Panasonic

Operating Instructions
OLED TV

English

Model No.
TX-55LZ1500B
TX-65LZ1500B



(image: TX-65LZ1500B)

eHELP

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

● How to use [eHELP] ➡ **(p. 23)**

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.

TQB4GA0146

F0222HN0

English

Contents

Be Sure to Read

Important Notice ····· 3
Safety Precautions ····· 5
Accessories ····· 9
Installing the TV ····· 10
Installing the wall-hanging bracket ····· 12
Connections ····· 12
Identifying Controls ····· 18
First time Auto Setup ····· 22
Watching TV ····· 23
How to Use eHELP ····· 23
FAQs ····· 24
Maintenance ····· 25
Specifications ····· 26

Dolby Atmos

HEVC Advance™
Covered by patents at patentlist.accessadvance.com

AMD FreeSync Premium

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- For information about the trademarks, refer to [eHELP] (Search by Purpose > Read first > Before use > Licence).

The illustration for TX-65LZ1500B is used in this manual unless otherwise mentioned.

Illustrations shown may be different depending on the model.

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 16:9 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 > Watching > For best picture > Screen Settings)
- 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. 21) 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 > Aspect).
- For more information
  ➡ **“Panel maintenance” (p. 21)**

Notice for DVB / Data broadcasting / IPTV functions

- This TV is designed to meet the standards (as of February, 2022) of digital services.
- Not all the features are available depending on the country, area, broadcaster, service provider and network environment.
- Compatibility with future services is not guaranteed.

Internet apps, voice control function 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.

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.

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, L.L.C.

See http://www.mpegla.com.



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).

Transport only in upright position.

Safety Precautions

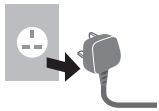
To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings and cautions below:

■ Mains plug and lead

Warning

If you detect anything unusual, immediately switch off the mains supply switch and remove the mains plug.

- Mains plug type may vary depending on the country.



IMPORTANT:

THE MOULDED MAINS PLUG

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This TV is supplied with a moulded 3-pin mains plug for your safety and convenience.

A 10 amp fuse is fitted in this mains plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a 10 amp rating and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the fuse body.

If the mains plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the mains plug must not be used until a replacement cover is obtained.

A replacement fuse cover may be purchased from your local dealer.

Do not cut off the mains plug.

Do not use any other type of mains lead except the one supplied with this TV.

The supplied mains lead and moulded plug are designed to be used with this TV to avoid interference and for your safety.

If the mains socket in your home is not suitable, get it changed by a qualified electrician.

If the plug or mains lead becomes damaged, purchase a replacement from an authorised dealer.

How to replace the fuse:

For plug type shown in example 1

Lift out the removable fuse cover with a screwdriver and replace the fuse, then refit it securely into the mains plug.

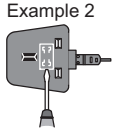
For plug type shown in example 2

Lift open the fuse cover in the mains plug with a screwdriver and replace the fuse, then press the fuse cover down securely.

Example 1



Example 2



- This TV is designed to operate on AC ~ 220-240 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.
- If the TV is used in an environment where there is dust or smoke.

  It is possible for dust/smoke particles to enter the TV through the air vents during normal operation which can become trapped inside the unit. This may cause overheating, malfunction, deterioration in picture quality, etc.
- 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 and the remote control 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 and the remote control 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 and the remote control if you have a cardiac pacemaker. Radio waves may interfere with the operation of the pacemaker.
- Do not disassemble or alter the TV and the remote control 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

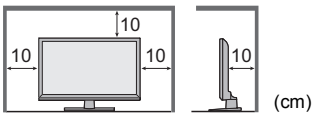
Caution

- The TV and the remote control use the 2.4 GHz radio frequency ISM band (Bluetooth®). To avoid malfunctions or slow response caused by radio wave interference, keep the TV and the remote control 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.



(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.

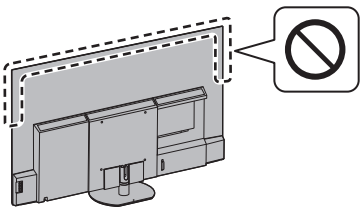
■ Moving the TV

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 damage.

  How to carry the TV. ➡ **(p. 10)**



- 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 live mains socket.

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

■ 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

Warning

- Keep the batteries out of reach of children to prevent swallowing.

  Adverse physical effects can result if accidentally swallowed. If you suspect a child has swallowed one, seek medical attention immediately.

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.

OLED TV

(For Great Britain)

UK Declaration of Conformity (DoC)

Hereby, Panasonic Entertainment & Communication Co., Ltd. declares that this TV is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017 No.1206.

If you want to get a copy of the original DoC of this TV, please visit the following website:

https://www.ptc.panasonic.eu/compliance-documents

Contact in the UK:

Panasonic Testing Centre on behalf of Panasonic UK, a branch of Panasonic Marketing Europe GmbH (Importer) Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

Importer for the UK:

Panasonic UK, a branch of Panasonic Marketing Europe GmbH, Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

(For Ireland / Northern Ireland)

EU Declaration of Conformity (DoC)

Hereby, Panasonic Entertainment & Communication Co., Ltd. declares that this TV is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.

If you want to get a copy of the original DoC of this TV, please visit the following website:

https://www.ptc.panasonic.eu/compliance-documents

Authorized Representative in EU:

Panasonic Marketing Europe GmbH

Panasonic Testing Centre

Winsbergring 15, 22525 Hamburg, Germany

Manufacturer:

Panasonic Entertainment & Communication Co., Ltd.

1-10-12 Yagumo-higashi-machi, Moriguchi City, Osaka 570-0021, Japan

Assembled in the Republic of Poland

5.15 – 5.35 GHz band of wireless LAN is restricted to indoor operation only in the following countries.

Ireland, United Kingdom (Northern Ireland)

Output power transmitted in the frequency bands

Type of wireless	Frequency band	Output Power (EIRP)
Wireless LAN	2412-2472 MHz	< 20 dBm
	5150-5250 MHz	< 23 dBm
	5250-5350 MHz	< 23 dBm
	5470-5725 MHz	< 23 dBm
Bluetooth®	2402-2480 MHz	< 10 dBm

Accessories

Standard accessories

Remote Control ➡ **(p. 18)**

- N2QBYA000061

Pedestal ➡ **(p. 10)**

Batteries (2) ➡ **(p. 19)**

- R03

Operating Instructions

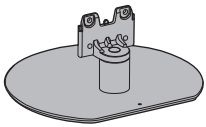
Production Registration Leaflet

PUK TV Leaflet

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

Installing the TV

Ⓐ Pedestal

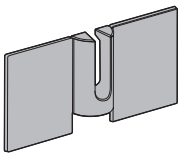


Ⓑ Assembly screw (4)



M4 × 15 (mm)

Ⓒ Cable cover

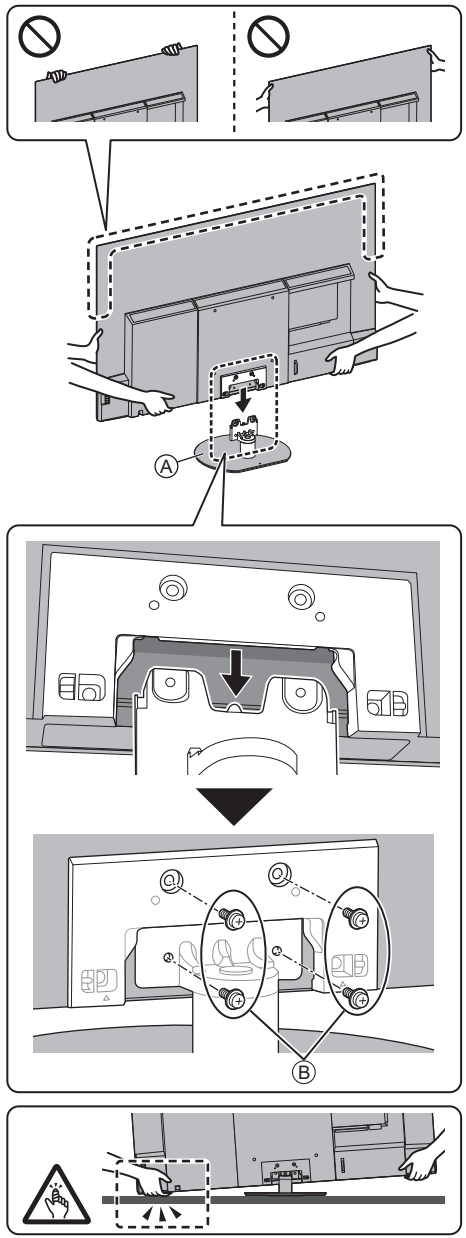


Preparations

- 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.

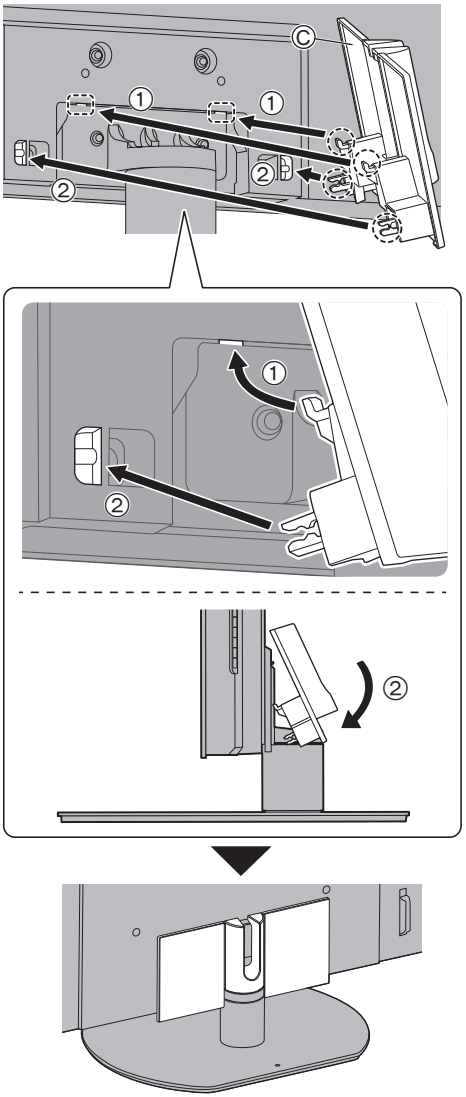
Assembling the pedestal

- Insert the pedestal firmly, otherwise it may come off when setting up the TV.
- Make sure that all screws are securely tightened.
- Do not assemble the pedestal by any method other than those specified below.

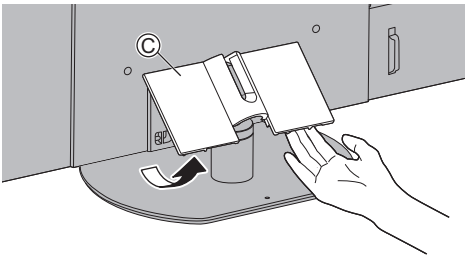


Attaching the cable cover

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

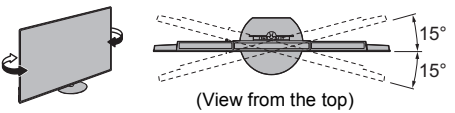


- **To remove from the TV:**



Adjusting the panel to your desired angle

- Do not place any objects within the full rotation range.



(View from the top)

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.

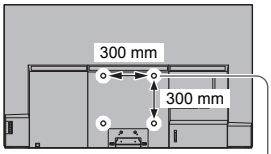
3 Pull out the pedestal from the TV.

Installing the wall-hanging bracket

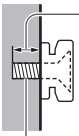
Please contact your local Panasonic dealer to purchase the recommended wall-hanging bracket.

- Holes for wall-hanging bracket installation

  Rear of the TV



(View from the side)



Depth of screw
minimum: 12 mm
maximum: 39 mm
Diameter of screw
M6

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)

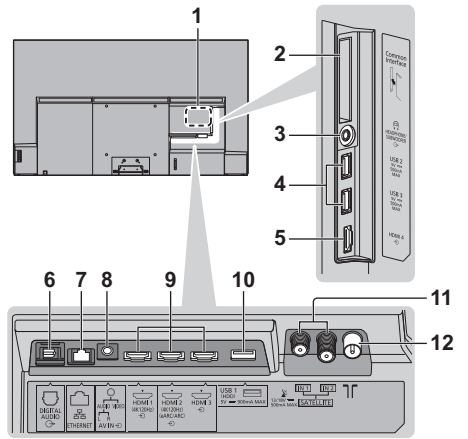
Warning

- 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 CI slot
3 Headphone / Subwoofer jack (3.5 mm stereo mini plug)
4 USB 2 - 3 port
⎓ **This symbol indicates DC operation.**
5 HDMI 4
6 DIGITAL AUDIO
7 ETHERNET terminal
- Use Shielded Twist Pair (STP) LAN cable.

8 AV IN
9 HDMI 1 - 3
10 USB 1 port
⎓ **This symbol indicates DC operation.**
11 Satellite terminal
12 Terrestrial terminal

Basic connections

■ AV devices

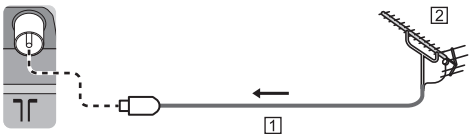
(DVD Recorder / Blu-ray Recorder, Cable TV box, etc.)

- For details, refer to [eHELP] (Search by Purpose > Watching > Basic > Basic connection).

■ Aerial

(For viewing digital / analogue broadcasts)

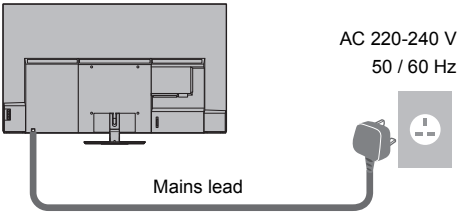
TV



1 RF cable

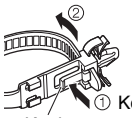
2 Terrestrial aerial

■ Mains lead

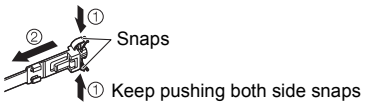


Cable tie (Bundled the mains lead)

To loosen:



To remove from the TV:



■ Satellite connection

- To ensure your satellite dish is correctly installed, please consult your local dealer. Also consult the received satellite broadcasting companies for details.
- For details, refer to [eHELP] (Search by Purpose > Watching > Basic > Satellite connection).

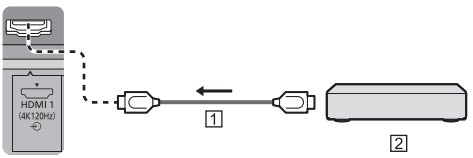
■ Network

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. 22)**
- For details, refer to [eHELP] (Search by Purpose > Network > Network connections).

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 and more smoothly with the high frame rate when connecting the 4K compatible equipment. [Mode2] is a mode that supports higher definition signals than [Mode1]. [Mode3] is a mode that supports higher frame rate signals than [Mode2]. 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 and more smoothly with the high frame rate 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.

[Mode2]:

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

[Mode3]:

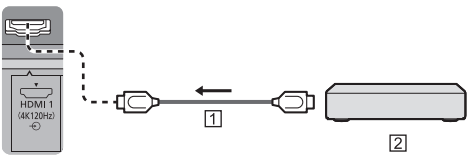
For the 4K compatible equipment that has the function to output the high frame rate image

(This mode is valid in HDMI 1 and 2)

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

Connection for VRR/AMD FreeSync™ Premium compatible equipment

TV



1 HDMI cable

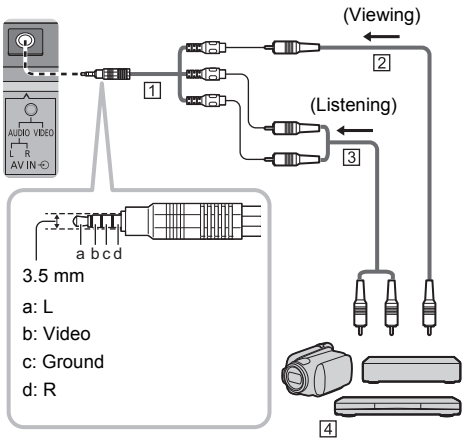
2 VRR/AMD FreeSync™ Premium compatible equipment

- VRR (Variable Refresh Rate)/AMD FreeSync™ Premium provides smoother gaming experience with low latency and without image stuttering, tearing.
- To enable VRR/AMD FreeSync™ Premium, set [VRR] (Picture > Option Settings) to [On].
- For details, refer to [eHELP] (Search by Purpose > Watching > For best picture > Option Settings).

Other connections

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

TV



1 AV adaptor (Shielded / not supplied)

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.
- For details, refer to [eHELP] (Search by Purpose > Watching > External equipment > External connection).

■ Headphones / Subwoofer

- To use headphones, set [Headphone Terminal Output] in the Sound menu to [Headphone].
- To use the subwoofer, set [Headphone Terminal Output] in the Sound menu to [Sub Woofer]. (The subwoofer output from the TV is the same for both L and R.)
- For details, refer to [eHELP] (Search by Purpose > Watching > External equipment > External connection).

■ 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 HDMI 1 - 4 for VIERA Link connection.
- For details, refer to [eHELP] (Search by Purpose > Functions > VIERA Link “HDAVI Control™”).

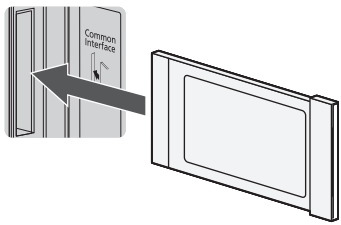
■ Common Interface

- Turn the TV off with Mains Power On / Off switch whenever inserting or removing the CI module.
- If a smart card and a CI module come as a set, first insert the CI module, then insert the smart card into the CI module.
- Insert or remove the CI module completely in the correct direction as shown.
- Normally encrypted channels will appear. (Viewable channels and their features depend on the CI module.)

  If encrypted channels do not appear

  ➡ **[Common Interface] in [System Menu] ([Setup] menu)**
- There might be some CI modules in the market with older firmware versions that do not work fully interoperable with this new CI+ v1.4 TV. In this case, please contact your content provider.
- For details, refer to [eHELP] (Search by Purpose > Functions > Common Interface), read the manual of the CI module, or check with the content provider.
- Be sure to remove the CI module card, etc. before repairing, transferring or discarding.

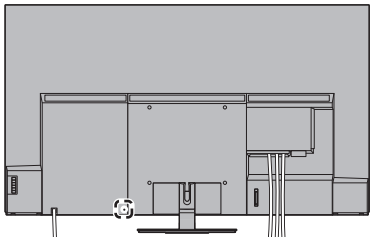
TV



CI module

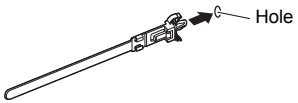
Cable arrangement

■ Fixing the Mains lead using the cable tie

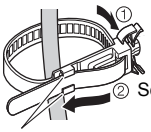


Attach the cable tie

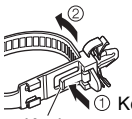
Insert the cable tie of the mains lead in a hole



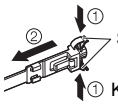
Bundle the cables



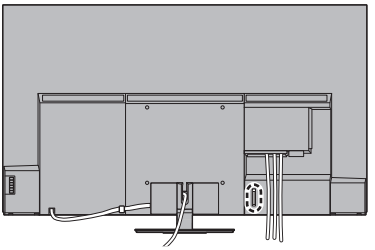
To loosen:

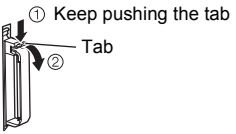


To remove from the TV:



■ Fixing the cables using the cable clamp

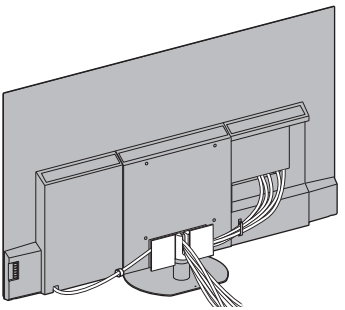




Bundle the cable



<Example>



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

Connecting Bluetooth® devices

Registering Bluetooth® devices

This TV supports Bluetooth® communications.

Bluetooth® devices that have been registered (paired) with this TV can connect to (communicate with) this TV.

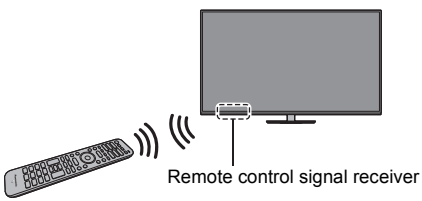
- When registering (pairing) a Bluetooth® device with this TV, move the device within 50 cm of the TV.
- It is not possible to register (pair) Bluetooth® devices that are not compatible with this TV.
- If a Bluetooth® enabled device that you have registered (paired) with this TV is then registered and used on another device, it may then be made unavailable for use with this TV. Register the device on this TV again if this occurs.
- You can register Bluetooth® audio devices that support A2DP on this TV. Due to the characteristics of wireless technology, there will be some delay between the playback of video and audio.
- A maximum of 2 audio devices that support A2DP can be used simultaneously. To use 2 devices, set [Dual Audio] (Setup > Bluetooth Setup > Bluetooth Audio Settings) to [On], and then connect the second device.
- For details, refer to [eHELP] (Search by Purpose > Functions > Bluetooth devices).

Registering the remote control (supplied)

Either Bluetooth® wireless technology or the infrared communication function can be used for the transmissions between the TV and the remote control.

Since voice controls (p. 20) use Bluetooth® wireless technology, the remote control needs to be registered (paired) with the TV.

- When using the remote control for the first time after purchase, when you press any button while pointing the remote control at the remote control signal receiver with batteries inserted, the remote control is automatically registered (paired).
- When registering, face the remote control at the remote control signal receiver on the TV, within about 50 cm.
- Registration may not be completed correctly if the batteries in the remote control are running low.



■ If registration fails

If registration (pairing) is not completed properly, try registering again.

1 Display the menu bar and select [Main Menu], and then select [Setup]



2 Select the remote control setting menu in [System Menu]

3 Select [Pairing]

- The registration screen is displayed, so follow the on-screen instructions to register.

■ When the remote control does not respond

1 Press and hold the buttons shown below simultaneously for about 3 seconds



2 Point the remote control at the remote control signal receiver and follow the procedure below to deregister (unpair) the remote control

MENU ➡ [Main Menu] ➡ [Setup] ➡ [System Menu] ➡ [Remote Control Settings] ➡ [Unpair]

3 Register (pair) the remote control again ➡ **"If registration fails" (p. 17)**

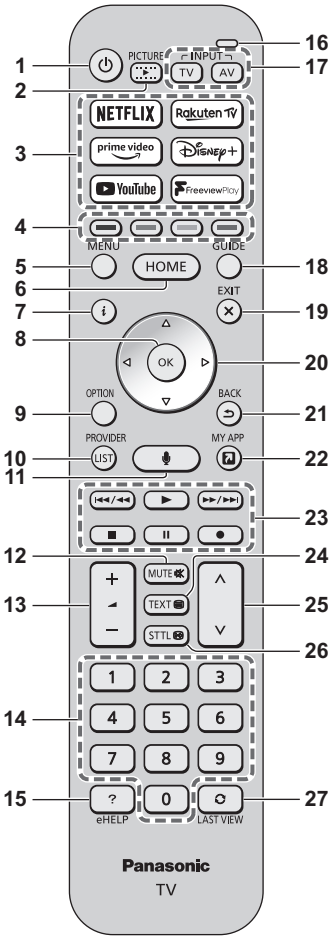
- For details, refer to [eHELP] (Search by Purpose > Functions > Voice Control > Settings).

Note

- If the remote control is not registered (paired) with the TV, they communicate via infrared. Face the remote control at the TV's remote control signal receiver for operation when infrared communication is used. Please note that voice controls will not be available.
- If the remote control is registered (paired) with the TV, they communicate via Bluetooth®. You will not need to face the remote control at the TV's remote control signal receiver when Bluetooth® communication is used. Please note, however, that you will need to face the remote control at the remote control signal receiver for operation when turning on or off the TV.

Identifying Controls

Remote Control



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

2 PICTURE

- Changes the viewing mode.

3 Netflix, Prime Video, YouTube, Rakuten TV, Disney+, Freeview Play

- Used to access each service directly.

4 Coloured buttons

(red-green-yellow-blue)

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

5 MENU

- Displays the menu bar.
  It is possible to access menus such as Picture, Sound, Network, Timer, Setup and Help by selecting [Main Menu] on the menu bar.

6 HOME

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

7 Information

- Displays channel and programme information.

8 OK

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

9 Option menu

- Displays optional settings.

10 PROVIDER/LIST

- Starts operator application or displays channel list.

11 Voice control button

- Used for the voice control function.

12 Sound Mute On / Off

13 Volume Up / Down

14 Numeric buttons

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

15 [eHELP]

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

16 Microphone

- Operates with the voice control microphone.

17 Input mode selection

- TV - switches to Freeview TV / DVB / Analogue TV / Satellite TV.
- AV - switches to AV input mode from the input selection list.

18 TV Guide

- Displays Electronic Programme Guide.

19 EXIT

- Returns to the normal viewing screen.

20 Cursor buttons

- Makes selections and adjustments.

21 BACK

- Returns to the previous menu / page.

22 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).

23 Operations for contents, connected equipment, etc.

24 Text service button

25 Channel Up / Down

26 Subtitles

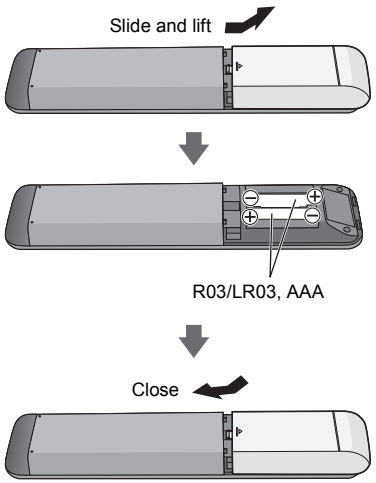
- Displays subtitles.

27 Last view

- Switches to previously viewed channel or input mode.

■ Installing / Removing batteries

- Note the correct polarity (+ or -).

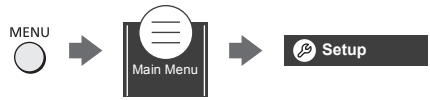


Remote Control Mode setting

If another Panasonic TV is near the TV, the other TV may be operated when you use the remote control with infrared. Change the TV's remote control mode to avoid simultaneous operation.

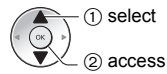
- Remote control mode 1 is the default setting.

1 Display the menu bar and select [Main Menu], and then select [Setup]

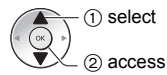




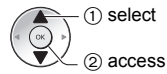
2 Select the remote control setting menu in [System Menu]



3 Select the remote control mode in [Mode Setting]



4 Select [Mode2]



- Press and hold [OK]/[MUTE]/[2]* (numeric buttons) buttons for at least 3 seconds, then press the OK button.

  ∗ To set to [Mode1], set to "1", to set to [Mode3], set to "3", to set to [Mode4], set to "4".

- When using the remote control mode 1, set the TV and the remote control to mode 1 respectively.

■ Remote Control Mode Error

When the TV receives a signal with a different remote control mode to the mode that is set on the TV five times, Remote Control Mode Error is displayed.

- Follow the on-screen instructions.
- When all settings are initialised by performing [Shipping Condition], the TV's remote control mode is reset to mode 1. If you cannot operate the TV with your remote control, press and hold [OK]/[MUTE]/[1] buttons for at least 3 seconds to set the remote control to mode 1.

■ Remote Control Mode Reset

You can make a forced reset of the TV's remote control mode to change to mode 1.

1 Get another Panasonic remote control whose remote control mode has been set to 1

2 Point the remote control at the TV, then press the MUTE button for about 15 seconds

3 When a screen asking you to confirm the forced reset of the remote control mode is displayed, press the MUTE button again for about 3 seconds

Voice controls

The TV recognizes speech when you talk into the voice control microphone, enabling you to perform operations such as changing TV channels, adjusting the volume, searching for programmes, and doing internet searches.

- If the remote control is not registered (paired) with the TV, register (pair) the remote control. ➡ **(p. 17)**
- Google Assistant and Amazon Alexa functions may be currently under consideration for a future release in your region. They will be made available when they become ready for release.
- Google Assistant and Amazon Alexa functions may not be available in certain countries or regions or for certain broadcasters.
- The TV needs to be connected to the internet in order to perform searches, etc. ➡ **(p. 14)**
- The effective range for voice controls depends on the viewing environment.
- Operation may not be correct depending on the type of voice the person has and the way they speak, as well as the surrounding environment and conditions.
- When other Bluetooth® devices are connected at the same time, voice controls may not work properly depending on the connected devices.

Selecting the voice service (when it is not selected)

1 Press the voice control button



2 Selects the voice service for voice control function.

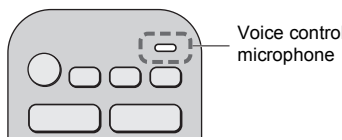
- Only one voice service can be used with the TV.
- The voice service selection screen can also be displayed via [Voice Control] on the menu bar.

Controlling with your voice

1 Press the voice control button



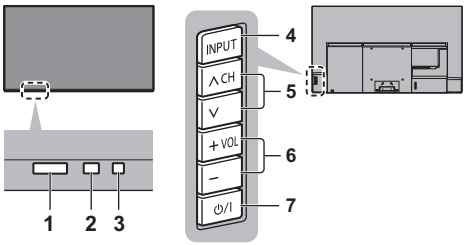
2 Speak into the voice control microphone



- For information about settings and operations for voice controls, refer to [eHELP] (Search by Purpose > Functions > Voice Control).
- Functions of voice control and voice services are subject to change without notice.

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 (for infrared communication)

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

2 Ambient sensor

- Senses ambient lighting conditions to adjust the picture when [Auto Brightness] and [Auto White Balance] (Picture > Ambient Sensor Settings) are set to [On].

3 Power LED

Red:

Standby

Green:

On

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

Orange:

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

- The LED blinks when an infrared signal is received from the remote control.

4 Input mode selection

- Press repeatedly until you reach the desired mode.

Menu

- Press and hold for about 3 seconds to display the menu bar.

OK (when in the menu system)

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.
- [⏻/|]: Standby / On

Panel maintenance

Be sure to turn the TV off with the remote control to perform the panel maintenance. The panel maintenance automatically starts, and it takes approx. 10 minutes. 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.)
- For information about panel maintenance, refer to [eHELP] (Search by Purpose > Watching > For best picture > Screen Settings).

First time Auto Setup

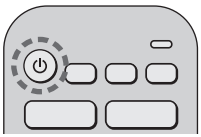
When the TV is turned on for the first time, it will automatically search for available TV channels and give options to set up the TV.

- 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 Setup. 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



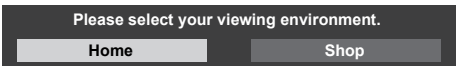
- Takes a few seconds to be displayed.



2 Select the following items

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

Example:



■ How to use the remote control



Move the cursor



Access the item / store the setting



Return to the previous item (if available)

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 Setup]

- [Satellite Antenna Setup]

  Ensure the satellite connections are completed (p. 14) and select the tuner mode ([Dual Tuner] / [Single Tuner]).

Select your region UK only

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

If tuning has failed check the Satellite cable, 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] (factory setting).
- 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] (factory setting).
- To retune all channels

  ➡ **[Auto Setup] 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

(TV)

or

(Remote Control)

- Mains power On / Off switch should be on.
  (p. 21)

2 Select the mode

TV

- Selectable modes vary depending on the stored channels and selected country.

3 Select a channel

up

down

or

1 2 3
4 5 6
7 8 9
0

- DVB and Satellite channel position begin from number 1 upward. Analogue channel position numbers are in the 0 - 99 range.

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.

- [eHELP] covers all models. Some features described in [eHELP], therefore, may not be available on certain models. Refer to this manual, the menus of the TV, etc. to check your model's actual features.

1 Display [eHELP]

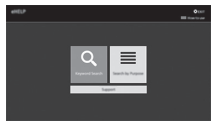
?
eHELP

or

MENU → **[Main Menu]** → **[Help]** → **[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



① select
② access

- To access [How to use]

(green)

3 Select the item

Example:



① select
② access

- To return to the previous screen / field

BACK

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 fuse in the mains plug may have blown. Replace it with one of an identical rating. ➡ **(p. 5)**

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. 19)**
- 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.*
- Is the remote control mode wrong? ➡ **(p. 19)**
- If you are trying to use voice controls, is the remote control registered (paired) with the TV? ➡ **(p. 17)**
- **If the solutions above do not fix the problem, deregister (unpair) the remote control, then register (pair) it again. ➡ "When the remote control does not respond" (p. 17)**

* When infrared communication is used

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.
- 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.

Voice control function does not work

- If the remote control is not registered (paired) with the TV, register (pair) the remote control. ➡ **(p. 17)**
- Check the network connections and settings.

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 the 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. 21)**

Check you can get Freeview HD in your area by visiting www.freeview.co.uk

To get the most up to date service from Freeview it is important for Freeview customers to retune from time to time.

How do I re-tune my Freeview TV?

This is a quick reference. If you have any problems, check the Operating Instructions or ask a friend or family member to show you how. Alternatively, go to your local electrical retailer, contact your local Panasonic dealer or visit **freeview.co.uk/retune**

Re-tuning only takes a few minutes, just follow the steps below:

1 Press the TV button to select DVB mode.
2 Press the MENU button to display the menu bar.
3 [Main Menu] ➡ [Setup] ➡ [DVB Tuning Menu] ➡ [Auto Setup]

Please note: most digital TV recorders will keep your original recordings after running a re-tune but you will need to reset any future recordings.

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 dirt.
(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: TX-55LZ1500B

65-inch model: TX-65LZ1500B

Dimensions (W × H × D)

55-inch model

1 227 mm × 771 mm × 350 mm (With Pedestal)

1 227 mm × 711 mm × 69 mm (TV only)

65-inch model

1 448 mm × 895 mm × 350 mm (With Pedestal)

1 448 mm × 835 mm × 69 mm (TV only)

Mass

55-inch model

20.5 kg Net (With Pedestal)

15.5 kg Net (TV only)

65-inch model

23.0 kg Net (With Pedestal)

18.0 kg Net (TV only)

Power source

AC 220-240 V, 50 / 60 Hz

Panel

OLED panel

Sound

Speaker output

50 W (15 W × 2 + 20 W × 1)

Headphones / Subwoofer

3.5 mm stereo mini jack × 1

Connection terminals

AV input

VIDEO

1.0 V[p-p] (75 Ω)

AUDIO L - R

0.5 V[rms]

HDMI 1 / 2 / 3 / 4 input

TYPE A Connectors

HDMI 1:

4K120Hz, VRR (Variable Refresh Rate), AMD FreeSync™ Premium, Content Type, Deep Colour, x.v.Colour™

HDMI 2:

4K120Hz, VRR (Variable Refresh Rate), AMD FreeSync™ Premium, Content Type, eARC (Enhanced Audio Return Channel) / ARC (Audio Return Channel), Deep Colour, x.v.Colour™

HDMI 3 / 4:

4K, Content Type, Deep Colour, x.v.Colour™

- This TV supports “HDAVI Control 5” function.

Card slot

Common Interface slot (complies with CI Plus) × 1

ETHERNET

RJ45, IEEE802.3 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 output

PCM / Dolby Audio, Fibre optic

Receiving systems / Band name

Satellite

DVB-S / S2

Receiver IF frequency range - 950 MHz to 2150 MHz

Not available for DiSEqC control

Digital

DVB-T / T2

Channel coverage: UHF / VHF / Cable

Analogue

UK

PAL I

Channel coverage: UHF

Ireland

PAL I

Channel coverage: UHF / VHF / Cable

PAL 525 / 60 (VCR, DVD player and recorder)

M.NTSC (VCR)

NTSC (AV input only)

Satellite dish input

Female F-type 75 Ω × 2

Aerial input

UK

UHF

Ireland

VHF / UHF

Operating conditions

Temperature

0 °C - 35 °C

Humidity

20 % - 80 % RH (non-condensing)

Built-in wireless LAN

Standard compliance and Frequency band

IEEE802.11a/n/ac: 5 GHz band

IEEE802.11b/g/n: 2.4 GHz band

Security

WPA3-SAE (AES)

WPA2-PSK (TKIP/AES)

WPA-PSK (TKIP/AES)

WEP (64 bit/128 bit)

Bluetooth® wireless technology*

Standard Compliance and Frequency band

Bluetooth® 5.0: 2.4 GHz band

* 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).
- For more product information, please visit EPREL: https://eprel.ec.europa.eu.

  EPREL registration number is available on https://eprel.panasonic.eu/product.

Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local authority.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



Note for the battery symbol (bottom symbol):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Sales and Support Information

Customer Communications Centre

- For customers within the UK: **0344 844 3899**
- For customers within Ireland: **01289 8333**
- Monday − Friday 9:00am − 5:00pm, (Excluding public holidays).
- For further support on your product, please visit our website: **www.panasonic.co.uk**

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday − Friday 9:00am − 5:00pm, (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at **www.pas-europe.com**.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

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 UK, a branch of Panasonic Marketing Europe GmbH
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT, United Kingdom
Web Site: http://www.panasonic.com

English

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