Panasonic

Operating InstructionsOLED TV

English

HZ1000G series HZ1000K series HZ1000M series HZ1000S series HZ1000T series



(image: TH-65HZ1000S)



For more detailed instructions, please refer to [eHELP] (Built-in Operating Instructions).

How to use [eHELP] ⇒ (p. 21)

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.

TQB4GD0325

F0320QK0 English

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DOLBY ATMOS

(HZ1000K series) (HZ1000M series) (HZ1000S series)



2 English

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(HZ1000K series)

(HZ1000M series)

(HZ1000S series)

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The illustration for TH-65HZ1000S is used in this manual unless otherwise mentioned.

Illustrations shown may be different between models and countries.

Important Notice

Do not display any still part of the image for a long period

In such cases the still part of the image remains dimly on the screen ("image retention"). This is not considered a malfunction and is not covered by the warranty.

- Typical still image parts:
 - Still images shown continuously on the same area (ex. channel number, channel logo, other logos or title image, etc.)
 - Still or moving pictures viewed in 4:3 or 14:9 aspect ratio, etc.
 - Video games



- To avoid image retention, the screen saver may be activated (OLED logo moves) or the on-screen message may move after a few minutes if no signals are sent or no operations are performed.
- Set [Logo Luminance Control] to [Max] to avoid image retention.

[eHELP] (Search by Purpose > Settings > Picture > Screen Settings > Logo Luminance Control)

- To avoid image retention, the screen may become dim when the motionless image is displayed. This is not a malfunction. The brightness of the screen returns to the previous level when the active image is displayed.
- Be sure to turn the TV off with the remote control to perform the panel maintenance. During the panel maintenance, LED turns to orange. (p. 18) The maintenance works as necessary.
- Set aspect ratio to [4:3 Full] for 4:3 image. For details, refer to [eHELP] (Search by Purpose > Watching > For best picture).
- For more information
 - ⇒ "Panel maintenance" (p. 18)

Malaysia Singapore

Notice for Hybrid Broadcast Broadband TV

- This TV is designed to meet the standard of Hybrid Broadcast Broadband TV ("Hybrid Broadcast Broadband TV Standard") as of January 2019.
- The specific services which comply with Hybrid Broadcast Broadband TV Standard may not be operated on this TVs.
- Compatibility with future standards of Hybrid Broadcast Broadband TV and future services which comply with Hybrid Broadcast Broadband TV Standard is not guaranteed.
- Not all features are available depending on service providers and network environments.

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.

Internet apps are provided by their respective service providers, and may be changed, interrupted, or discontinued at any time.

Panasonic assumes no responsibility and makes no warranty for the availability or the continuity of the services.

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.

Handling of customer information

Certain customer information such as IP address of your device (this TV)'s network interface will be collected as soon as you connect your Panasonic-branded smart television (this TV) or other devices to the internet (excerpted from our privacy policy). We do this to protect our customers and the integrity of our Service as well as to protect the rights or property of Panasonic. If you wish to know more about the processing of your information in this context, please refer to the full text of our privacy policy displayed at [eHELP] (Search by Purpose > Network > Network settings > Terms of Service and Settings).

When using Internet connecting function of this TV, after agreeing (in the jurisdictions where customer's consent is required to collect personal information under applicable privacy laws) to or reviewing Panasonic's terms of service / privacy policy (hereinafter referred to as terms and conditions etc.), customer information on the use of this unit may be collected and used according to terms and conditions etc.

For details of terms of service / privacy policy, refer to [eHELP] (Search by Purpose > Network > Network settings > Terms of Service and Settings).

Customer's personal information may be recorded on this TV by broadcasting organization or application provider. Before repairing, transferring or discarding this TV, erase all the information recorded on this TV according to the following procedure.

[eHELP] (Search by Purpose > Functions > Shipping Condition)

Customer information may be collected by provider via application provided by third parties on this TV or website. Please confirm the terms and conditions etc. of provider in advance.

- Panasonic will not be held responsible for collecting or using customer information via application provided by third party on this TV or website.
- When entering your credit card number, name, etc., pay special attention to the trustworthiness of the provider.
- Registered information may be registered in the server etc. of provider. Before repairing, transferring or discarding this TV, be sure to erase the information according to the terms and conditions etc. of provider.

The recording and playback of content on this or any other device may require permission from the owner of the copyright or other such rights in that content. Panasonic has no authority to and does not grant you that permission and explicitly disclaims any right, ability or intention to obtain such permission on your behalf. It is your responsibility to ensure that your use of this or any other device complies with applicable copyright legislation in your country. Please refer to that legislation for more information on the relevant laws and regulations involved or contact the owner of the rights in the content you wish to record or playback.

This product is licensed under the AVC patent portfolio license for the personal use of a consumer or other uses in which it does not receive remuneration 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 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.

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Transport only in upright position.



This mark indicates the product operates on AC 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).

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 depending on the model and countries. (HZ1000G series)



(HZ1000K series) (HZ1000M series) (HZ1000S series)



(HZ1000T series)



- This TV is designed to operate on AC ~ 220-240 V, 50 / 60 Hz. (HZ1000M series / HZ1000S series: AC ~ 110-240 V, 50 / 60 Hz)
- Insert the mains plug fully into the mains socket.
- To turn Off the apparatus completely, you must pull the mains plug out of the mains socket. Consequently, the mains plug should be easily accessible at all times
- 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 mains socket.
- Do not twist the lead, bend it excessively or stretch it
- Do not use a damaged mains plug or mains socket
- · Ensure the TV does not crush the mains lead.

■ Take care

Warning

 Do not remove covers and never modify the TV yourself as live parts are accessible and risk of electric shock 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.
- If the TV is used in an area where insects may easily enter the TV

It is possible for insects to enter the TV, such as small flies, spiders, ants, etc. which may cause damage to the TV or become trapped in an area visible on the TV, e.g. within the screen.

- 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 any strong force or impact to the display panel.
- Ensure that children do not climb on the TV.
- Do not place the TV on sloping or unstable surfaces, and ensure that the TV does not hang over the edge of the base.





Warning Stability Hazard

A TV may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the TV.
- ALWAYS use furniture that can safely support the TV.
- ALWAYS ensure the TV is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the TV or its controls.
- ALWAYS route cords and cables connected to your TV so they cannot be tripped over, pulled or grabbed.
- · NEVER place a TV in an unstable location.
- NEVER place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- NEVER place the TV on cloth or other materials that may be located between the TV and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the TV or furniture on which the TV is placed.

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

- 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



■ Suffocation / Choking Hazard

Warning

 The packaging of this product may cause suffocation, and some of the parts are small and may present a choking hazard to young children. 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 according to the specified procedure.

■ Radio waves

Warning

- Do not use the TV in any medical institutions or locations with medical equipment. Radio waves may interfere with the medical equipment and may cause accidents due to malfunction.
- Do not use the TV near any automatic control equipment such as automatic doors or fire alarms.
 Radio waves may interfere with the automatic control equipment and may cause accidents due to malfunction.
- Keep at least 15 cm away from the TV if you have a cardiac pacemaker. Radio waves may interfere with the operation of the pacemaker.
- Do not disassemble or alter the TV in any way.

■ 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

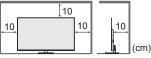
Caution

The TV uses 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.

■ Ventilation

Caution

Allow sufficient space (at least 10 cm) around the TV in order to help prevent excessive heat, which could lead to early failure of some electronic components.



 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.

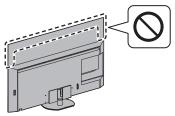
Moving the TV

Caution

Before moving the TV, disconnect all cables.

- At least two people are required to move the TV to prevent injury that may be caused by the tipping or falling of TV.
- Do not hold the screen part as shown below when moving the TV. This may cause malfunction or

How to carry the TV. ⇒ (p. 9)



 Transport only in upright position. Transporting the TV with its display panel facing upwards or downwards may cause damage to the internal circuitry.

■ 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

 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.

■ Excessive volume

Caution

Do not expose your ears to excessive volume from the headphones. Irreversible damage can be caused.



 If you hear a drumming noise in your ears, turn down the volume or temporarily stop using the headphones.

■ 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.
- · Remove the battery from the unit when not using for a prolonged period of time to prevent battery leakage, corrosion and explosion.

Accessories

Standard accessories

Remote Control

- ⇒ (p. 17)
- N2QAYB001252



Pedestal

⇒ (p. 8)

AV adaptor

⇒ (p. 15)



Batteries (2)

- R6
- ⇒ (p. 18)



Operating Instructions

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

Installing the TV

(A) Pedestal

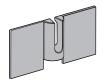


(4) Assembly screw



M4 × 15 (mm)

© Cable cover

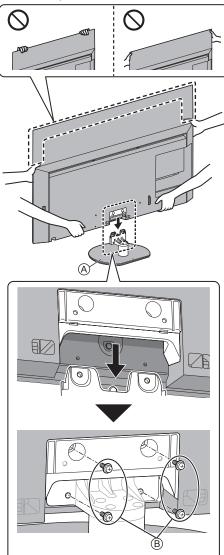


Preparations

- Do not hold the screen panel part.
- Make sure not to scratch or break the TV.
- Do not place the TV temporarily on the floor or desk.

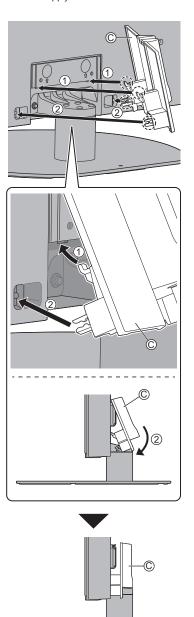
Assembling the pedestal

- Insert the pedestal firmly, otherwise it may come off when setting up the TV.
- Do not assemble the pedestal by any method other than those specified below.

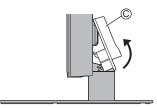


Attaching the cable cover

- Be careful not to nip the cables between the TV and the cable cover.
- Do not apply load to the cable cover.



• To remove from the TV:



Removing the pedestal

Be sure to remove the pedestal in the following procedures when you use the wall-hanging bracket or repack the TV.

- 1 Remove the cable cover ©.
- 2 Remove the assembly screws ® from the pedestal.
- 3 Pull out the pedestal from the TV.

Installing the wallhanging bracket

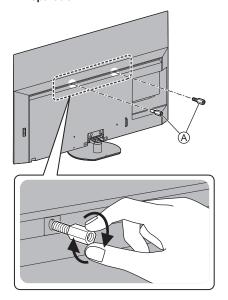
Please contact your local Panasonic dealer to purchase the recommended wall-hanging bracket.

Accessories (wall-hanging parts)

(A) Spacer nut (2)



■ Preparation

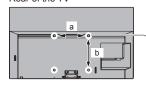


Attach the spacer nut

When changing to installation with pedestal, remove the spacer nut.

• To remove the spacer nut, use a spanner or the like.

Holes for wall-hanging bracket installation
 Rear of the TV



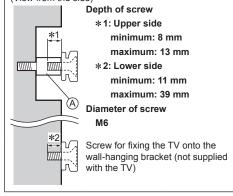
55-inch model a: 400 mm

b: 300 mm

65-inch model

a: 400 mm b: 400 mm

(View from the side)



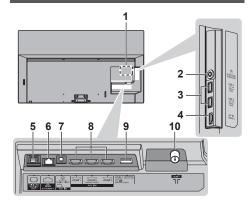
Warning

- Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself have the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.
- Carefully read the instructions accompanying optional accessories, and be absolutely sure to take steps to prevent the TV from falling off.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.
- Take care when fixing wall brackets to the wall.
 Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

Connections

- External equipment and cables shown are not supplied with this TV.
- Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any cables.
- Check the terminal type and cable plugs are correct for connection.
- Use a fully wired HDMI compliant cable.
- 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 affected.
- Please also read the manual of the equipment being connected.

Terminals

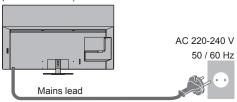


- 1 Model name plate
- 2 Headphone / Subwoofer jack ⇒ (p. 15)
- 3 USB 2 3 port --- This symbol indicates DC operation.
- 4 HDMI4
- 5 DIGITAL AUDIO OUT ⇒ (p. 15)
- 6 ETHERNET terminal ⇒ (p. 14)
- 7 AV IN ⇒ (p. 15)
- 8 HDMI1 3 ⇒ (p. 13, 14, 15)
- 9 USB 1 port
 - == This symbol indicates DC operation.
- 10 Aerial terminal ⇒ (p. 13)
- To watch content in 4K format, use HDMI terminal.
 (p. 14)

Basic connections

■ Mains lead

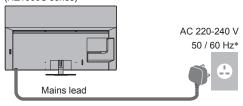
(HZ1000G series)



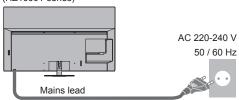
(HZ1000K series)

(HZ1000M series)

(HZ1000S series)



(HZ1000T series)



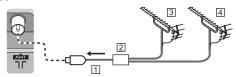
*: HZ1000M series / HZ1000S series: AC 110-240 V, 50 / 60 Hz

■ Aerial

Special notices for receiving digital terrestrial services

 If you receive analogue and digital TV signals through two separate aerials, use an RF mixer to mix them.

TV

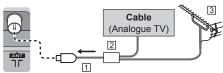


- 1 RF cable
- 2 RF mixer
- 3 Aerial (Analogue TV)
- 4 Aerial (Digital TV)
- If you receive analogue TV signals through a cable TV network, an aerial is required to receive digital TV signals.

In this case, using an RF mixer is not recommended because the TV signals interfere with each other.

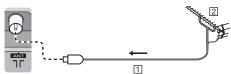
 An RF selector is available to switch analogue and digital TV signal.

TV



- ☐ RF cable
- 2 RF selector
- 3 Aerial (Digital TV)

TV



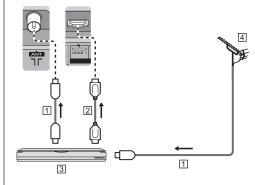
- 1 RF cable
- 2 Aerial
- For Digital TV, Analogue TV
- Keep the space between the TV and RF cable to prevent distorted image.
- Do not put the RF cable close to the mains lead to avoid noise.
- . Do not place the RF cable under the TV.
- An aerial, correct cable (75 Ω coaxial) and correct terminating 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
- To obtain optimum quality picture, select either an Aerial or a cable TV network.

AV devices

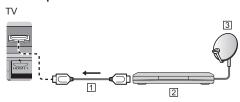
■ DVD Recorder / Blu-ray Recorder, etc.

TV



- 1 RF cable
- 2 HDMI cable
- 3 DVD Recorder / Blu-ray Recorder, etc.
- 4 Aerial

■ Set top box



- 1 HDMI cable
- 2 Set top box
- 3 Satellite dish

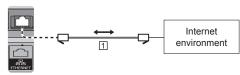
Network

A broadband network environment is required to be able to use internet services.

- If you do not have any broadband network services, please consult your retailer for assistance.
- Prepare the internet environment for wired connection or wireless connection.
- Setup of the network connection will start when first using the TV. ⇒ (p. 19)

■ Wired connection

TV



- 1 LAN cable (Shielded)
 - Use Shielded Twist Pair (STP) LAN cable.

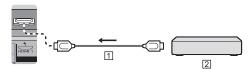
■ Wireless connection



- 1 Built-in wireless LAN (Rear of the TV)
- 2 Access point

Connections for 4K / HDR compatible equipment

TV



- 1 HDMI cable
- 2 4K / HDR compatible equipment
- Reproduces the image more precisely with the expanded colour gamut when connecting the 4K-compatible equipment. Mode2 is a mode that supports higher definition signals than Mode1. Set to Mode1 when the image or sound in HDMI input is not played properly.
- Connect the 4K compatible equipment to HDMI terminal using a 4K compatible cable and you can watch content in 4K format.
- Supporting HDR does not increase the peak brightness capabilities of the TV panel.

■ [HDMI Auto Setting] (Setup Menu)

Reproduces the image more precisely with the expanded colour gamut when connecting the 4K compatible equipment. Select the mode depending on the equipment.

[Mode1]:

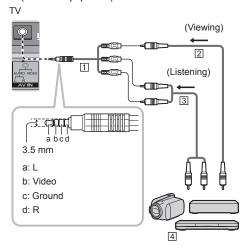
For better compatibility. Set to [Mode1] when the image or sound in HDMI input is not played properly. [Mode21:

For the 4K compatible equipment that has the function to output the image precisely with the expanded colour gamut

- To change the mode
 - Select the HDMI input mode connected to the equipment.
 - Display the menu and select [HDMI Auto Setting] (Setup Menu).
- For information about the valid format, refer to [eHELP] (Search by Purpose > Watching > 4K resolution > HDMI Auto Setting).

Other connections

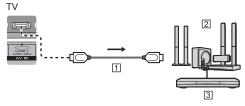
■ DVD Player / Camcorder / Game equipment (VIDEO equipment)



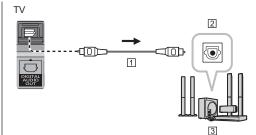
- 1 AV adaptor (Shielded)
- [2] Composite video cable (Shielded)
- Use shielded composite cable.
- 3 Audio cable (Shielded)
- Use shielded audio cables.
- 4 DVD Player / Camcorder / Game equipment

■ Amplifier (listening with external speakers)

 To enjoy multi-channel sound from external equipment (e.g. Dolby Digital 5.1ch), connect the equipment to the amplifier. For information about the connections, read the manuals of the equipment and amplifier.



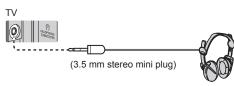
- 1 HDMI cable
- 2 Amplifier with speaker system
- 3 External equipment (DVD Player, etc.)
- Use HDMI2 to connect the TV to an amplifier which has eARC (Enhanced Audio Return Channel) / ARC (Audio Return Channel) function.
- If connecting to an amplifier without eARC / ARC function, use DIGITAL AUDIO OUT.



- 1 Optical cable
- 2 DIGITAL AUDIO IN
- 3 e.g. Amplifier with speaker system

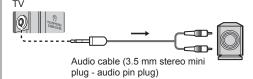
■ Headphones

- To use headphones, set [Headphone Terminal Output] to [Headphone].
- For information about the volume settings, refer to [eHELP] (Search by Purpose > Settings > Sound).



■ Subwoofer

- To use the subwoofer, set [Headphone Terminal Output] to [Sub Woofer]. (The subwoofer output from the TV is the same for both L and R.)
- For information about the headphone terminal output settings, refer to [eHELP] (Search by Purpose > Settings > Sound).



■ USB HDD (for recording)

- Use USB 1 port for connecting the USB HDD.
- For details, refer to [eHELP] (Search by Purpose > Recording).

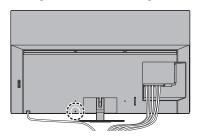
■ VIERA Link

- Use HDMI1 4 for VIERA Link connection.
- For details, refer to [eHELP] (Search by Purpose > Functions > VIERA Link "HDAVI Control™").

Cable arrangement

Fix the cables using the cable tie, cable clamp, etc. and then attach the cable cover to the TV.

■ Fixing the Mains lead using the cable tie



Attach the cable tie

Insert the cable tie of the mains lead in a hole



Bundle the cables



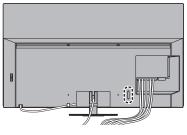
To loosen:

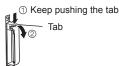


To remove from the TV:



■ Fixing the cables using the cable clamp

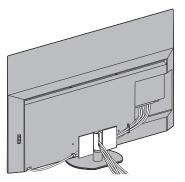




Bundle the cable



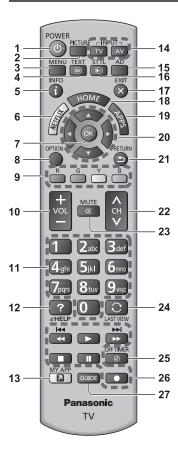
<Example>



- · Fix cables as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.

Identifying Controls

Remote Control



1 [(I)]: Switches TV On or Off (Standby)

2 PICTURE

Changes Viewing Mode.

3 [Main Menu]

 Press to access Picture, Sound, Network, Timer, Setup and Help Menus, etc.

4 Teletext button

5 Information

Displays channel and programme information.

6 NETFLIX

- · Accesses NETFLIX service directly.
- A broadband network environment is required in order to fully use this function.
- This service may be stopped or changed without notice.

7 OK

- Confirms selections and choices.
- Press after selecting channel positions to quickly change channel.
- Displays channel list.

8 [Option Menu]

Easy optional setting for viewing, sound, etc.

9 Coloured buttons

(red-green-yellow-blue)

 Used for the selection, navigation and operation of various functions.

10 Volume Up / Down

11 Numeric buttons

- · Changes channel and teletext pages.
- Sets characters.
- . When in Standby mode, switches TV on.

12 [eHELP]

• Displays [eHELP] (Built-in Operating Instructions).

13 [MY APP]

- Assigns a favourite application. After setting, starts the application easily by pressing this button.
- For details, refer to [eHELP] (Search by Purpose > Home > Apps).

14 Input mode selection

- TV switches to Digital TV / Analogue TV.
- AV switches to AV input mode from Input Selection list.

15 Audio Description

Displays [Audio Description].

16 Subtitles

Displays [Subtitle Menu].

17 EXIT

Returns to the normal viewing screen.

18 HOME

- Displays [Home].
- For details, refer to [eHELP] (Search by Purpose > Read first > Features).

9 APPS

• Displays [Apps] (applications list).

20 Cursor buttons

Makes selections and adjustments.

21 Return

Returns to the previous menu / page.

22 Channel Up / Down

23 Sound Mute On / Off

24 Last view

 Switches to previously viewed channel or input mode.

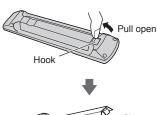
25 Off Timer

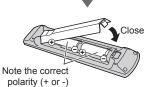
Sets the time for the TV to automatically turn off.

26 Operations for contents, connected equipment, etc.

27 TV Guide

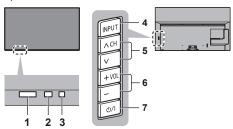
■ Installing / Removing batteries





Indicator / Control panel

 When pressing 4, 5, 6 buttons, the control panel guide appears on the right side of the screen for 3 seconds to highlight which button has been pressed.



Rear side of the TV

1 Remote control signal receiver

 Do not place any objects between the TV remote control signal receiver and remote control.

2 Ambient sensor

 Senses brightness to adjust picture quality when [Ambient Sensor] in the Picture Menu is set to [On].

3 Power LED

Red: Standby Green: On

> Depending on the ambient brightness, adjusts the brightness of LED to easy-toview levels automatically.

Orange: Standby with some functions (recording, etc.) active or panel maintenance in progress

 The LED blinks when the TV receives a command from the remote control.

4 Input mode selection

Press repeatedly until you reach the desired mode.
 [Main Menu]

 Press and hold for about 3 seconds to display main menu.

OK (when in the menu system)

18 English

5 Channel Up / Down

Cursor Up / Down (when in the menu system)

6 Volume Up / Down

Cursor Left / Right (when in the menu system)

7 Mains power On / Off switch

- Use to switch the mains power.
- To turn Off the apparatus completely, you must pull the mains plug out of the mains socket.
- [(1)/|]: Standby / On

Panel maintenance

Be sure to turn the TV off with the remote control to perform the panel maintenance. During the panel maintenance, LED turns to orange.

During panel maintenance, avoid touching and exerting any pressure on the screen. (e.g. wiping the screen, etc.)

There are two types of the maintenance as following.

Normal maintenance automatically starts, and it takes approx. 10 minutes.

2 Regular maintenance takes approx. 80 minutes.

- When regular maintenance is necessary, the message appears on the screen after turning the TV off with the remote control. Follow the onscreen instructions.
- During the panel maintenance, a white horizontal line appears on the screen for a while. This is not a malfunction.
- For information about panel maintenance, refer to [eHELP] (Search by Purpose > Watching > For best picture > Screen Settings).

First time Auto Tuning

When the TV is turned on for the first time, it will automatically search for available TV channels and give options to set up the TV.

- These steps are not necessary if the setup has been completed by your local dealer.
- Please complete connections (p. 12 15) and settings (if necessary) of the connected equipment before starting Auto Tuning. For information about the settings for the connected equipment, read the manual of the equipment.

1 Plug the TV into a live mains socket and turn the power on

POWER

Takes a few seconds to be displayed.





2 Select the following items

Set up each item by following the on-screen instructions.

Example:

Please select your viewing environment.

Home Shop

■ How to use the remote control



Move the cursor



Access the item / store the setting



Return to the previous item (if available)

Select the language Select your country Select [Home]

Select [Home] for use in a home viewing environment.

- [Shop] is for shop display.
- To change the viewing environment later on, the set will need to have all settings initialised by accessing Shipping Condition.

Set up the network connection

Tick the TV signal mode to tune, and then select [Start Auto Tuning]

• If you use an RF selector, switch it to the digital TV signal before starting the Auto Tuning. As soon as the digital TV scan is finished, switch it to the analogue TV signal to tune analogue channels. Even if some channels are not tuned correctly, you can try to tune them by [Auto Tuning] in [Setup] menu.

Select your region (Digital TV) Malaysia

Enter your postcode Indonesia

When you select the analogue TV signal, select your area.

 When selecting [CATV/Other], press the OK button, and then select the Channel Plan from Indian CATV, South Africa, American System, American CATV or Japan CATV.

Auto Tuning is now complete and the TV is ready for viewing.

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

Note

- The TV goes into Standby mode when no operation is performed for 4 hours if [Auto Standby] in the Timer Menu is set to [On].
- The TV goes into Standby mode when no signal is received and no operation is performed for 10 minutes if [No signal Power off] in the Timer Menu is set to [On].
- To retune all channels
 - **⇒** [Auto Tuning] in [Tuning Menu] (Setup Menu)
- . To add the available TV signal mode later
- ⇒ [Add TV Signal] in [Tuning Menu] (Setup Menu)
- To initialise all settings
 - [Shipping Condition] in [System Menu] (Setup Menu)

Watching TV

1 Turn power on



or

POWER



(Remote Control)

Mains power On / Off switch should be on.
 n 18)

2 Select Digital TV or Analogue TV



 If you use an RF selector, switch it whenever you switch between Digital TV and Analogue TV.

3 Select a channel



up

down

or



 To select a channel position with 2 or more-digit, e.g. 399



How to Use eHELP

[eHELP] is the detailed operating instructions built into the TV, and gives a more detailed explanation for a better understanding of the operation of each feature.

1 Display [eHELP]



or









[eHELP]

 If the [eHELP] has been accessed previously since the TV was turned on, the confirmation screen is displayed to select whether to go to the [First page] or to the [Last viewed page].

2 Select the menu





To access [How to use]



[Keyword Search]:

Search the content of eHELP in the keyword.

[Search by Purpose]:

Search the content of eHELP for each item.

[Support]:

Access the support information (FAQs, etc.).

3 Select the item

Example:





To return to the previous screen / field RETURN



To scroll the description (if more than 1 page)
 While the description is highlighted



To open the reference screen (



 To display the menu related to the description (only for some descriptions)



To check the features of this TV
 Search by Purpose > Read first > Features

FAQs

Before requesting service or assistance, please follow these simple guides to solve the problem.

• For details, refer to [eHELP] (Support > FAQs).

It takes several seconds to display the image after turning the TV on

 When turning the TV on, the panel adjustment is performed. It is not a malfunction.

The TV does not switch on

 Check the mains lead is plugged into the TV and the mains socket.

The TV goes into Standby mode

Auto power standby function is activated.

The remote control does not work or is intermittent

- Are the batteries installed correctly? → (p. 18)
- Has the TV been switched on?
- The batteries may be running low. Replace them with new ones.
- Point the remote control directly at the TV's remote control signal receiver (within about 7 m and a 30 degree angle of the signal receiver).
- Situate the TV away from sunshine or other sources of bright light so they do not shine on the TV's remote control signal receiver.

No image is displayed

- · Check the TV is turned on.
- Check the mains lead is plugged into the TV and the mains socket.
- Check the correct input mode is selected.
- Check the setting of [AV] in [Input Selection] to match the signal being output by the external equipment.
- Is [Luminance Level], [Contrast], [Brightness] or [Colour] in the Picture Menu set to the minimum?
- Check all required cables and connections are firmly in place.

An unusual image is displayed

- This TV has a built-in Self Test. Makes a diagnosis of picture or sound problems.
 - ⇒ [TV Self Test] (Help Menu)
- Turn the TV off with Mains power On / Off switch, then turn it on again.
- If the problem persists, initialise all settings.
- [Shipping Condition] in [System Menu] (Setup Menu)

The image or sound from external equipment are unusual when the equipment is connected via HDMI

Set [HDMI Auto Setting] (Setup Menu) to [Mode1]
 (p. 14)

No sound is produced from the connected HDMI equipment

 Set the audio output format of the connected HDMI equipment to PCM.

Parts of the TV become hot

 Parts of the TV may become hot. These temperature rises do not pose any problems in terms of performance or quality.

When pushed with a finger, the display panel moves slightly and makes a noise

 There is a little gap around the panel to prevent damage to the panel. This is not a malfunction.

About the inquiry

 Please contact your local Panasonic dealer for assistance.

If you make an inquiry from a place where this TV is not present, we cannot answer about contents that require visual confirmation for connection, phenomenon, etc. of this TV itself.

LED turns to orange

- Panel maintenance may be in progress.
- LED turns to orange again in standby mode when the TV is turned on / off before the panel maintenance is completed. (Be sure to turn the TV off with the remote control to perform panel maintenance.)
- During panel maintenance, avoid touching and exerting any pressure on the screen. (e.g. wiping the screen, etc.)
- For more information
 - → "Panel maintenance" (p. 18)

The panel maintenance notification is displayed when turning the TV off with Standby On / Off switch of the TV's remote control.

- Perform the panel maintenance. Select [Turn the TV off now] and press OK button to start the panel maintenance.
- The panel maintenance is interrupted when selecting [Don't start panel maintenance this time] or turning the TV off while the notification is displayed.
 - The notification is displayed again when turning the TV off with Standby On / Off switch of the TV's remote control next time.
- For more information
 - ⇒ "Panel maintenance" (p. 18)

A white horizontal line appears in Standby mode.

 A white horizontal line may appear on the screen for a while to adjust the panel. This is not a malfunction.

Maintenance

First, remove the mains plug from the mains socket.

Display panel, Cabinet, Pedestal

Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to remove dirt or fingerprints.

For stubborn dirt:

- (1) First clean the dust from the surface.
- (2) Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water).
- (3) Wring out the cloth firmly. (Please note, do not let liquid enter the TV inside as it may lead to product failure.)
- (4) Carefully wipe moisten and wipe away the stubborn
- (5) Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.
- Take care not to 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.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may cause fire or electrical shock.

Specifications

■ TV

Model No.

55-inch model : TH-55HZ1000G, TH-55HZ1000K, TH-55HZ1000M, TH-55HZ1000S,

TH-55HZ1000T

65-inch model : TH-65HZ1000K, TH-65HZ1000S

Dimensions (W × H × D)

55-inch model

1 228 mm × 772 mm × 348 mm (With Pedestal)

1 228 mm × 712 mm × 58 mm (TV only)

65-inch model

1 449 mm × 896 mm × 348 mm (With Pedestal)

1 449 mm × 837 mm × 58 mm (TV only)

Mass

55-inch model

25.5 kg Net (With Pedestal)

21 kg Net (TV only)

65-inch model

31.5 kg Net (With Pedestal)

27 kg Net (TV only)

Power source

(HZ1000G series)

(HZ1000K series)

(HZ1000T series)

AC 220-240 V. 50 / 60 Hz

(HZ1000M series)

(HZ1000S series)

AC 110-240 V, 50 / 60 Hz

Rated power consumption

55-inch model

(HZ1000G series)

(HZ1000T series)

347 W

(HZ1000K series)

343 W

(HZ1000M series)

(HZ1000S series)

349 W

65-inch model

(HZ1000K series)

453 W

(HZ1000S series)

458 W

Standby power consumption

0.50 W

Visible screen size (diagonal)

55-inch model

139 cm

65-inch model

164 cm

Display resolution

3 840 (W) × 2 160 (H)

Panel

OLED panel

Sound

Speaker output

30 W (15 W × 2)

Headphones / Subwoofer

3.5 mm stereo mini jack × 1

Connection terminals

AV IN

VIDEO

1.0 V[p-p] (75 Ω)

AUDIO L - R

0.5 V[rms]

HDMI1 / 2 / 3 / 4 input

TYPE A Connectors

HDMI1 / 3 / 4: 4K, Content Type, Deep Colour, x.v.Colour™

HDMI2: 4K, Content Type, eARC (Enhanced Audio Return Channel) / ARC (Audio Return Channel), Deep Colour, x.v.Colour™

This TV supports "HDAVI Control 5" function.

ETHERNET

10BASE-T / 100BASE-TX

USB 1/2/3

USB 1:DC == 5 V, Max. 900 mA [SuperSpeed USB (USB 3.0)]

USB 2 / 3: DC == 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]

DIGITAL AUDIO OUT

PCM / Dolby Audio, Fibre optic

Receiving systems / Band name

	17 Systems	Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC	
Ľ	3.58/4.5 MHz)	
8	NTSC 4.43/5.5 MHz	Playback from Special VCR's or DVD
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	
11	NTSC 3.58/5.5 MHz	
12	NTSC 3.58/6.0 MHz	
13	NTSC 3.58/6.5 MHz	
14	SECAM I	
15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's or DVD
16	PAL 60 Hz/6.0 MHz	
17	PAL 60 Hz/6.5 MHz	

Digital TV

7 MHz VHF / 8 MHz UHF free-to-air TV broadcast reception

Receiving channels (Analogue TV)

VHF BAND

2-12 (PAL/SECAM B, K1)

0-12 (PAL B AUST.)

1-9 (PAL B N.Z.)

1-12 (PAL/SECAM D)

1-12 (NTSC M Japan)

2-13 (NTSC M USA)

UHF BAND

21-69 (PAL G, H, I/SECAM G, K, K1)

28-69 (PAL B AUST.)

13-57 (PAL D, K)

13-62 (NTSC M Japan)

14-69 (NTSC M USA)

CATV

S1-S20 (OSCAR)

1-125 (USA CATV)

C13-C49 (JAPAN)

S21-S41 (HYPER)

Z1-Z37 (CHINA)

5A, 9A (AUST.)

Aerial input

VHF / UHF

Operating conditions

Temperature

0 °C - 40 °C

Humidity

20 % - 80 % RH (non-condensing)

Built-in wireless LAN

Standard compliance and Frequency range*1

IEEE802.11a/n/ac

5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz

IEEE802.11b/g/n

2.400 GHz - 2.4835 GHz

Security

WPA2-PSK (TKIP/AES)

WPA-PSK (TKIP/AES)

WEP (64 bit/128 bit)

Bluetooth® wireless technology*2

Standard Compliance

Bluetooth 4.2

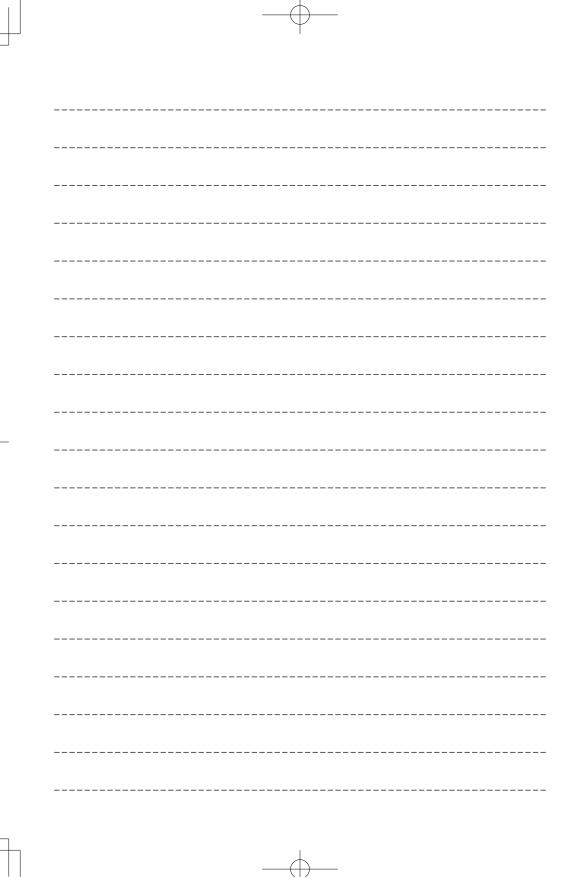
Frequency Range

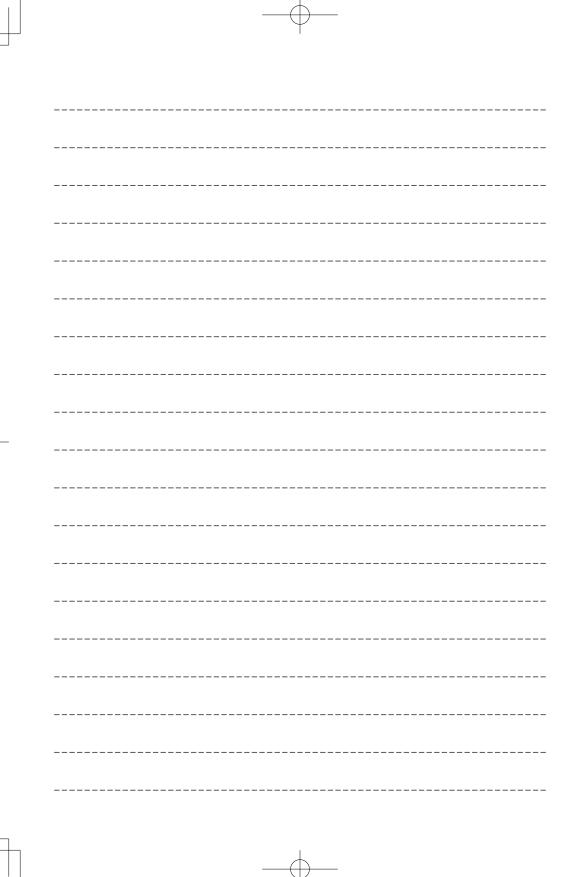
2.402 GHz - 2.480 GHz

- * 1:The frequency and channel differ depending on the country.
- * 2:Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously.

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- For information about the open source software, refer to [eHELP] (Search by Purpose > Read first > Before use > Licence).





(HZ1000S series)

Singapore

Complies with DB01017

(HZ1000M series)

UAE

Built-in wireless LAN and Bluetooth

UAE-TRA

REGISTERED No: ER78946/20 DEALER No: DA0052708/10

(HZ1000T series)

Thailand

This telecommunication equipment conforms to NTC/ NBTC technical requirement.

(HZ1000M series)

Oman

Built-in wireless LAN and Bluetooth

OMAN-TRA

R/9216/20

D090281

Customer's Record

The model number and serial number are located on the side of the unit or the model name plate on the rear of the unit. 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: http://www.panasonic.com

Printed in Malaysia

English

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