



Operating Instructions

LED TV

English

Model No.

TX-24G310B

TX-32G310B



(image: TX-32G310B)

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.

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Licence

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The illustration for TX-32G310B is used in this manual unless otherwise mentioned.

Illustrations shown may be different depending on the model.

Important Notice

Notice for DVB / Data broadcasting

This TV is designed to meet the standards (as of August, 2017) 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.

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

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

[Reinstall TV] in [General settings]

➡ (p. 27)

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

Additional information may be obtained from MPEG LA, LLC.

See <http://www.mpegla.com>.



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.

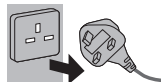
Safety Precautions

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 remove the mains plug.



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 5 amp fuse is fitted in this mains plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

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

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 Panasonic dealer.

Do not cut off the mains plug.

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

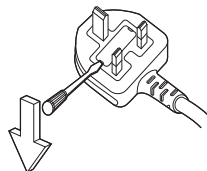
The supplied mains lead and moulded plug are designed to be used with this TV to avoid interference and for your safety.

If the mains socket outlet 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 authorized dealer.

How to replace the fuse.

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



- 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.

- Do not use any mains lead other than that provided with this TV.

■ Take care

Warning

- Do not remove covers and never modify the TV yourself as live parts are accessible 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 television set 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 television set.
- ALWAYS use furniture that can safely support the television set.
- ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
- ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
- NEVER place a television set in an unstable location.
- NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

If the existing television set 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

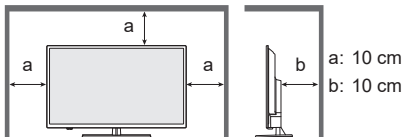
Warning

- 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.

■ 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.

■ 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

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.

- 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.

■ LED TV Declaration of Conformity (DoC)

"Hereby, Panasonic Marketing Europe GmbH declares that this TV is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU and Radio Equipment Regulations 2017."

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

<http://www.ptc.panasonic.eu/compliance-documents>

Authorized Representative:

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, D-22525 Hamburg, Germany

<http://www.panasonic.com>

Accessories

Standard accessories

Remote Control

➔ (p. 11)

- N2QAYB000816



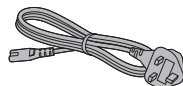
Pedestal

➔ (p. 7)



Mains lead

➔ (p. 9)



Batteries (2)

- R6

➔ (p. 12)



Operating Instructions

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

Installing the TV

Assembling / Removing the pedestal

Ⓐ Assembly screw



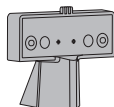
TP4 x 12 (3)

Ⓑ Assembly screw



TP4 x 12 (2)

Ⓒ Bracket



Ⓓ Base



Preparations

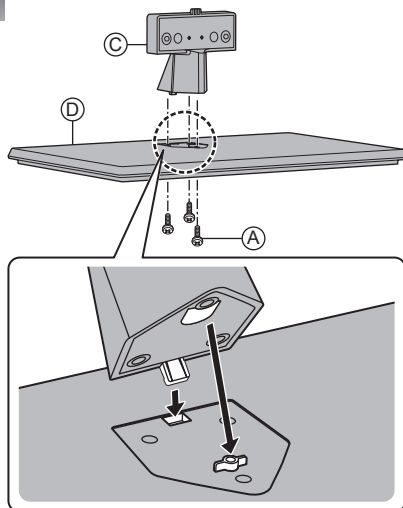
Take out the pedestal and the TV from the packing case and put the TV onto a work table with the screen panel down on the clean and soft cloth (blanket, etc.)

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

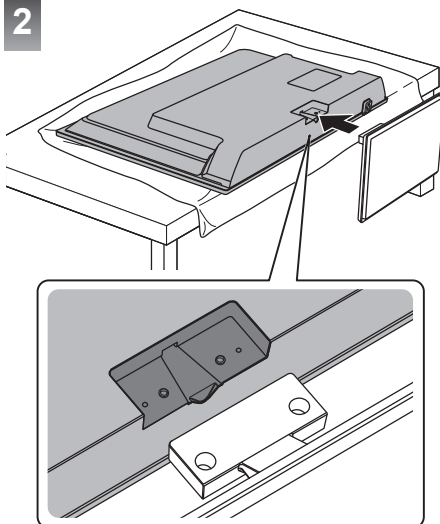
Assembling the pedestal

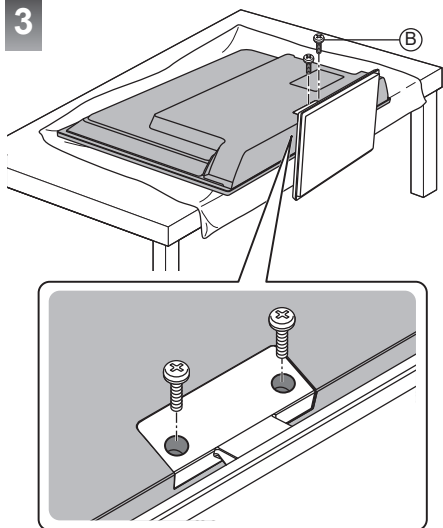
- Do not assemble the pedestal by any method other than those specified below.

1



2





Removing the pedestal

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

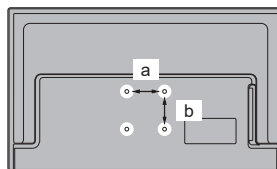
1. Put the TV onto a work table with the screen panel down on the clean and soft cloth.
2. Remove the assembly screws (B) from the TV.
3. Pull out the pedestal from the TV.
4. Remove the assembly screws (A) from the bracket.

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



(24-inch model)

a: 100 mm

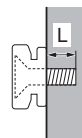
b: 200 mm

(32-inch model)

a: 100 mm

b: 100 mm

(View from the side)



		24-inch	32-inch
Depth of screw (L)	min. (mm)	8	8
	max. (mm)	10	10
Diameter		M4	M6

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

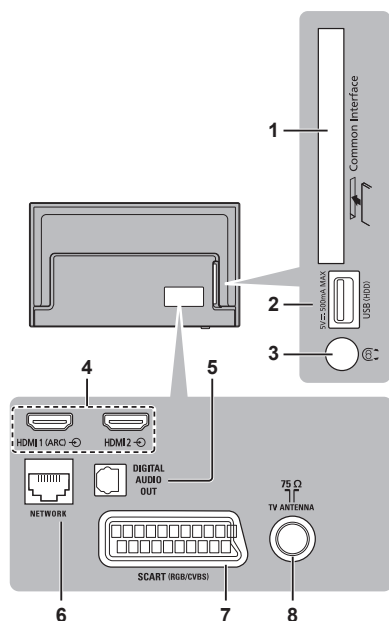
Warning

- 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.
- Please be advised for wall hanging functionality using VESA certified bracket (Vertical HDMI cannot be accessed).

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 CI slot ➔ (p. 11)

2 USB port

⎓ This symbol indicates DC operation

3 Headphone jack ➔ (p. 10)

4 HDMI1 - 2

5 DIGITAL AUDIO OUT

6 NETWORK ➔ (p. 10)

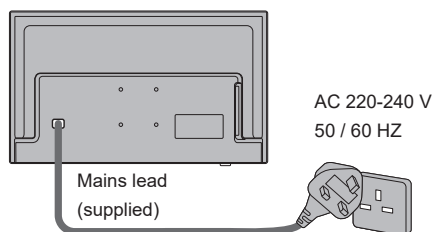
7 SCART (RGB / CVBS) ➔ (p. 10)

8 Terrestrial / cable terminal ➔ (p. 9)

- To watch content in 4K format, use HDMI terminal.
➔ (p. 10)

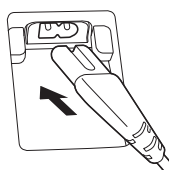
Basic connections

■ Mains lead

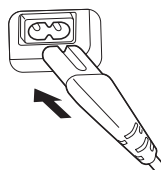


Insert the mains plug firmly into place.

24-inch model



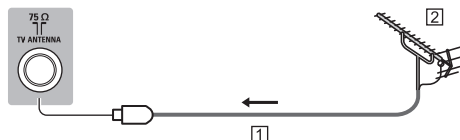
32-inch model



- When disconnecting the mains lead, be absolutely sure to disconnect the mains plug from the mains socket first.

■ Aerial

TV



① RF cable

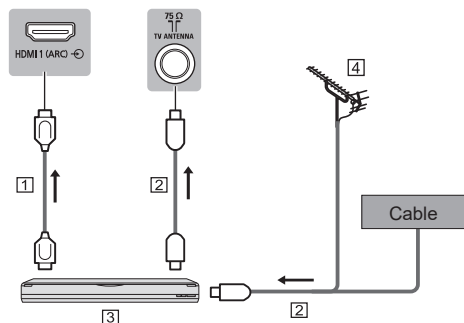
② Terrestrial aerial

- For DVB, Analogue

AV devices

■ DVD Recorder, etc.

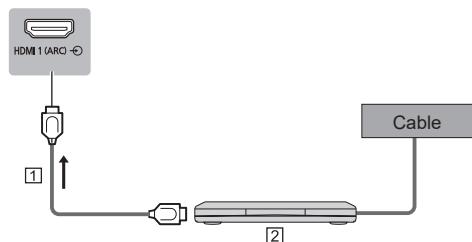
TV



- 1 HDMI cable
- 2 RF cable
- 3 DVD Recorder, etc.
- 4 Terrestrial aerial

■ Set top box

TV



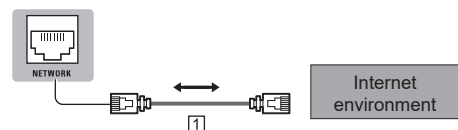
- 1 HDMI cable
- 2 Set top box

Network

■ Wired connection - Freeview

- Network port and function is for Freeview HD streaming features only.
- To connect the TV to the Internet, you need a network router with a connection to the Internet.
Use a high-speed (broadband) connection to the Internet.

TV



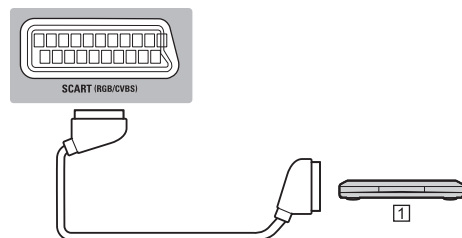
- 1 LAN cable

Other connections

■ DVD Player

(RGB/CVBS)

TV

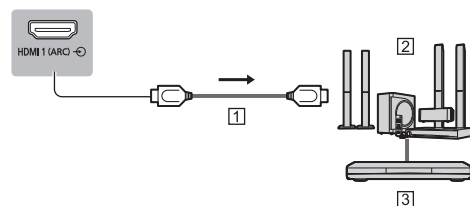


- 1 DVD Player

■ Amplifier (listening with external speakers)

- Use HDMI 1 to connect the TV to an amplifier which has ARC (Audio Return Channel) function.
If connecting to an amplifier without ARC function, use DIGITAL AUDIO.
- 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.

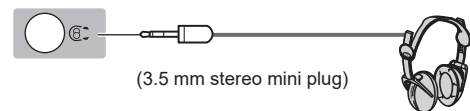
TV



- 1 HDMI cable
- 2 Amplifier with speaker system
- 3 External equipment (DVD Player, etc.)

■ Headphones

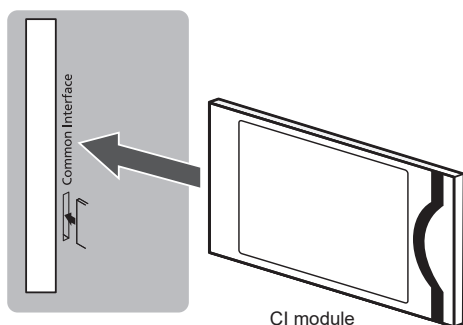
TV



■ Common Interface

- Unplug the power cord before 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.)
- There might be some CI modules in the market with older or newer firmware versions that do not work fully interoperable with this CI+ v1.3 TV. In this case, please contact your content provider.
- Be sure to remove the CI module card, etc. before repairing, transferring or discarding.

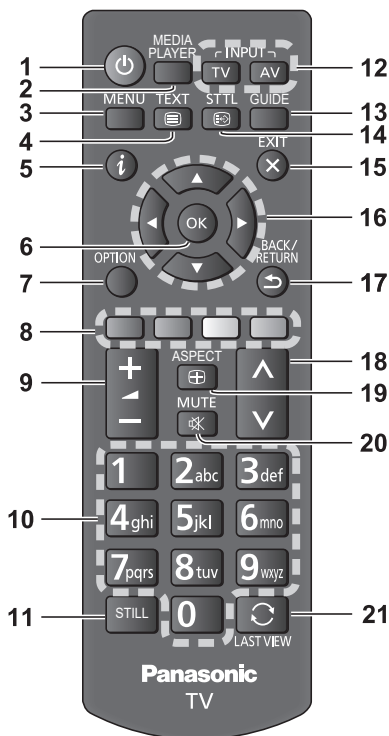
TV



CI module

Identifying Controls

Remote Control



1

- When LED lights on, switches TV on or standby.

2 **MEDIA PLAYER**

- Display files from USB.

3 **MENU**

- Press to access Channels, Sources, Utilities, and Settings.

4 **Teletext button**

- Press to open or close Text / Teletext.

5 **Information**

- Displays channel and programme information.

6 **OK**

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

7 **OPTION**

- Press to open or close the Options menu.

8 **Coloured buttons**

(red-green-yellow-blue)

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

9 Volume Up / Down

- Press to adjust the volume level.

10 Numeric buttons

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

11 STILL

- Freeze screen.

12 Input mode selection

- TV - switches to DVB-C / DVB-T / Analogue.
- AV - opens or closes the Sources menu - the list of connected devices.

13 TV Guide

- Displays Electronic Programme Guide.

14 Subtitles

- Displays subtitles.

15 Exit

- Returns to the normal viewing screen.

16 Cursor buttons

- Makes selections and adjustments.

17 Return

- Returns to the previous menu / page.

18 Channel Up / Down

- Switches to the next or previous channel.

19 Aspect ratio

- Changes picture format.

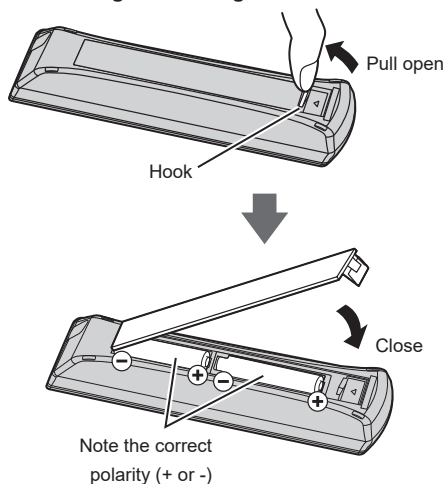
20 Sound Mute On / Off

- Press to mute the sound or to restore it.

21 Last view

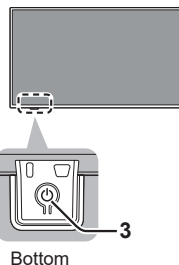
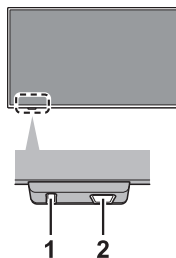
- Switches to previously viewed channel.

■ Installing / Removing batteries



Indicator / Control panel

Front



1 Power LED

Red:

Standby

Green:

On

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

Both LEDs off:

Power off

- Press the power key at the bottom of the TV to turn on.



2 Remote control signal receiver

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

3 Power key

- Use to switch the mains power on / off. Both LEDs off. To turn on the TV, press the button again.

Note

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

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. 11 - 13) 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.

■ How to use the remote control



Move the cursor



Access the item / store the setting

BACK/
RETURN



Return to the previous item (if available)

Select the language

Select your country

- Depending on the country you select, select your Region and/or store the PIN code number ("0000" cannot be stored).

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

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

Note

- To retune all channels
 [Re-install channels] in [Search for channels]
 ➔ (p. 19)
- To update the available TV signal mode later
 [Automatic channel update] in [Satellite installation] / [Antenna/cable installation]
 ➔ (p. 19)
- To initialise all settings
 [Factory settings] in [General settings]

Watching TV

1 Turn power on

TV can be turned on based on the power status.

- Red LED: Use remote control to turn on the TV.



(TV)

- Both LEDs off: Use the power key at the bottom of the TV to turn on.



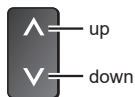
(Remote Control)

- For LED status, refer to ➡ (p. 12)

2 Select the source



3 Select a channel



or



- To select a channel position with digit numbers, e.g. 399

How to Use Menu Functions

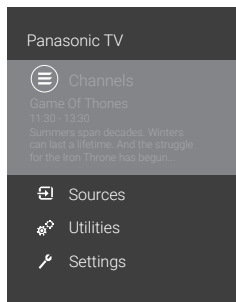
1 Display the menu

MENU



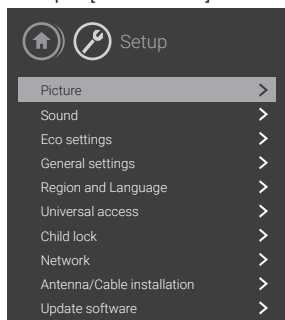
- Displays the functions that can be set (varies according to the input signal).

2 Select the menu

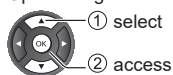


3 Select the item

Example: [Picture Menu]



Operation guide



- To exit the menu screen

EXIT

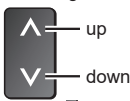


- To return to the previous screen

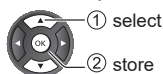
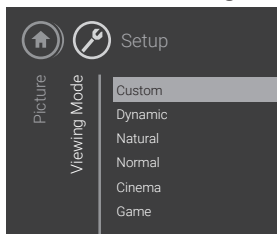
BACK/
RETURN



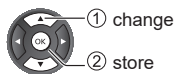
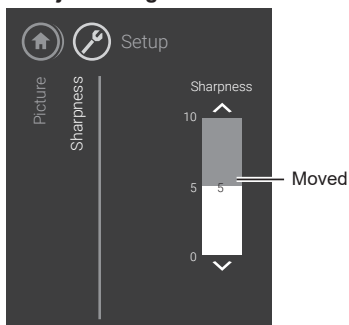
- To change menu pages



Choose from among alternatives



Adjust using the slide bar



Go to the next screen



■ Enter characters by free input menu

You can enter names or numbers freely for some items.



1 Set characters one by one



2 Store



- You can set characters by using numeric buttons.

■ To reset the settings

- Picture or sound settings only
 - ➔ **[Factory settings]** in **[General settings]** (**Settings Menu**)
- To initialise all settings
 - ➔ **[Reinstall TV]** in **[General settings]** (**Settings Menu**)

Menu Overview

Home menu

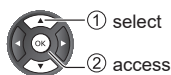
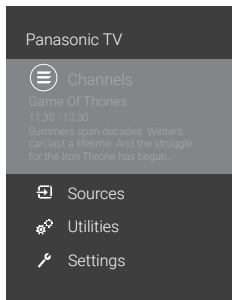
1 Display the menu

MENU



- Displays the functions that can be set (varies according to the input signal).

2 Select the item



■ Channels

Contents all channels.

- Press OK to open channel list.

■ Sources

Contents available sources.

■ Utilities

Contents available TV functions for user.

■ Settings

Contents available settings for user.

Utilities menu

■ TV guide

Open TV guide.

For details, refer to ➔ **page 24 “Using TV Guide”**.

■ Browse USB

Open files from USB.

For details, refer to ➔ **page 25 “Using Media Player”**.

■ Channels

Open channel list.

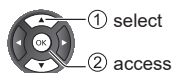
Changing Picture and Sound settings

Picture

1 Display the menu and select [Settings]



2 Select [Picture]



3 Select the item to adjust



Viewing Mode

You can select your favourite mode for each input.

■ [Custom]:

Adjusts each picture menu item manually to suit your favourite picture quality.

■ [Dynamic]:

Improves contrast and sharpness for viewing in a bright room.

■ [Natural]:

Improves natural picture quality.

■ [Normal]:

General use for viewing in a normal lighting condition.

■ [Cinema]:

Improves the performance of contrast, black and colour reproduction for watching movies in a darkened room.

■ [Game]:

Improves picture quality for playing games, etc.

Other picture settings

■ [Colour] / [Contrast] / [Sharpness] / [Brightness]:

Adjusts the levels of these options according to your personal preference.

Advanced picture settings

Selects advanced video settings.

■ [Computer]:

Sets to Computer to have the ideal picture settings for using your TV as a computer monitor.

■ [Colour]

[Colour enhancement]:

Sets the level of the colour intensity and the details in bright colours.

[Colour temperature]:

Sets the overall colour tone of the picture (bluer - redder).

[Custom colour temperature]:

Sets the overall colour tone manually.

■ [Contrast]:

[Contrast modes]:

Sets the TV automatically reduce the contrast, for best power consumption or for best picture experience.

[Dynamic contrast]:

Enhances the details in the dark, middle and light areas of the picture automatically.

[Video contrast]:

Adjusts the detailed white balance of bright red / green / blue areas.

[Gamma]:

Switches the gamma curve.

- Please note the numerical values are reference for the adjustment.

■ [Sharpness]:

[Super Resolution]:

Sets to have a superior sharpness in line edges and details.

■ [Picture Clean]:

[Noise reduction]:

Reduces unwanted picture noise.

[MPEG artefact reduction]:

Reduces flicker noise in contoured parts of a picture and block noise.

Adjust picture format and screen edges

Selects [Format and edges] in [Picture].

■ [Picture format]:

Selects the preset picture format to fills the screen.

■ [Screen edges]:

Sets to slightly enlarge the picture to hide distorted edges.

■ [Picture shift]:

- Picture shift setting will be saved when set to Computer.

- To reset the current [Viewing Mode] to the default settings
➔ **[Factory settings] in [General settings] (Settings Menu)**

Sound

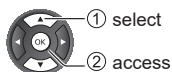
1 Display the menu and select [Settings]



2 Select [Sound]



3 Select the item to adjust



Sound Mode

You can select your favourite mode for each input.

■ [User]:

Adjusts the sounds manually to suit your favourite sound quality.

■ [Standard]:

Provides the suitable sound quality for all types of scenes.

■ [Cinema]:

Improves sound quality for watching movies.

■ [Music]:

Improves sound quality for watching music videos, etc.

■ [Game]:

Improves sound quality for playing games, etc.

■ [Speech]:

Improves sound quality for watching news, drama, etc.

Other sound settings

■ [Bass]:

Adjusts level to enhance or minimise lower, deeper sound output.

■ [Treble]:

Adjusts level to enhance or minimise sharper, higher sound output.

■ [Surround mode]:

Selects surround sound settings.

■ [Headphones volume]:

Adjusts the volume of headphones.

■ [TV placement]:

Selects the TV position.

■ Advanced sound settings

Selects advanced sound settings.

[Auto volume levelling]:

Automatically regulates large sound level differences between channels and inputs.

[Delta volume]:

Adjust the delta value for TV speaker volume.

Delta volume is available when the input source is set to HDMI or Analogue sources and the Audio out is set to TV speakers or HDMI sound system.

[Audio out]:

Selects the sound output to adjust volume.

[Clear Sound]:

If the sound from TV speakers is unclear due to installation environment, On is recommended.

- This function is effective only for the sound from TV speakers.

[Digital out format]:

Selects the initial setting for audio tracks.

- Selectable options vary depending on the country you select.

[Digital out levelling]:

Adjusts the loudness level from device which is connected to digital audio output (SPDIF) or HDMI.

[Digital out delay]:

Adjusts the delay time of the sound output from DIGITAL AUDIO and HDMI 1 (ARC function) terminals if the sound does not synchronise the image.

[Digital out offset]:

If you cannot set a delay on the Home Theatre System, you can set the TV to sync the sound.

You can set an offset that compensates for the time necessary for the Home Theatre System to process the sound of the TV picture.

You can set the value in steps of 5ms. Maximum setting is 60ms.

- Only available when Digital out delay set to On

- To reset the current [Sound Mode] to the default settings

➔ **[Factory settings] in [General settings] (Settings Menu)**

Retuning from Setup Menu

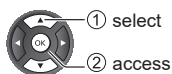
Automatically retunes the channels received in the area.

- This function is available if channel tuning is already performed.
- Only the selected mode is retuned. All the previous tuning settings are erased.
- Child Lock PIN number is required to retune locked channels.

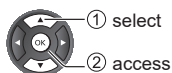
1 Display the menu and select [Settings]



2 Select [Antenna/cable installation]



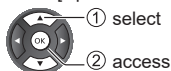
3 Select the item and press OK to access



Start the Installation

■ Update Channels

- 1 Select [Update channels].



You can always start a channel update manually, new channels will be added, and unavailable channels will be removed.

Automatically Search for Channels

- 1 Select [Automatic channel update].

- If you receive digital channels, you can set the TV to automatically update the list with new channels.
- New channels are stored in the All channels list and New channels list. Empty channels are removed.
- If new channels are found or if channels are updated or removed, a message is shown at TV start up. The TV must be in standby to automatically update channels.

Channel Update Messages

When new channels are found or if channels are updated or removed, a message is shown at TV start up. To avoid this message to appear after every channel update, you can switch it off.

DVB-C, DVB-T, Analogue

Re-install Channels

- 1 Select [Antenna/cable installation] > [Search for channels].
- 2 Select [Re-install channels].
- 3 Select the country and press OK.
- 4 Select [Antenna (DVB-T)] or [Cable (DVB-C)], and select one item you need to re-install.
- 5 Select [Digital and analogue channels], [Only digital channels], or [Only analogue channels].
- 6 Select [Start] and press OK to update channels. This can take a few minutes..

Reception test

The digital frequency is shown for the channel. If the reception is poor, check and reposition your antenna. Check the signal quality, select [Search].

If you use DVB-C to receive channels, the option [Symbol rate mode] is available. For Symbol rate mode, select [Automatic], unless your cable provider gave you a specific symbol rate value. To enter the specific symbol rate value, select [Symbol rate], and type in the value.

Manual Installation

Manually install analogue TV channel if needed.

- 1 Select [Antenna/cable installation] > [Analogue: Manual Installation].

■ System

Set up the TV system and select the country.

■ Search Channel

Enter a frequency to find a channel. The found channel is shown and if the reception is poor, press [Search] again. Select [Done] and press OK to store the channel.

■ Fine tune

Select [Fine tune] to fine tune a channel.

■ Store

You can store the channel on the current channel number or as a new channel number.

Select [Store] and press OK. The new channel number is shown briefly.

Channel Options

While watching a programme, you can set some options.

1 Select the mode



2 Open options



■ Subtitles

To switch [Subtitles on] or [Subtitles off]. Alternatively you can select [Automatic].

If language information is part of the digital broadcast and the broadcasted programme is not in your language (the language set on TV), the TV can show subtitles automatically in one of your preferred subtitle languages. One of these subtitle languages must also be part of the broadcast.

You can select your preferred subtitle languages in [Subtitle language].

■ Subtitles Language

Set the subtitles language. If none of the preferred subtitle languages are available, you can select another subtitle language if available.

■ Audio Language

Set the audio language. If none of the preferred audio languages are available, you can select another audio language if available.

■ Dual I-II

If an audio signal contains two audio languages but one language or both has no language indication, this option is available.

■ Common Interface

If prepaid premium content is available from a CAM, you can set the provider settings with this option.

■ Mono / Stereo

To switch the sound of an analogue channel to Mono or Stereo.

■ Status

To view the technical information on the channel.

■ Clock

To display time on the corner of the TV screen.

Channels List

You can create your favourite channel lists, skip unwanted channels, etc.

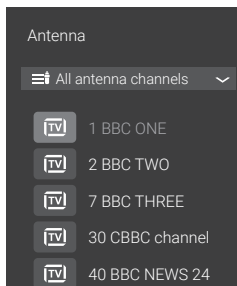
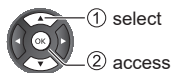
1 Select the mode



2 Select [Channels]



3 Open [Channel list]

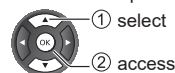


Channel List Option

1 Display option menu.



2 Select one of options



Rename Channel

1 Select a channel to edit

2 Display option menu and select [Rename channel]



3 In the typing field, press OK to open on-screen keyboard

- 4 Use navigation keys to select a character, then press OK



- 5 Select [Done] when complete the editing
- Follow the on-screen instructions

Create or Edit Favourites Channel List

■ Create Favourites Channel List

Create your favourite channel lists from various broadcasters (up to 4: [Favourite]1 to 4).

- 1 Display option menu



- 2 Select [Create favourites list]



- 3 Select a channel and press OK to add in a favourites list.



- 4 Store when complete the editing.

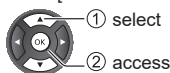


■ Edit Favourites Channel List

- 1 Display option menu



- 2 Select [Edit favourites]



- 3 Select a channel and press OK to add in or remove from a favourites channel list.



- 4 Store when complete the editing



Select Channel Range


Select a range of channels in a favourites channel list. Press OK when completed.

Select Channel List

Select one channel list you want to watch and press OK.

Lock / Unlock channel

To prevent children from watching a channel, you can lock a channel. To watch a locked channel, you must enter the 4 digit Child Lock PIN code first. You cannot lock programmes from connected devices.

The locked channel will have  next to the channel logo.

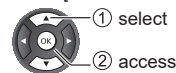
Search channel

Search for a channel to find it in a long list of channels.

- 1 Display option menu



- 2 Select [Search channel]



- 3 In the typing field, press OK to open on-screen keyboard

- 4 Use navigation keys to select a character



- 5 Select [Done] when complete the editing.

Child Lock

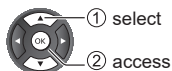
You can lock specific channels to restrict access to them.

When the locked channel is selected, a message appears. Enter the PIN number to watch.

1 Display the menu and select [Settings]



2 Select [Child lock]

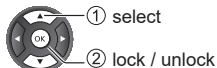


1 Enter the PIN number (4 digits)



- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.

2 Select the channel to be locked

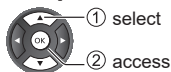


: Appears when the channel / input is locked

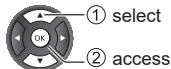
Parental rating

To watch the DVB programme that has rating information on the selected age, enter the PIN number (depending on the broadcaster).

1 Select [Parental Rating]



2 Select an age for the restriction of programmes



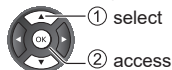
- The availability of this function depends on the country you select

Change code

Change code

You can change the PIN number.

1 Select [Change code]



2 Enter a new PIN number (4 digits) twice with Numeric buttons.

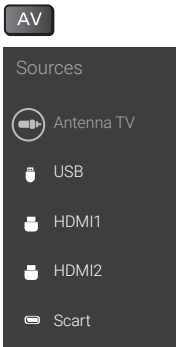


Watching External Inputs

Connect the external equipment (VCR, DVD, etc.) and you can watch through the input.

- For details, refer to ➔ **page 9** “Connections”.

1 Display the input selection menu



2 Select the input mode connected to the equipment



- You can also select the input pressing the AV button. Press repeatedly until the desired input is selected.

Viewing Teletext

Teletext services are the text information provided by the broadcaster.

The features may vary depending on the broadcaster.

Viewing Teletext

1 Switch to Teletext

TEXT

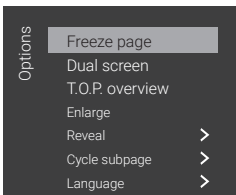


- Displays the index page (content varies depending on the broadcaster).

2 Select the page



■ To select function

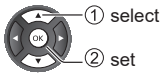


1 Display the option menu

OPTION



2 Select [Search by genre]



■ To return to TV

EXIT



Using TV Guide

TV Guide - Electronic Programme Guide (EPG) provides an on-screen listing of the programmes currently broadcast and the forthcoming broadcasts over the next seven days (depending on the broadcaster).

- When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before TV Guide is completely shown.
- Not valid in Analogue

1 Select TV



2 Display TV Guide

GUIDE



Example:



- 1 Time
- 2 Programme
- 3 Channel position and name
- 4 Date

■ To watch the programme

- 1 Select the current programme



■ To view programme details

- 1 Select the current programme



- 2 Display the programme details



■ To set reminder

With reminder, a message will alert you at the start of the programme.

- 1 Select the forthcoming programme



- 2 Set the reminder



: Appears with a reminder is set.

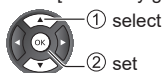
■ To search by genre

If the information is available (depending on the broadcaster), you can search the scheduled programmes by genre, like news, movies, sports, etc.

- 1 Display the option menu



- 2 Select [Search by genre]



■ To return to TV

EXIT



Using Media Player

Media Player allows you to enjoy photo, video or music stored on the USB Flash Memory / USB HDD.

Easy List View:

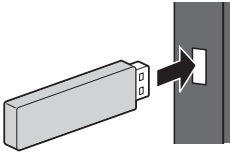
Still pictures / moving pictures stored with digital cameras are displayed.

Mix Folder View:

All files grouped by folder are displayed.

■ To insert or remove the USB Flash Memory

Ensure alignment is straight and complete when inserting or removing.



- Connect the USB Flash Memory to the USB port.
- Check the terminal type and devices are correct for connection.

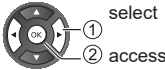
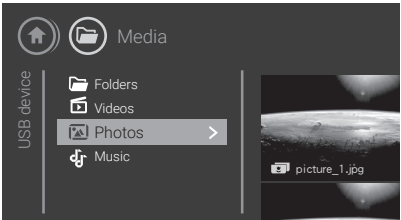
1 Insert the USB Flash Memory to the TV

- To play back content in the USB HDD device, ensure the connection and settings are completed.

2 Display multimedia



3 Select the content



Note

- Select the appropriate device and content for playing back each file.

■ Supported USB file System

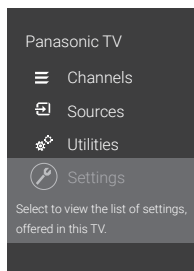
- USB (FAT / FAT 32 / NTFS): only connect USB devices that consume 500 mA of power or less.

■ Playback formats

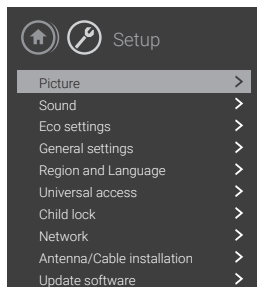
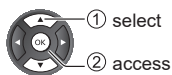
- Image Codec: JPEG, GIF, PNG, BMP
- Audio Codec: MP3, WAV, WMA (v2 up to v9.2), AC3, AAC, HE-AAC, DTS 2.0
- Video Codec: AVI, MKV, H.264/MPEG-4 AVC, MPEG1, MPEG2, MPEG4, WMV9/VC1
- Subtitle: SRT, SMI, SSA, SUB, ASS, TXT

Setup menu

1 Display the menu and select [Settings]



2 Select the item and press OK to access



- To return to the previous screen

BACK/
RETURN



Eco settings

■ [Energy saving]

Set energy saving level.

Select [Minimum], [Medium], or [Maximum] to have different degrees for energy saving, or select [Off] to switch off energy saving mode.

■ [Screen off]

Set screen off to save energy consumption.

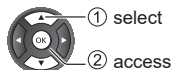
Select [Screen off], the TV screen is switched off, to switch the TV screen back on, press any key on the remote control.

- When TV is in screen off mode, the LED lights green and blinks every 2 seconds.

■ [Switch off timer]

Set TV switch off timer.

Press to adjust the value. The value 0 (Off) deactivates the automatic switch off.



Select Switch off timer, the TV switches off automatically to save energy.

- TV switches off if receiving a TV signal but you don't press a key on the remote control during a 4 hour period by default.
- TV switches off if not receiving a TV signal nor a remote control command for 10 minutes.
- If you use the TV as a monitor or use a digital receiver to watch TV (a Set-Top Box - STB) and you do not use the remote control of the TV, you should deactivate this automatic switch off, to set the value to 0.

General settings

Connection Related Settings

■ HDMI-CEC Connection

Connect HDMI CEC-compatible devices to your TV, you can operate them with the TV remote control. HDMI CEC must be switched on on the TV and the connected device.

- Switch on CEC
- Operate HDMI CEC-compatible devices with TV remote control

Note

- CEC might not work with devices from other brands.
- The HDMI CEC functionality has different names on different brands. Not all brands are fully compatible with CEC. Example HDMI CEC branding names are property of their respective owners.

■ [CAM Operator Profile]

To switch on operator profile for CI+/CAM for easy channel installation and updates.

■ [CAM Profile Name]

When CAM operator profile is set to enable, select to display the profile name of the connected CAM card.

Reset TV Settings and Reinstall TV

■ [Factory settings]

Reset all settings value to original TV settings.

■ [Reinstall TV]

Redo full TV installation and set TV status back to the first time you switch on.

Region and Language settings

Language

■ [Menu language]

Change the language of the TV menu and messages

■ [Primary audio language] / [Secondary audio language]

Set audio preference language.

Digital TV channels can broadcast audio with several spoken languages for a programme. You can set a preferred primary and secondary audio language. If audio in one of these languages is available, the TV will switch to this audio.

■ [Primary subtitle language] / [Secondary subtitle language]

Set subtitle preference language.

Digital channels can offer several subtitle languages for a programme. You can set a preferred primary and secondary subtitle language. If subtitles in one of these languages are available, the TV will show the subtitles you selected.

■ [Primary text] / [Secondary text]

Set teletext preference language.

Some digital TV broadcasters have several Text languages available.

Timer

■ Correct clock automatically

The time information comes from the broadcasted UTC - Coordinated Universal Time information.

[Auto clock mode]:

The standard setting for the TV clock is [Automatic]. If the clock is not correct, you can set the TV clock to [Country dependent].

[Daylight saving]:

Select the appropriate setting from [Daylight saving] when the clock mode is set to [Country dependent].

■ Correct clock manually

Set the time manually if none of the automatic settings display the time correctly.

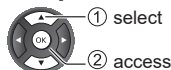
■ [Sleep timer]

Set the TV to switch to Standby automatically after a preset time. If the timer set to 0, the sleep timer is switched off.

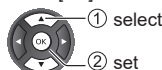
Universal Access Settings

This function can aid visually-impaired viewers by providing an additional audio track to describe events on screen.

1 Select [Universal Access] > [Universal Access]



2 Select [On] to activate



■ [Hearing impaired]

Some digital TV programmes broadcast special audio and subtitles adapted for the hard of hearing or deaf people.

■ [Audio description]

Set [On] to activate special audio commentary describing what is happening on screen.

[Mixed volume]:

Mix the volume of the normal audio with the audio commentary. Adjust the volume value.

[Audio effects]:

Set to [On] for extra audio effects in the commentary audio.

[Speech]

Set [Descriptive] or [Subtitles] for speech preference.

Network

■ [View network settings]

You can view all current network settings here. The IP and MAC address, signal strength, speed, encryption method, etc.

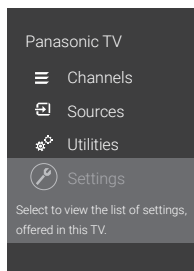
■ [Network configuration]

If you are an advanced user and want to install your network with Static IP addressing, set the TV to Static IP.

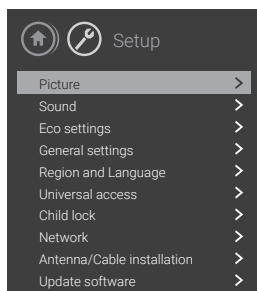
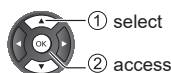
Select Static IP configuration and configure the connection. You can set the number for IP address, Netmask, Gateway, DNS.

Software

1 Display the menu and select [Settings]



2 Select [Update software]



Update Software

■ [Local Updates]

This is for dealers and expert users.

■ [Look for OAD updates]

Scan to search an Over-the-air software update.

- The availability of OAD updates is depends on your country.

Software Version

■ [Current software info]

View the current TV software version and information.

■ [View software update history]

View the software update history.

- The availability of viewing software update history is depends on your country with OAD.

Open Source Software

This TV contains open source software. Select [OSS] to view the open source.

FAQs

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

The TV does not switch on

- Check the mains lead is plugged into the TV and the mains socket.
- Check the LED light status. ➔ (p. 14)

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. 12)
- 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.
- Check the LED light status. If both LEDs off, use the power key at the bottom of the TV to turn on. ➔ (p. 14)

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 in [Input Selection] to match the signal being output by the external equipment.
- Is [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

- Turn the TV off with Mains power On / Off switch, then turn it on again.
- If the problem persists, initialise all settings.
➔ [Factory settings] in [General settings] (Setup Menu)

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.

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](http://www.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 open the main menu.
3. [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.

(24-inch model) TX-24G310B

(32-inch model) TX-32G310B

Dimensions (W × H × D)

(24-inch model)

556 mm × 393 mm × 176 mm (With Pedestal)

556 mm × 344 mm × 68 mm (TV only)

(32-inch model)

732 mm × 487 mm × 195 mm (With Pedestal)

732 mm × 438 mm × 77 mm (TV only)

Mass

(24-inch model)

3.36 kg Net (With Pedestal)

3.09 kg Net (TV only)

(32-inch model)

4.91 kg Net (With Pedestal)

4.41 kg Net (TV only)

Power source

AC 220-240 V, 50 / 60 Hz

Panel

LED LCD panel

Sound

Speaker output

(24-inch model)

6W (3W + 3W)

(32-inch model)

10W (5W + 5W)

Headphones

3.5 mm stereo mini jack × 1

Connection terminals

SCART (RGB/CVBS)

SCART adaptor

HDMI 1 / 2 input

TYPE A Connectors

HDMI 1:

Content Type, Audio Return Channel, Deep Colour, x.v.Colour™

HDMI 2:

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

Card slot

Common Interface slot (complies with CI Plus) × 1

USB

DC 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]

DIGITAL AUDIO output

PCM / Dolby Digital, Fibre optic

NETWORK

RJ45 (for Freeview)

Receiving systems / Band name

DVB-C

Digital cable services (MPEG2, MPEG4-AVC(H.264) and MPEG HEVC(H.265))

DVB-T / T2

Digital terrestrial services (MPEG2, MPEG4-AVC(H.264) and MPEG HEVC(H.265))

PAL B, G, H, I**SECAM B, G****SECAM L, L'**

VHF E2 - E12

VHF A - H (ITALY)

CATV (S01 - S05)

CATV S11 - S20 (U1 - U10)

VHF H1 - H2 (ITALY)

UHF E21 - E69

CATV S1 - S10 (M1 - M10)

CATV S21 - S41 (Hyperband)

PAL D, K**SECAM D, K**

VHF R1 - R2

VHF R3 - R5

VHF R6 - R12

UHF E21 - E69

PAL 525/60

Playback of NTSC tape from some PAL Video recorders (VCR)

M.NTSC

Playback from M.NTSC Video recorders (VCR)

Aerial input

VHF / UHF

Operating conditions

Temperature

0 °C - 35 °C

Humidity

20 % - 80 % RH (non-condensing)

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

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 municipality.

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

Willoughby Road, Bracknell, Berkshire, RG12 8FP

Web site: <http://www.panasonic.com>

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English



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