARC: To select Off and Auto.
Speaker and Headphone： To select on or off.

Network & Internet

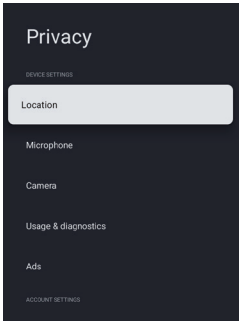
Select Wi-Fi or Ethernet to connect the television to the network environment and adjust network Settings.



1. Press ▲/▼ to select the desired item.
2. Press **OK** to open the corresponding sub-menu.
3. After finishing your adjustment, Press OK to save and BACK to previous menu.

Privacy

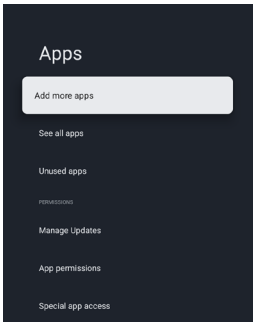
View or adjust privacy Settings for devices, accounts, and applications.



1. Press ▲/▼ to select the desired item.
2. Press **OK** to open the corresponding sub-menu.
3. After finishing your adjustment, Press OK to save and BACK to previous menu.

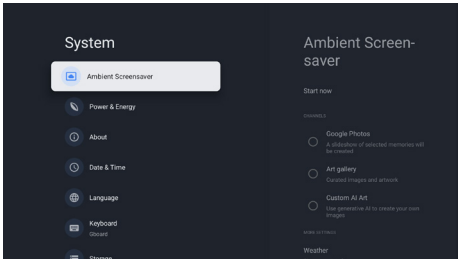
Apps

View or adjust application-specific Settings.The information and controls available vary among different types of apps.



1. Press ▲/▼ to select the desired item.
2. Press **OK** to open the corresponding sub-menu.
3. After finishing your adjustment, press OK to save and BACK to previous menu.

System



In this menu, you can read the information and settings of TV.

Ambient Screensaver: Screensavers settings, you can select the picture, the picture switching time, whether to show the weather and date, etc.

Power & Energy: To select Energy Modes, Shut-Off Timer, Power on behavior and Screen saver.

- Energy Modes: To select Low, Optimized or Increased.
- Shut-Off Timer:

When inactive: To select a time as you needed.

Idle TV Standby: To select a time as you needed.

No Signal Power Off: To select a time as you needed.

- Power on behavior: To select Google TV home screen or Last used input.
- Screen saver: To select Start now or Turn screen on (On or Off)

About: To select System update, Device name, Reset, Status, etc.

- System update: Update TV system.
- Device name: View and can change the TV name.
- Reset: Google reset. Restore the device to default settings and clear all data, accounts, files, and downloaded applications.
- Status: Display IP address, Device MAC address, Bluetooth address, Serial number and Up time, etc.

Date & Time: To select Automatic date &time, Set date, Set time, Set time zone and Use 24-hour format.

Note:Set date and set time are available when Automatic date & time is set to OFF.

Language: To select the menu language as you need.

Keyboard: To select Current keyboard, Gboard Settings and Manage keyboards.

Storage: Display internal shared storage, if there is an external device, you can also display external settings Storage.

Cast: To select Always, While casting or Never.(Available when logged in to your Google account.)

System sounds: To select on or off.

Device:

- Environment: To select Home or Shop.
- Internal Version: Displays the current Internal version.
- Internal ID: Displays the current user internal ID.

Restart: Restart your TV.

Accessibility

Talkback, Text to Speech, Text scaling, Bold text, Color correction, Accessibility shortcut, Time to take action (accessibility timeout), Key repeat delay, Switch Access, Audio description, Captions, High contrast text, Scast, Media player and TV service Manager.

Remotes & Accessories

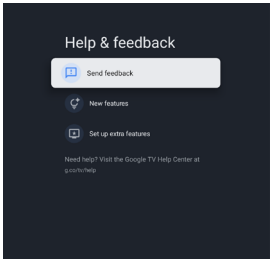
Display current Bluetooth and Pair remote or accessory.

Set up remote buttons:

- Star button: You can create shortcuts to set up the opening of specific applications or specific actions.

Help & Feedback

Provide feedback to Google or use the web search screen to access the Google Description Center.

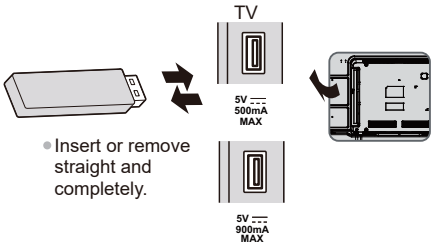


Using Media Player

Media Player allows you to enjoy photo, music or video recorded on a USB Flash Memory.

- The picture may not appear correctly on this TV depending on the digital cameras used.
- Display may take some time when there are many files and folders in the USB Flash Memory.
- Partly degraded files might be displayed at a reduced resolution.
- The folder and file names may be different depending on the digital camera used.

Inserting / Removing the USB Flash Memory



- Insert or remove straight and completely.

Starting Media Player

1 Insert the USB Flash Memory.

2 In the HOME interface, press ▲/▼/◄/► to select the Media Player application. Or press the MEDIA PLAYER button on the remote control directly.

3 Select the mode.



[DOCUMENT]: Displays the thumbnail of all documents in the USB Flash Memory.

[VIDEO]: Displays the thumbnail of video titles in the USB Flash Memory.

[PICTURE]: Displays the thumbnail of all photos in the USB Flash Memory.

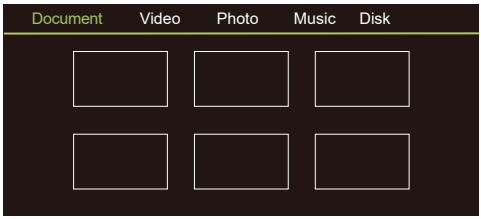
[MUSIC]: Displays the thumbnail of music folders in the USB Flash Memory.

[DISK]: Displays the thumbnail of all documents in the USB Flash Memory.

[Contents Display]

Follow the operation guide to perform available operations.

When the cursor stays on the icon, it displays the information of the highlighted content.



Document:

1. Select **Document** icon.
2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
3. Use OK key to see more option: ZOOM+, ZOOM-.
4. Press BACK key of remote to stop playing.

Video:

1. Select **Video** icon, then press OK button to view movie file.
2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
3. While playing a Video, press OK Menu of remote to display the play console. For the Play console, Press OK key of remote to Play and Pause the video file. Left key of remote to Fast backward. Right key of remote to Fast forward.
4. Use OPTION key to see more option: Photo scale, Looping mode, Subtitle, Subtitle code, Audio track, information and video list.
5. Press BACK key of remote to stop playing and Press BACK to exit.

Picture:

1. Select **Picture** icon, then press OK button to view the picture.
2. Press Up, Down, Left or Right direction button to select your desired picture file and press OK to show.
3. While showing picture, press OK to display the play console. For Previous and Next use remote left and Right key.
4. Use OK key to see more option: Left rotation, Right rotation, ZOOM+, ZOOM-, Manual play/Auto play, Information, Play mode, Play interval, BGM: on or off.

Music:

1. Select **Music** icon, then press OK button to listen to Music.
2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
3. The Play console includes Previous, Play/Pause,Fast backward/Fast forward,Next and Repeat.
Press OPTION key to see PlayList .
4. Press BACK key of remote to stop playing.

Disk:

1. Select **Disk** icon, then press OK button to choose folder.
2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
3. Press BACK key of remote to stop playing.

Additional Information

Auto power standby function

The TV will automatically go into Standby mode in the following conditions:

- [No signal power off] is active in [System] menu (p.19).
- [When inactive] is active in the [System] menu (p. 19).
- [Idle TV Standby] is active in the [System] menu (p. 19).

Input signal that can be displayed

Signal name	HDMI
525 (480) / 60i, 60p	○
625 (576) / 50i, 50p	○
750 (720) / 60p, 50p	○
1,125 (1,080) / 60i, 50i	○
1,125 (1,080) / 60p, 50p, 24p	○
2,250 (2,160) / 60p, 50p, 24p	○

○ Mark : Applicable input signal.

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

HDMI connection

This TV incorporates HDMI™ technology. HDMI (high-definition multimedia interface) is the world's first complete digital consumer AV interface complying with a non-compression standard.
HDMI allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.

Applicable HDMI features

- Input audio signal:
  2ch Linear PCM (sampling frequencies 48 kHz, 44.1 kHz, 32 kHz)
- Output audio signal:
  Support one port of the newest HDMI 2.1 receiver eARC feature.
- Input video signal:
  ➡ **"Input signal that can be displayed" (p. 21**)
  Match the output setting of the digital equipment.

USB Flash Memory

For playing back in Media Player
Format: FAT32
Compliance:
USB2.0 port: Supports only USB1.1 or USB2.0 standard.
USB3.0 port: Supports only USB1.1 or USB2.0 or USB3.0 standard.
Maximum USB capacity supported is 1TB.

Note

- Data modified with a PC may not be displayed.
- Do not remove the device while the TV is accessing data. Otherwise this can damage the device or TV.
- Do not touch the pins on the device.
- Insert the device in the correct direction. Otherwise this can damage device or TV.
- Electrical interference, static electricity, or erroneous operation may damage the data or device. Panasonic is not liable for any deterioration or damage of data or device during operations with the TV.
- It is recommended to connect the USB Flash Memory directly to the TV's USB port.
- Some USB devices or USB HUB may not be used with this TV.
- You cannot connect any devices by using the USB port.
- Additional information for USB devices may be on the following website. (English only)
  http://panasonic.jp/support/global/cs/tv/
- If you need to expand the memory, you can format the USB expansion memory.
  Home > Settings > System > Storage >VendorCo USB drive > Erase and format as device storage.
  If want to restore USB functionality, following below format again.
  Home > Settings > System > Storage >VendorCo USB drive > Erase & format as removable storage

  ** This operation has the risk of damaging the USB, please proceed with caution.*

Supported file format in Media Player

Decument

PDF

Image Decoder

JPEG; PNG; BMP; GIF;

Video Decoder

MPEG1/2/4; H.264; H.265; AVI; WMV; VP8 ; M-JPEG

Audio Decoder

PCM; LPCM; MPEG1/2/4; AAC; WMA; AC3; EAC3; FLAC

Subtitles

- The video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions.
- If there are more than one subtitles text file inside the same folder, they are displayed in the following order of priority: ".srt", ".sub".

Note

- Even if these conditions are fulfilled, some files may not play depending on how they are encoded.
- Do not use two-byte characters or other special codes for data.
- Connected devices may become unusable with this TV if the file or folder names are changed.

Read Before Playing Photo, Video, or Music Files

Read this information before playing media content.

Limitations on use of photo, video, and music files

The TV supports MSC(Mass Storage Class) USB devices only. MSC is a class designation for mass storage devices. Types of MSC devices include external hard drives, flash card readers, and digital cameras. (USB hubs are not supported.) These kinds of devices must be connected directly to the USB port. The TV may not be able to recognize a USB device or read the files on the device if it is connected with a USB extension cable. Do not disconnect USB devices while they are transferring files.

When connecting an external hard drive, use the USB(HDD) port. We recommend that you use an external hard drive with its own power adapter.

Certain digital cameras and audio devices may not be compatible with the TV.

The TV supports the FAT file systems.

After sorting files in the Folder view mode, the TV can display up to 1,000 files per folder. If the USB device contains more than 8,000 files and folders, however, some files and folders might not be accessible.

Certain files, depending on how they are encoded, may not play on the TV.

Certain files are not supported on all models.

DivX and DTS codecs are not supported by the Panasonic.

Troubleshooting

Before requesting service or assistance, please follow these simple guides to resolve the problem.
If an error message appears, follow the message's instructions.
If the problem still persists, please contact your local Panasonic dealer for assistance.

Screen

Red, blue, green or black spots on the screen.

→ This is the characteristic of liquid crystal panels. The liquid crystal panel is built with very high precision technology. Occasionally, a few non-active pixels may appear on the screen as points of red, green, blue or black. This does not affect the performance of your TV and it is not a quality problem.

Chaotic image, noisy.

→ Set [Noise reduction] in the [Picture] menu to remove noise (p. 18).
→ Check nearby electrical products (car, motorcycle, fluorescent lamp).

No image is displayed.

→ Check the settings of [Contrast] or [Brightness] in the [Picture] menu (p. 18).
  ➡ > (on the screen) > [Display & Sound] > [Display & Picture] > [Picture Mode] > [Custom] > [Contrast] or [Brightness]
  ➡ Use key > [Display] > [Picture Mode] > [Custom] > [Contrast] or [Brightness]
  ➡ Use PICTURE key > [Picture Mode]> [Custom] > [Contrast] or [Brightness]
→ Check the TV is in AV mode. If the TV is in AV mode, check the selected input mode match the output of the external equipment (p. 16).

Unusual image is displayed.

→ Turn the TV off with Mains power On / Off switch (p. 14), then turn it on again.

Pictures from equipment connected via HDMI are unusual.

→ Check the HDMI cable is connected properly.
→ Turn the TV and equipment off, then turn them on again.
→ Check an input signal from the equipment (p. 21).
→ Use equipment compliant with EIA/CEA-861/861D.

Sound

No sound is produced.

→ Check the sound mute setting (p. 18) and volume.

Low level or distorted sound.

→ Sound signal reception may be deteriorated.

Sound output via HDMI connection is unusual.

→ Set the sound setting of the connected equipment to "2ch L.PCM".

General

The TV goes into Standby mode.

→ This TV is equipped with auto power standby function (p. 21).

The remote control does not work or is intermittent.

→ Replace the batteries (p. 6).
→ Point the remote control directly at the remote control signal receiver of the TV (within about 7 m and 30 degree angle).
→ Situate the TV away from sunshine or block sources of bright light from shining on the remote control signal receiver of the TV.

Parts of the TV become hot.

→ Even if the temperature of parts of the front, top and rear panels has risen, these temperature rises do not cause any problems in terms of performance or quality.

The TV panel moves slightly when it is pushed with a finger.

Clattered sound might be heard.

→ There is some flexibility around the panel to prevent damage. This is not a malfunction.

Overcurrent error message appears.

→ The connected USB device might cause this error. Remove the device and turn the TV off with Mains power On / Off switch, then turn it on again.
→ Check foreign objects are not inside the USB port.

Maintenance

First, remove the mains plug from the socket outlet.

Regular care

- Gently wipe the surface of the display panel, cabinet and pedestal by using a soft cloth.
- Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may lead to fire or electrical shock.

For stubborn dirt

First clean the dust on the surface. Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard as this could scratch the surface.
- Do not subject the TV's surfaces to water or detergent. Liquid inside the TV could lead to product failure.
- Do not subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Specifications

Model no.

55-inch model
TN-55W70CGH

65-inch model
TN-65W70CGH

Power source

AC 220 - 240 V, 50 / 60 Hz

Power consumption (Rated power / Standby power)

55-inch model
140 W / 0.5 W

65-inch model
170 W / 0.5 W

Display panel

Panel
LCD panel (LED backlight)

Visible screen size (diagonal)
55-inch model: 139 cm
65-inch model: 164 cm

Display resolution
55-inch model: 3840 (W) × 2160 (H)
65-inch model: 3840 (W) × 2160 (H)

Dimensions (W × H × D)

55-inch model
1226 × 777 × 286 mm (With Pedestal)
1226 × 710 × 82 mm (TV only)

65-inch model
1446 × 902 × 330 mm (With Pedestal)
1446 × 830 × 83 mm (TV only)

Weight

55-inch model
9.8 kg (With Pedestal)
9.5 kg (TV only)

65-inch model
15.5 kg (With Pedestal)
15.0 kg (TV only)

Connection terminals

AV in
Mini, 1.0 V [p-p] (75 Ω)

EARPHONE
Mini, 150 mV rms ~ 250 mV rms

HDMI 1 / 2 / 3 input
TYPE A Connectors

USB
USB 2.0 / 3.0 TYPE A Connectors
USB 2.0 DC 5 V, Max.500 mA
USB 3.0 DC 5 V, Max.900 mA

Sound

55 / 65-inch model
Audio output
20 W (10 W + 10 W)

Receiving systems / Band name

Systems

Systems	Function
1 PAL B, G 2 PAL I 3 PAL D, K	Reception of broadcast
4 SECAM B, G 5 SECAM D, K	
6 PAL	Playback from Special VCR's or DVD
7 PAL 50 Hz/5.5 MHz 8 PAL 50 Hz/6.0 MHz 9 PAL 50 Hz/6.5 MHz	Playback from Special Disc Players and Special VCR's or DVD

Digital TV

DTMB Standard

Aerial input

VHF / UHF

Operating conditions

Temperature

0 °C - 45 °C

Humidity

20 % - 80 % RH (non-condensing)

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- TN-55W70CGH and TN-65W70CGH comply with China Terrestrial Television National Standard (GB20600-2006) Mode-C=3780

Built-in wireless LAN

Standard compliance and Frequency range

IEEE 802.11 a/b/g/n/ac
2.4 ~ 2.5 GHz and 5.15 ~ 5.825 GHz

Security

Support for WPA / WPA2

Built-in Bluetooth

Bluetooth V 5.3
2.4 ~ 2.4835 GHz

OSS License

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Contact Information: oss-cd-request@gg.jp.panasonic.com

HEVC Advance™
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Works with Apple AirPlay

Works with Apple Home

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Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____

Serial Number _____

Panasonic Corporation
Web Site: https://www.panasonic.hk/

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