

Setting the menu

Various menus allow you to set the picture, sound and other functions.

- Some menus are grayed out depending on the input signal or condition. (e.g. **Zoom adjustments** will be grayed out if the aspect is not set to **ZOOM**.)

1. Display the menu.



2. Select the menu from menu bar.

Select the desired menu using Δ/∇ from menu bar and press $\triangleleft/\triangleright$.

3. Select the item and adjust.

Select the desired item using $\triangleleft/\triangleright$.

- You can also access to the desired menu using Δ/∇ .
 - Adjust the item: Using $\triangleleft/\triangleright$.
 - Set/change the item: Using Δ/∇


- Displays the functions that can be adjusted.
- Some functions will be disabled depending on the type of input signal.
- Some settings in Picture menu may also affect the menu screen when watching the 4K contents.
- Depending on the model, the initial setting value of **Picture mode** may differ between **Home** and **Store** even when selecting the same picture mode.

The setting value can be adjusted by pressing **MENU** and selecting **Picture**.

Setting the Picture

Basic settings

Some features are not available on all models. Available menu items are displayed on your TV screen.

Adjust the image or picture quality. 

Picture mode

(**Vivid** / **Standard** / **Professional photo** / **Home theater** / **THX Cinema** / **THX Bright Room** / **Cinema** / **Custom** / **Professional1** / **Professional2** / **Dolby Vision Vivid** / **Dolby Vision Bright** / **Dolby Vision Dark**)

Select from preset picture modes for optimal viewing. Mode is saved separately for each input.

Luminance level

Adjusts the panel's luminance (light intensity).

- Gray-out if Professional mode (isfccc) Lock is on.
-

Back light

Adjusts backlight's luminance (light intensity).

Contrast, Brightness, Color, Tint, Sharpness

Adjusts the color, brightness, etc. for each picture mode to suit your preference.

- Display range
 - **Contrast** / **Color** / **Sharpness**: 0 - 100
 - **Brightness** / **Tint**: -50 - +50
 - Gray-out conditions:
 - Professional mode (isfccc) Lock is on.
 - **1080p pixel by 4pixels** is set to **On**. (only for **Sharpness**)
-

Color temp.

Selects color temperature preference, from "cool" (bluish) to "warm" (reddish) or normal.

- Gray-out if Professional mode (isfccc) Lock is on.
-

Vivid color

(**On** / **Off**)

Enhances green and blue color reproduction, especially outdoor scenes.

- Gray-out if Professional mode (isfccc) Lock is on.
-

Color remaster

(**Max** / **Min** / **Off**)

Reproduces vivid images with the appropriate process for the panel color gamut and input signal.

- Gray-out conditions:
 - **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**.
 - **Picture mode** is set to **THX**.
-

Rec.2020 color remaster

(**On** / **Off**)

Reproduces vivid images with the appropriate process for Rec. 2020 signal.

- **Rec.2020 color remaster** is only available when Rec. 2020 signal is received.
 - Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

Adaptive backlight control

Adjusts backlight level to make dark areas of the picture appear more natural.

If the picture appears unnatural, try setting it **Off**.

C.A.T.S.

(**On** / **Off**)

Contrast Automatic Tracking System (C.A.T.S.) adjusts the screen brightness and contrast according to the room's ambient light conditions.

This ECO feature automatically dims the brightness of the screen when the room lighting is lowered. C.A.T.S. features a built-in delay when the lighting conditions change. The adjustment happens gradually.

If you prefer a consistent brightness, disable C.A.T.S. by:

Menu > **Picture** > scroll down to **C.A.T.S.** and turn it off.

Or

Menu > **Picture** > **Picture mode** then select viewing mode such as **Custom**.

- Gray-out if HDR video signal is received.
-

Video NR

(**Auto** / **High** / **Mid** / **Low** / **Off**)

Reduces noise, commonly called snow. Leave it off when receiving a strong signal.

- Gray-out conditions (The condition may differ depending on the model.):
 - **Game mode** is set to **On**.
 - **1080p pixel by 4pixels** is set to **On**.

- Pure direct menu is set to **On**.
-

MPEG remaster

(**Auto** / **Strong** / **Medium** / **Weak** / **Off**)

Reduces signal noise generated by input devices playing MPEG compressed videos, and provide clear contours.

- Gray-out conditions (The condition may differ depending on the model.):
 - **Game mode** is set to **On**.
 - **1080p pixel by 4pixels** is set to **On**.
 - Pure direct menu is set to **On**.
-

Resolution remaster

(**Auto** / **Strong** / **Medium** / **Weak** / **Off**)

Enhances the picture resolution to make the image clearer.

- Gray-out conditions:
 - Professional mode (isfcc) Lock is on.
 - **1080p pixel by 4pixels** is set to **On**.
-

Dynamic range remaster

(**On** / **Off**)

Reproduces bright areas of the image to be closer to the original luminance and contrast, and improves the picture impact.

- This menu is available only for full screen mode.
 - Gray-out conditions:
 - HDR video signal
-

Motion picture setting

(**Custom** / **Strong** / **Mid** / **Weak** / **Off**)

Improves motion picture quality by reducing motion blur. If **Motion picture setting** is set to **Custom**, these menus are enabled.

Blur reduction: Adjusts the smoothness of camera content to minimize blur.

Film smooth: Adjusts the smoothness of film content.

Black frame insertion: Makes the blurring image clearer for video content, etc.

- Not valid for photo content

Reset to defaults: Reset to default for **Custom** setting.

- Gray-out conditions:
 - Game mode
 - Photo content
 - **1080p pixel by 4pixels** is set to **On**.
 - Pure direct menu is set to **On**.
-

Clear motion

(**On / Off**)

Makes the moving pictures clearer by controlling the level of backlight.

- Gray-out conditions:
 - Photo content

HDR brightness setting

 **MENU** → **Menu > Picture > HDR brightness setting**

Dynamic HDR Effect

(**On / Off**)

Automatically adjusts the luminance according to an HDR video signal.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDR auto brightness

(**On / Off**)

Automatically adjusts the luminance according to a lighting condition.

HDR brightness enhancer

Adjusts the luminance when watching an HDR video in a bright environment.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

- Supporting HDR does not increase the peak brightness capabilities of the TV panel.
-

Pro settings

Some features are not available on all models. Available menu items are displayed on your TV screen.

Adjusts the picture mode in more detail.

Set **Picture mode** to **Custom/Professional photo/Cinema/Professional1/ Professional2/Dolby Vision Bright/Dolby Vision Dark** first.

 **MENU** → **Menu > Picture > Pro settings**

Contrast A.I.

(**Custom / Auto / Off**)

Automatically controls contrast according to the images. **Auto** is Panasonic setting.

Contrast A.I. setting

Adjusts the detail of contrast control setting. If **Contrast A.I.** is set to **Custom**, this menu is enabled.

AGC:

(0-15)

Automatic Gamma Control. Increases automatically the brightness of a dark signal.

Black extension:

(0-15)

Adjusts the gradations in dark shades of the image.

Cool white effect:

(0-15)

Adjusts the white temperature point toward cool.

Reset to defaults:

Reset **Contrast A.I. setting** to factory defaults settings.

Color gamut

(**Auto / Normal / Native / Rec. 709 / SMPTE-C / EBU / Rec. 2020 / DCI-P3**)

Each color space is a matrix composed of red, green & blue colors. Select your preference.

Auto:

Automatically adjusts the color gamut according to the input signal.

Normal:

Displays colors according to the color gamut.

Native:

Displays deep colors by expanding the color gamut to its maximum.

Rec. 709:

Standard for HD (High definition)

SMPTE-C:

Standard for NTSC **EBU**:

Standard for PAL **Rec. 2020**:

Provides the suitable color gamut for Rec. 2020.

DCI-P3:

Provides the suitable color gamut for DCI 4K.

- Set **Color remaster** to **Off** to use this function.
- Set **Rec.2020 color remaster** to **Off** to use this function for the Rec. 2020 signal.
- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**

Photo Color Gamut

(**Auto** / **sRGB** / **Adobe** / **Rec. 2020**) **Auto**:

Automatically adjusts the color gamut according to the input signal. **sRGB**:

Standard for sRGB **Adobe**:

Standard for AdobeRGB **Rec. 2020**:

Provides the suitable color gamut for Rec. 2020.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**

WB detail adjustment

WB high R, G, B (+/-50)

Adjusts the white balance for light red/green/blue areas.

WB low R, G, B (+/-50)

Adjusts the white balance for dark red/green/blue areas.

More detail adjustment

Adjusts more detailed White Balance items.

Input signal level:

Adjusts the IRE picture level in relation to the gain of the red, green & blue colors.

Red, Green, Blue gain:

Adjusts the red/green/blue gain value of each Input signal level.

Reset to defaults:

Resets all **More detail adjustment** to factory defaults settings.

Reset to defaults

Resets **W/B detail adjustment** to factory defaults settings.

Color detail adjustment

Red, Green, Blue hue (+/-50)

Adjusts the red/green/blue hue between light, pastel and vivid.

Red, Green, Blue saturation (+/-50)

Adjusts the difference of the red/green/blue color against its own brightness.

Red, Green, Blue luminance (+/-50)

Adjusts the luminance of red/green/blue areas.

More detail adjustment

Adjusts more detailed Color management items.

Cyan, Magenta, Yellow hue (+/-50):

Adjusts the yellow/cyan/magenta hue between light, pastel and vivid.

Cyan, Magenta, Yellow saturation (+/-50):

Adjusts the difference of the yellow/cyan/magenta color against its own brightness.

Cyan, Magenta, Yellow luminance (+/-50):

Adjusts the luminance of red/green/blue/yellow/cyan/magenta areas.

Reset to defaults:

Resets all **More detail adjustment** to factory defaults settings.

Reset to defaults

Resets **Color detail adjustment** to factory defaults settings.

Gamma detail adjustment

Gamma

Gamma correction. Adjusts the intermediate brightness of the image.

More detail adjustment



Adjusts more detailed Gamma items.

Input signal level:

Adjusts the IRE picture level in relation to the gain of the red, green & blue colors.

Gain:

Adjusts the gain value of each Input signal level.

Reset to defaults:

Resets all **More detail adjustment** to factory defaults settings.

Reset to defaults

Resets **Gamma detail adjustment** to factory defaults settings.

Reset to defaults

Resets all **Pro settings** adjustments to factory default settings.

Advanced picture

Some features are not available on all models. Available menu items are displayed on your TV screen.

 **MENU** → **Menu > Picture > Advanced picture**

Game mode

(**On / Off**)

Optimizes the TV image for fast response signal when playing video games.

- Not available in TV mode.
-

3:2 pulldown

(**Auto / On / Off**)

Reduces judder in film-based content by transforming 24 fps to 30 fps (non- HDMI).

- Available for interlaced content (480i or 1080i) via analog source.
 - Gray-out if **Game mode** is set to **On**.
-

1080p pure direct

(**On / Off**)

Enables the support of a 4:4:4 digital video format signal. Use only with a 4:4:4 capable source.

- This function is available only for HDMI 1080p input.

- Gray-out conditions:
 - **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**.
 - **1080p pixel by 4pixels** is set to **On**.
-

4K pure direct

(On / Off)

Enables the support of a 4K 4:4:4 digital video format signal. Use only with a 4K 4:4:4 capable source.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

1080p pixel by 4pixels

(On / Off)

Displays like pixel by pixel on FHD resolution display for 1080p signal.

- Not all image may be displayed as dot by dot precisely.
 - Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDMI content type

(Graphics / Photos / Auto / Off) **Graphics**:

Best setting for On-Screen display of connected equipment.

Photos:

Best setting for JPEG viewing.

Auto:

Switches content type automatically depending on the HDMI signal information.

Auto detail setting

Set the availability of each content type for **Auto** mode.

- Not valid when **Picture mode** is set to **Professional photo**, **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDMI EOTF type

(Auto / Traditional gamma / HLG / PQ)

Changes the EOTF type for HDMI input mode. Set to **Auto** for general use.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDMI colorimetry type

(**Auto** / **Rec. 601** / **Rec. 709** / **Rec. 2020**)

Changes the colorimetry type for HDMI input mode. Set to **Auto** for general use.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDMI/DVI RGB range

(**Auto** / **Nonstandard** / **Standard (16-235)**)

Prevents the blown out highlights and blocked up shadows when a widerange signal is received. Selects between standard RGB range (16-235 bits) or non compliance (0-255 bits).

Auto:

Switches the RGB range (**Nonstandard/Standard (16-235)**) depending on the HDMI signal information.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

HDMI YCbCr range

(**Nonstandard** / **Standard (16-235)**)

Selects between standard YCbCr range (16-235) or non-compliance (0-255).

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

Black level

(**Light** / **Dark**)

Select **Dark** when details are washed out in dark areas of picture.

EOTF type

(**Auto** / **Traditional gamma** / **HLG** / **PQ**)

Selects the EOTF type for video content. Set to **Auto** for general use.

- Not valid when **Picture mode** is set to **Dolby Vision Vivid**, **Dolby Vision Bright** or **Dolby Vision Dark**
-

3D Y/C filter

(On / Off)

Minimizes rough edges (dot crawl) in the picture from a composite source.

Screen settings

Some features are not available on all models. Available menu items are displayed on your TV screen.



Screen format

SD signal/HD signal:

Full / JUST / 4:3 / ZOOM / H-FILL 4K format:

Full / V Full

Changes the format (aspect ratio). Lets you choose the aspect depending on the format of received signal.

Overscan

(On / Off)

Selects the screen area displaying the image for FULL aspect.

On:

Enlarges the image to hide the edge of the image.

Off:

Displays the image in the original size.

Set to **On** if noise is generated on the edge of the screen.

- Gray-out conditions:
 - 4K content
 - Photo content
 - **Game mode** is set to **On**.
 - Pure direct menu is set to **On**.

H size

Adjusts the horizontal display range to reduce noise of both side edges of an image.

- Gray-out conditions:

Zoom adjustments

Adjusts vertical position and size when FORMAT setting is set to **JUST** or

ZOOM.

JUST:

V-size max is 3

ZOOM:

V-size max is 15

- Gray-out if input signal is 4K.
-

Screen display

(**On / Off**)

Turns the screen off when you select.

- The sound is active even if the screen turns off.
 - Press any buttons to turn the screen on.
 - This feature is effective in reducing power consumption when listening to the sounds without watching the TV screen.
-

Pixel orbiter

(**On / Off**)

Sets the pixel shifting of the image to prevent panel “image retention”.

Logo Luminance Control

(**Max / Mid / Min**)

Adjusts the luminance level of the displayed logo to prevent panel “image retention”.

Panel maintenance

Turns the screen off and perform the maintenance to prevent the panel “image retention”.

- It takes approx. 80 minutes to finish the maintenance.
 - LED turns to orange during adjustment of the panel.
 - To cancel the maintenance, turn the TV on while the maintenance is in progress.
 - A white horizontal line appears on the screen for a while to adjust the panel. This is not a malfunction.
 - Completion message will be displayed when turning the TV on after panel maintenance.
-

Panel maintenance message

(On / Off)

Enables to display the regular panel maintenance notification.

On:

The message automatically displays for maintenance when the TV is turned off after watching for a certain period of time.

Off:

The message does not display. Select **Panel maintenance** and perform the panel maintenance manually. (see above)

Other settings

Some features are not available on all models. Available menu items are displayed on your TV screen.

Lock settings

Locks the picture menu for **Professional1/Professional2** and each input.

Settings are basic picture settings and Pro settings.

Copy adjustments

You can copy the selected **Cinema, Custom, Professional1, Professional2, Dolby Vision Bright** or **Dolby Vision Dark** settings and apply them to all or another input.

Settings are basic picture settings and Pro settings.

Reset to defaults

Resets all picture adjustments to factory default settings except for the advanced settings.

Setting the Sound

Basic settings

Some features are not available on all models. Available menu items are displayed on your TV screen.

Adjusts audio quality.

 **MENU** → **Menu > Sound**

Sound mode

(**Standard** / **Music** / **Speech** / **Stadium** / **User**) Selects your favorite sound mode.

- The selected mode affects all input signals.

Standard:

Provides the suitable sound quality for all types of scenes.

Music:

Improves sound quality for watching music videos, etc.

Speech:

Improves sound quality for watching news, drama, etc.

Stadium:

Improves sound quality for watching sports, etc.

User:

Adjusts the sounds manually by using the equalizer to suit your favorite sound quality.

- For the **User** mode, **Equalizer** will appear on the Sound Menu instead of **Bass** and **Treble**. Select **Equalizer** and adjust the frequency.

- Gray-out when using the Home Theater.
-

Bass

Increases or decreases the bass response.

- Gray-out if **Sound mode** is set to **User**.
 - Gray-out when using Home Theater.
-

Treble

Increases or decreases the treble response.

- Gray-out if **Sound mode** is set to **User**.
 - Gray-out when using Home Theater.
-

Equalizer

(**150Hz** / **250Hz** / **500Hz** / **1kHz** / **2kHz** / **4kHz** / **8kHz** / **12kHz** / **Reset to defaults**)

Adjusts the frequency level to suit your favorite sound quality.

- This function is available when **Sound mode** is set to **User**.
- Select the frequency and change the frequency level by using the cursor button.
- To enhance the bass sound, raise the level of the lower frequency. To enhance the treble sound, raise the level of the higher frequency.



- To reset the levels of each frequency to the default settings, select **Reset to defaults** by using the cursor button, and then press the OK button.
 - Gray-out when using Home Theater.
-

Balance

Adjusts the volume level of speakers.

L/R:

Adjusts the volume level of Front Left, Upward-firing Left speakers and Front Right, Upward-firing Right speakers.

Center:

Adjusts the volume level of center speaker and other speakers.

Up/Down:

Adjusts the volume level of Upward-firing speakers and others.

Reset to Defaults:

Resets Balance to the default settings.

- Gray-out when using Home Theater.
-

Dolby Atmos

(**On** / **Off**)

Provides the precise sound of Dolby Atmos when playing Dolby Atmos content. Set to **On** for general use.

Sound Field Creation

(**Standard** / **Studio** / **Theater** / **Stadium** / **Direct Through**) Selects your favorite sound field setting.

Advanced settings

Some features are not available on all models. Available menu items are displayed on your TV screen.

 **MENU** → **Menu > Sound**

Surround

(**Dolby surround** / **Cinema surround Pro** / **Cinema surround** / **Stadium surround** / **Off**)

Selects surround sound settings.

- Gray-out when using Home Theater.

- Not valid for Dolby Atmos content
-

Bass boost

(On / Off)

Enhances bass sound and provides powerful sound.

- Gray-out when using Home Theater.
-

TV speakers setting

(TV speakers / Headphone / Off)

Selects the sound output to adjust the volume.

- Sound from TV speaker turns off when **Headphone** or **Off** is selected.
-

TV speakers

(On / Off)

Enables the TV's built-in speakers.

Switch to **Off** when using external speakers.

Speaker output

(TV / Home theater)

Select the Home theater or TV speakers for audio output.

TV:

The TV speakers are on.

Home theater:

Selecting **Home theater** turns the equipment on automatically if it is in Standby mode.

- The sound of TV speakers is mute. When the equipment is turned off, TV speakers will be activated.
 - You can use **VOL(+/-)** and **MUTE**.
 - This function is available when the theater speakers supporting VIERA Link function is connected to this TV.
-

A.I. sound

(On / Off)

Equalizes overall volume levels across all channels and external inputs.

- Gray-out when using Home Theater.
-

Volume leveler

Minimizes volume disparity after switching to external inputs.

- Gray-out when using Home Theater.
-

Clear sound adjustment

(On / Off)

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

- Gray-out when using Home Theater.
-

Dialogue enhancement

(On / Off)

Enhances the intelligibility of dialogue and commentary.

Space Tune Setting

Adjusts the sound quality automatically according to the installation location or room condition.

Space Tune

(On / Off)

Enables the sound setting which has been adjusted by Space Tune Adjustment.

Space Tune Adjustment

Adjusts the sound setting with the Space Tune function.

Preferred audio type

(Main Audio / Hearing Impaired / Visually Impaired)

Allows setting of the accessible audio format when its broadcast and the language setting matches.

Digital audio out selection

(Auto / PCM / Dolby Audio)

Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT and HDMI 2 (ARC function) terminals.

Auto:

Dolby Audio (Dolby Digital, Dolby Digital Plus, Dolby AC-4), Dolby Atmos and HE-AAC multi-channel are output as Dolby Digital Bitstream. MPEG is output as PCM.

- Dolby Atmos may be output as Dolby Atmos Bitstream, Dolby Digital Plus and Dolby AC-4 may be output as Dolby Digital Plus Bitstream from HDMI2 (ARC function) terminal depending on the connected equipment.

PCM:

Digital output signal is fixed to PCM.

Dolby Audio:

Dolby Audio (Dolby Digital, Dolby Digital Plus, Dolby AC-4), Dolby Atmos, HE-AAC and AAC are output as Dolby Digital Bitstream or Dolby Digital Plus Bitstream.

- Dolby Atmos may be output as Dolby Atmos Bitstream from HDMI2 (ARC function) terminal depending on the connected equipment.
- For TV mode, video content
- ARC (Audio Return Channel):

A function of digital audio output using HDMI cable.

HDMI audio format

(**Auto** / **Bitstream** / **PCM**)

Selects valid audio format when HDMI viewing.

Auto:

Dolby Audio is output as Dolby Audio Bitstream. Other digital audio output signals are output as PCM. When the sound is delivered from theater speakers, Dolby Audio is output with pass-through method.

Bitstream:

Dolby Audio is output as Dolby Audio Bitstream. Other digital audio output signals are output as PCM. When the sound is delivered from theater speakers, Dolby Audio is output with transcoding method.

PCM:

Digital audio signal is output as PCM.

HDMI input

(**Digital** / **Analog**)

The default setting is **Digital** for the HDMI connection. (Digital input signal)

Select audio input terminal when a DVI cable is connected along with an analog audio input signal.

Reset to defaults

Resets all Audio adjustments to factory default settings.

- Gray-out when using Home Theater.

Headphone terminal output setting

Some features are not available on all models. Available menu items are displayed on your TV screen.

1. Display the menu with **MENU**.
2. Select **Sound** and press OK to access.
3. Select one of the following items and press OK to access.

Headphone terminal output / Headphone volume / Sub Woofer adjustment

Headphone terminal output

(**Headphone** / **Sub Woofer**)

Selects the sound output from the headphone terminal.

Headphone:

The sound outputs for using headphones.

Sub Woofer:

The sound outputs for using sub woofer.

= Note =

- Normally set **Headphone terminal output** to **Headphone**.
- When **Headphone terminal output** is set to **Sub Woofer**, the headphones cannot be used properly because only the low-frequency sounds are output.
- The volume of the sub woofer can be also controlled when adjusting the volume of this unit with this TV's remote control.

Headphone volume

Adjusts the volume of headphones.

Sub Woofer adjustment

Adjusts the sound output of sub woofer.

Sub Woofer Volume:

Adjusts the volume of sub woofer.

- Confirm the actual sound volume from this TV and sub woofer and adjust the volume.

Cut Off Frequency:

Adjusts the cut-off frequency of sub woofer signal output.

- The frequency output to the sub woofer is less than the set cut-off frequency.
- The frequency can be adjusted from 100 Hz to 400 Hz.
- Confirm the actual sound volume from this TV and sub woofer and adjust the volume.

Reset to defaults:

Resets **Sub Woofer adjustment** to the default settings.

Voice guidance settings

Settings for using voice guidance.

 **MENU** → **Menu** > **Sound** > **Voice guidance settings**

Voice guidance

(On / Off) **On**:

Enables voice guidance of the basic features (Channel banner and input source).

Speed

(Fast / Normal / Slow)

Adjusts the readout speed of the voice guidance.

Volume

(High / Mid / Low)

Selects the volume for voice guidance.

Language

(English / Español / Français / 中文)

Selects the language for voice guidance.

User level

(Beginner / Expert)

Selects the level of complexity for voice guidance.

Web Browser

(On / Off)

Enables voice guidance on web page.

Setting the Network

Network settings

 **MENU** → **Menu > Network**

Network connection

Connects the TV to the home network. Searches for wireless network or establishes wired connection.

Follow the directions on the screen to complete the network settings.

Network status

Tests the connection between the TV to the local router and the Internet.

Displays Current settings and status screen. (Network type/Wireless settings/ MAC address/IP Address, etc.)

- Displayed items differ depending on the type of network connection.

TV name

Set your favorite name for this TV.

TV Remote App settings

Sets a network-based remote control.

TV Remote:

(On / Off)

Enables to control the TV from the network equipment (smartphone, etc.).

- Set to **On** to enable the settings below.

Wake on LAN / Wireless LAN:

(On / Off)

Turns on the TV via Ethernet using a wake-up message sent from a device within the home network.

Device to upload contents:

Selects device to upload contents from the network equipment (smartphone, etc.).

Delete All Pairings:

Delete the pairing information for all paired devices.

Network link

Settings for the media server.

Home Network Server:

(On / Off)

Enables to use this TV as DMS (Digital Media Server) for network devices (TV).

- Set to **On** to enable the settings below.

Registration type:

(Auto / Manual)

Selects the limitation of access to this TV for each device on the home network.

Auto: All the available devices on the home network are accessible. (maximum 16 equipment)

Manual: Sets the access limitation for each device in the Remote device List.

Remote device list: Lists the available device on the home network.

Smart Speaker Settings

Controls this TV such as selecting a channel, changing volume, etc. with the smart speaker function.

- Ensure the network connections and network settings are completed.



[Network services > Connect to network](#)

- For the operations, refer to the support information.



[Support / FAQ > Information > Detailed information](#)

Mirroring settings

You can set the items for mirroring function.

Easy Mirroring:

(On / Off) Enables starting the mirroring function from the other devices (smartphone, etc.) without operating the TV.

- To deactivate wireless, set **Easy Mirroring** to **Off** and confirm the network connection type is set to **Ethernet cable**.



[Network services > Network settings > Network connection / Network status](#)

- Not available when the TV is set to **TV as Access Point**.

Delete All Pairings:

Delete the pairing information for all paired devices.

VOD content refresh

(On / Off)

Selects whether to update the VOD content to the latest even when the TV is in Standby mode.

- Changing the default configuration may increase Annual Power Consumption.
- LED turns to orange while updating in Standby mode when **VOD content refresh** is set to **On**.

Control4 settings

Settings for Control4.

Control4 discovery:

(On / Off) Switch to Control4 mode.

- Set to **On** to enable **Send identify** menu.

Send identify: Send Identify message to Control4 controller.

- Please consult with local Control4 dealer for settings and operation.

Software update

Check if software (firmware) update for the TV is available.

Press OK to start the Software update screen. Follow directions on the screen.

- Set **Clock** first.

New software notice

(On / Off)

Selects whether or not to display a notification message when a software (firmware) update is available for download. Follow the directions on the screen to download.

Terms of Service and Settings

Displays the terms of service and settings.

Setting the Timer

Sleep (Off timer)

 **MENU** ➔ **Menu > Timer > SleepMenu**

Sleep

(90 minutes / 60 minutes / 30 minutes / 15 minutes / Off)

Selects how long the TV stays on before it automatically turns off.

Timer (On/Off timer)

 **MENU** ➔ Menu > Timer > Timer

Timer set

(On / Off) Enables or disables the Timer.

Inputs Sets which input will be selected when the TV turns on.

Channel Sets the channel to display when the TV turns on.

Day Sets the day when the TV turns on.

On time

Sets the time that the TV will turn on at. The TV will turn off after 90 minutes or as specified.

Off time Sets the time that the TV will turn off at within 24 hours.

Clock settings

 **MENU** ➔ Menu > Timer > Clock

Mode

(Auto / Manual) Sets the date and time manually or automatically via an Internet connection.

Date, Time Sets current date or time.

Time zone (EST / CST / MST / PST / AKST / HST / NST / AST) Selects your time zone, to enable correct automatic date and time settings.

DST (On / Off) Selects if Daylight Saving Time is currently observed.

Auto turn off settings

 **MENU** ➔ Menu > Timer

No activity for 4 hours

(Power TV off / Stay on)

To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 4 hours.

Not in use when “On/Off Timer” is set. “No activity for 4 hours was activated” will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by “No activity for 4 hours” feature. The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.

- Changing the default configuration may increase Annual Power Consumption.

No signal for 10 minutes

(Power TV off / Stay on)

To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION continue for more than 10 minutes.

Not in use when “On/Off Timer” is set. “No signal for 10 minutes was activated” will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by “No signal for 10 minutes” feature. The on-screen display will flash 3, 2 and 1 to indicate the last three

(3) remaining minutes prior to the shut-off.

Setup

Eco navigation

 **MENU** ➔ [Menu](#) > [Setup](#) > [Eco navigation](#)

Set to ECO

Sets the TV to the most suitable energy-saving mode automatically.

Optimizes the TV's various modes to save energy.

- The TV's brightness will adjust and adapt as the room lighting changes.

USB device setup

 **MENU** ➔ [Menu](#) > [Setup](#) > [USB device setup](#)

Remove USB device safely to prevent the damage of the data or device.

Bluetooth settings

Settings for the specific devices supporting Bluetooth wireless technology

 **MENU** ➔ [Menu](#) > [Setup](#) > [Bluetooth settings](#)

Bluetooth devices

Search and pair Bluetooth devices in range. Display the status of previously registered devices.

Bluetooth Audio Mode Setting

(Transmitter / Receiver)

Selects the TV's Bluetooth audio mode.

Transmitter:

Connects an audio device such as headphones, speaker, etc.

Receiver:

Connects an audio device such as a smartphone, audio player, etc.

Bluetooth audio settings

Adjusts the volume for an audio device, etc. in the transmitter mode.

Audio out

(All / Bluetooth only)

Selects audio out when the device is connected.

- To get sound from Speakers and Bluetooth device, select **All**.

Volume

Adjusts the volume of a Bluetooth audio device.

Audio Control

Sets to control a Panasonic Bluetooth audio device with this TV.

- Settings on a Panasonic Bluetooth audio device are also required to use this audio control function.

Parental control

 **MENU** → **Menu > Setup > Parental control**

Change password

Creates a new password. Input the new 4-digit password twice.

Show Adult App

(On / Off)

Set to **Off** to lock specific applications to restrict access to them (if available).

- For Internet content
-

Mode

(**Custom** / **All** / **Off**)

Locks (**All**) or Unlocks (**Off**) all channels, programs or inputs. For **Custom**, locks specified inputs of **Channel**, **Game** and **Program**.

Set **Custom** in **Mode** to specify **Channel**, **Game** and **Program** settings.

Channel

These channels will be blocked regardless of the program ratings.

Mode:

(**Custom** / **All** / **Off**)

Locks (**All**) or Unlocks (**Off**) all channels. For **Custom**, locks specified channels. Set **Channel 1** - **Channel 7**.

Channel 1-7:

Designates channel number to be blocked at any time, regardless of its broadcast content.

Game

(**On** / **Off**)

Restricts access to channel 3, channel 4 and all the TV's inputs.

Program

Prohibits viewing of TV content based on the rating provided by the broadcasters.

Mode

(**On** / **Off**)

Sets program lock status. "V-chip" technology enables restricted shows to lock according to TV ratings. Sets each rating level (MPAA, U.S.TV, C.E.L.R., C.F.L.R.).

MPAA:

Selects U.S. movie ratings to lock. **U.S.TV**:

U.S. TV program ratings.

C.E.L.R.:

Canadian English ratings. **C.F.L.R.**:

Canadian French ratings.

DRRT:

This television is designed to support the “Downloadable U.S. Region Rating System” when available. (Currently available only in U.S.)

ANTENNA/Cable setup

 **MENU** → [Menu](#) > [Setup](#) > [ANTENNA/Cable setup](#)

ANTENNA/Cable signal

([Cable](#) / [Antenna](#))

Selects signal source connected directly to the ANTENNA/Cable In terminal.

- When using a Cable or Satellite box, it is recommended to connect the box to an AV IN terminal and skip this setting.
-

Channel surf mode

([All](#) / [Favorite](#) / [Analog only](#) / [Digital only](#))

Sets the mode to select the channel with the Channel up/down button.

Favorite:

Only channels registered as FAVORITE.

Auto program

([All channels](#) / [Digital only](#) / [Analog only](#))

- Select scan type and press OK to start scanning automatically.

After the scanning is completed, select [Apply](#).

- All previously saved channels are erased.
-

Manual program

Changes the channel setting or channel display.

Edit

Edits these items.

Caption:

Changes the station identifier. (maximum 7 characters available) **Favorite:**

Registers channels to the Favorite List from [Set favorite](#).

Add:

Adds ([Yes](#)) or skips ([No](#)) channels

Apply

After the editing is completed, press OK to save the settings.

Cancel

Cancels the changes.

Signal meter

Check the signal strength if interference is found or freezing occurs on a digital image.

- If the signal is weak, check the antenna.
- If you cannot figure out the problem, consult your local dealer.
- Not available if **Cable** is selected in **ANTENNA/Cable signal**.
- Available only for digital antenna channels.

Language settings

 **MENU** → **Menu > Setup > Language**

Menus language

(**English / Español / Français / 中文**) Selects the screen menu language.

Preferred SAP language

(**English / Spanish / French**)

Selects the preferred language for hearing or visually impaired, if offered during digital broadcast

- Preferred language takes precedence over the preferred audio type. (Available only in the U.S.)
-

Display customization

 **MENU** → **Menu > Setup > Display customization**

Input labels

Selects the terminal and label of the external equipment. Devices connected to external input terminals can be labeled for easier identification during the input selection.

- When you label an input as **Not used**, then it will be hidden from the **Input select** menu.
 - Select **Customize** to enter your own labels for the input (e.g. "Computer").
-

Notification

(**On / Off**)

Enables to display Notification.

Dolby notification

(On / Off)

Displays a Dolby notification.

Closed Caption



MENU



Menu > Setup > Display customization > Closed Caption

Mode

(CC on mute / On / Off) **CC on mute:**

Displays Closed Captions when the audio is muted. (When not using, select **Off**.)

On:

Displays Closed Captions.

Analog

(**CC1-4** / **T1-4**)

Choose the Closed Caption service of Analog broadcasting.

CC1-4: Information related to pictures (Appears at the bottom of the screen)

T1-4: Textual information (Appears over the entire screen)

Digital

(**Primary** / **Second.** / **Service 3** / **Service 4** / **Service 5** / **Service 6**)

The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.

Digital setting

Sets display settings in digital programs.

Size: Selects the text size.

Font: Selects the text font.

Style: Selects the text style (Raised, Depressed, etc.).

Foreground: Selects the color of text.

Foreground opacity: Selects the opacity of text.

Background: Selects the color of text box.

Background opacity: Selects the opacity of text box.

Outline: Selects the outline color of text (Identifies the settings options on the screen).

Reset to defaults

Resets all Closed Caption settings to factory default settings.

VIERA Link settings



VIERA Link

(On / Off)

To use all VIERA Link functions, set to **On** after everything is connected.

Power on link

(Yes / No)

The TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and the Play mode is selected.

Power off link

(Yes / No)

When **Yes** is selected and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off. The TV remains on even if the VIERA Link compatible equipment is turned off.

Energy saving mode

(Save / Quick start) **Quick start:**

When TV is turned off, all connected VIERA Link compatible equipment is moved to ECO Standby mode* automatically under these conditions.

- **Power off link (Yes):** The connected equipment has “HDAVI Control 4 or later (with Quick Start mode)”

* :Minimum power consumption of Standby condition for the equipment.

Unselected device auto off

(On / Off)

The connected VIERA Link compatible equipment will be turned off automatically when not in use under these conditions. The connected equipment has “HDAVI Control 2 or later” (for available equipment only)

System settings

 **MENU** → [Menu](#) > [Setup](#) > [System](#)

Keyboard type

([U.S.](#) / [Canadian French](#) / [Canadian multilingual std.](#) / [Spanish\(Latin America\)](#) / [Spanish \(Spain\)](#))

Selects the country/region of the keyboard connected to this TV.

Factory defaults

Clears all TV settings and memory to factory defaults.

License

Displays the software license information.

Other settings

 **MENU** → [Menu](#) > [Setup](#) > [Other settings](#)

Power save

([Saving](#) / [Standard](#))

Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room.

Power LED Indicator

Selects the power LED indication mode.

Useful settings

 **MENU** → [Menu](#) > [Setup](#)

HDMI auto setting

([Mode1](#) / [Mode2](#))

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

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

Mode2: For the 4K compatible equipment that has the function to output the image precisely with the expanded color gamut.

- The setting can be stored for each HDMI input.

- Valid format (4K)
 - **Mode1:** 4:4:4 / 4:2:2 (30p, 25p, 24p), 4:2:0 (60p, 50p)
 - **Mode2:** 4:4:4 / 4:2:2 (30p, 25p, 24p), 4:4:4 / 4:2:2 / 4:2:0 (60p, 50p)
-

HDMI HDR setting HDR setting:

(**Dynamic** / **Static** / **Off**)

Set to **Dynamic** or **Static** when the HDR device is connected to the TV.

- Please turn **Off** this function if the image looks unnatural. This may occur in some cases such as compatibility with the connected device or source images.
 - Image may disappear for a few seconds when the setting is changed.
 - For HDMI
-

HDR dynamic setting

HDR10+ Functionality:

(**On** / **Off**)

Enables the HDR10+ function for HDMI input signal.

Dolby Vision:

(**On** / **Off**)

Enables the Dolby Vision function for HDMI input signal.

- Supporting HDR does not increase the peak brightness capabilities of the TV panel.
-

HDMI 2.1 Settings ALLM:

(**On** / **Off**)

Automatically switches the TV to Game Mode according to the ALLM information when using this TV in single window mode.

- For HDMI
 - Not valid when **HDMI auto setting** is set to **Mode1**
-

Support / FAQ

Help menu

Using Help menu

The TV's built-in self-help resources.




1. Display the menu.



2. Select **Help** from menu bar.

Select the desired menu using  /  from menu bar and press .

3. Select the Help menu.

Select the desired menu using  /  and press .

(**eHELP** / **TV Self-test** / **Version** / **Device information**)

eHELP: This screen

TV Self-test: Verifies proper function of the TV for picture and sound.

- Follow the instructions on the screen to complete the self test.

Version: Displays TV's software (firmware) version.

Device information: Displays the device information of this TV.

Picture - Viewing

■ Frequently Asked Questions

For updated information, please visit Panasonic web site.

How do I view the picture from devices such as: Cable/Satellite box, game console, Blu-ray or DVD player?

- Press the **INPUT** button on the remote to select the correct input source.
- Check that the device is turned on and functioning correctly.

Why doesn't the picture look like it is in High Definition?

- Press the **INFO** button on the remote to confirm the type of signal being received. HD signal should be 720p, 1080i or 1080p.
- Select a High Definition channel from your HD source (Cable, Satellite or fiber optic service). HD channels sometimes broadcast non-HD content.
- Ensure that your HD source (HD box, Blu-ray player, etc.) is connected to the TV with an HDMI or Component cable and set to output an HD video signal.

Picture - Snowy / none

Why is there no picture or just a blue, black or snowy screen being displayed?

- Press **MENU** and select **Help**. Then select **TV Self-test**. If the test picture displays correctly, then the problem is with the external device (e.g. Cable box, DVD player, etc.) or its connection to the TV.
- Check if the power cord is plugged in and the TV is turned on (front red LED light should be on; not blinking)
- Press the **INPUT** button on the remote to select the correct input source.
- Ensure all connections are correct and secure. Especially check for Component and VIDEO connection since these terminals are shared.
- When using an external video source, such as a Cable/Satellite box or DVD player, check that the device is on and functioning correctly.
- Press **MENU** on the TV's remote control. If the menu is displayed, then the TV is working; recheck above steps.

Why is the picture snowy when **ANTENNA/Cable setup** is selected?

- When using a cable service (without a box), check that all connections are secure.
- When using a cable or satellite box, change the connection (wiring) to Composite, Component or HDMI.
- If you're using an antenna, then check that connections are secure. Change the position or direction of the antenna and check the **Signal meter**.

 **MENU** → **Menu** > **Setup** > **ANTENNA/Cable setup** > **Signal meter**

Picture - Distortion

The picture is distorted after selecting the “AV” input. What should I do?

- Ensure that the device is connected correctly to the TV's Video/ Component green connector.
- If using VIDEO or COMPONENT:

Press **INPUT**, scroll to AV, press  /  to select **Video** or **Component**.

AV < **Video** Component >

Why do black bars appear on the top and bottom and/or sides of the screen?

- Change the format (aspect ratio) of the picture by pressing the **FORMAT** button on the remote control.

- Check the aspect settings on your external video source, such as Cable/ Satellite box, DVD/Blu-ray Disc player, etc.
- Some content, such as film-based movies, are available in extra-wide format. Top and bottom bars are unavoidable.

Why is the picture chaotic and/or torn and/or with a buzz in the speakers?

- Check if electrical products such as kitchen appliances, fluorescent lights or light dimmers are nearby. They may interfere with the TV's picture.
- Try viewing a picture from another device, such as a DVD player or a game console, to narrow down the source of the problem.

Picture - Unusual

Why the pictures from external equipment are unusual when the equipment is connected via HDMI?

- Check the HDMI cable is connected properly.

 → [Watching TV > Blu-ray, DVD, Game Console, etc. > Connecting and viewing](#)

- Turn the TV and equipment off, then turn them on again.
- Check an input signal from the equipment.

 → [Watching TV > Blu-ray, DVD, Game Console, etc. > Input signal](#)

- Use equipment compliant with EIA/CEA-861/861D.
- Set **HDMI auto setting** in the **Setup** Menu to **Mode1**.

 → [Watching TV > 4K compatible equipment > Connecting and viewing](#)

- The valid 4K format varies depending on the HDMI terminal.

 → [Watching TV > 4K compatible equipment > About 4K format](#)

Picture - Continue

Some features are not available on all models.

Why is there a black box on the screen?

- Check the settings of Closed Caption (CC).

Why do some small spots on the screen remain bright or dark?

- The panel is made up of a few million pixels and is produced with advanced technology through an intricate process. Sometimes, a few pixels may be bright or dark.
- These pixels do not indicate a defective panel and will have no impact on the performance of the TV.

Why is the picture brightness changing?

- Turn the C.A.T.S. feature off.



Why does the screen turn off?

- Check if the TV is in energy saving mode.



Why is there a short black image on the screen?

- A black image is displayed to avoid picture distortion when an input signal changes.

Only for the OLED TV

A white horizontal line appears in Standby mode.

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

Sound - None

Why is there no sound coming from the TV?

- Make sure the volume is up and mute is off.
- Check that the correct **SAP** (Secondary Audio Program) is selected by pressing the **SAP** button on the remote control.
- If the TV is connected to a Panasonic Home Theater via HDMI cable, then check VIERA Link controls.
- If the TV is connected to a Home Theater via optical cable, then: Check the connection, the audio system is on, the correct input is selected.
- Check **HDMI in** analog/digital audio settings.



Sound - Unusual

Why is the sound unusual, distorted, low volume or in another language?

- Check that the correct **SAP** (Secondary Audio Program) is selected by pressing the **SAP** button on the remote control.
- Check that all connections of external equipment connected to the TV are secure.
- When using Cable or Satellite box, check the device's audio settings.

(Example: try changing the box's Audio Range to "narrow") • Set **HDMI auto setting** in the **Setup** Menu to **Mode1**.

 → **Watching TV > 4K compatible equipment > Connecting and viewing**

Why is there a clicking, ticking or buzzing sound coming from the TV unit?

- When TV power is turned on or shut off there are electrical components that make a click sound. This is normal operation.
- Changes in the temperature and humidity of the room may cause thermal expansion and contraction that can produce sounds. This is not a sign of faulty operation or a malfunction.

Networking

How do I get Internet services to work on my TV?

1. You need a broadband (High-Speed) Internet service with a speed of no less than 1.5 Mbps.
 2. Connect the TV to the Internet through your router by an Ethernet cable or a Panasonic Wireless LAN (built-in).
 3. Start **Network connection** wizard, then follow the directions on the screen to connect. If the connections still fails, then check with your Internet service provider or router/modem manufacturer if there are firewall, content filter or proxy settings that may block the TV from accessing the Internet.
-

Software update

How do I check for the latest software (firmware) version for my TV?

- In the main menu, select **Network**. Select **Software update**. The current version and latest version software will be displayed. If software update is grayed out, the TV is not connected to the Internet. If a newer version is available, update your TV. Follow the on screen instructions, do not power off the TV until the update is complete. Be patient; firmware update may take a while.

How do I get the software update information and download periodically?

- In the main menu, select **Network**. Highlight **New software notice**. Make sure that setting is **On**.

When the TV is turned On, update message is displayed if available.

Follow the directions on the screen to download.

Voice guidance

How does the voice guidance feature work?

- This function provides you with useful voice guidance for basic features.
- For more information about settings or operation of voice guidance, please refer to the page below.

 → [Convenience features > Using Voice guidance](#)

Eco navigation

Why does my picture look dim and/or sometimes changes brightness levels?

- This TV is equipped with a money saving feature called Eco Navigation. The TV automatically dims the brightness to save energy. It also puts the picture in “Standard” mode and enables the C.A.T.S. feature so it will adjust the picture brightness automatically depending on the rooms ambient lighting conditions. This mode will also turn the TV power off if no signal is detected for 10 minutes.
- For more information about Eco navigation, please refer to the page below.

 → [Convenience features > Eco navigation > Eco navigation](#)

Other

Some features are not available on all models. Available menu items are displayed on your TV screen.

What is the easiest and best way to connect a High-Definition Cable or Satellite box to the TV?

- Use an HDMI cable. It carries both digital video and audio signal in HD. The HDMI cable is the only cable needed to connect an HD device to the TV.

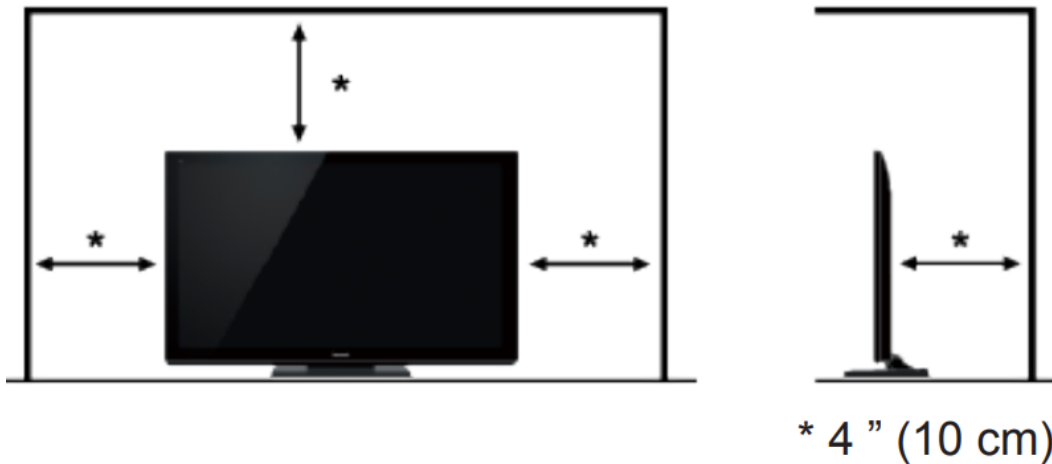
Why does the **CC** button not display Closed Caption?

- Check if the setting is turned **On** or **CC on mute**.
- When viewing TV via an HDMI connected device, such as a Cable or Satellite box, CC must be enabled on the device.
- Closed Caption is available only for supported TV programming and supported contents via Video (Composite) input.

Why does the screen and back cover of the TV get warm?

- The main unit radiates heat and some of the parts may become hot. This is normal operation and does not affect the performance of the set.
- Ensure good ventilation.

- Do not block the ventilation holes of the TV and do not place the TV on top of other equipment.



Where is the power source and power consumption?

- For information about the power source and power consumption, refer to the nameplate on the rear enclosure.

LED does not light.

- Set **Power LED Indicator** in the **Setup** Menu to **On**.

 → [Convenience features > Power LED Indicator > Using Power LED Indicator](#)

LED turns to orange.

- LED turns to orange during adjustment of the panel (approx. 10 minutes to maximum 80 minutes). LED turns to orange again in standby mode when the TV is turned on / off before the panel adjustment is completed.

The panel maintenance notification is displayed when turning the TV off.

- Perform the panel maintenance. Select **Turn the TV off now** and press to start the panel maintenance.
 - The panel maintenance is interrupted when selecting **Don't start panel maintenance this time** or turning the TV off while the notification is displayed.

Menu - Gray-out or missing items

Why the **Antenna/Cable** option or available inputs are not listed in the **Input select** menu?

- When you label an input as **Not used**, then it will be hidden from the **Input select** menu. To make the input visible again:
 1. Display the **Menu** and select **Setup**.
 2. Select **Input labels** from **Display customization** and press .


3. Select the desired input and press to change the label.

Some menu items are grayed-out and unable to be selected. Why?

- Depending on certain modes or the selected input, some options are not available.

Reset to factory defaults

How do I reset my TV to all factory defaults and settings?

- In the main menu, select **Setup** and then select **System**. Highlight **Factory defaults** and press .

Enter your password (if locked).

Confirmation message will be displayed.

Follow the directions on screen to reset the TV to its original factory defaults.

Warning

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