Thank you for purchasing this Panasonic product. Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.
Do not display a still picture for a long time
This causes the image to remain on the plasma screen (“Image retention”).
This is not considered a malfunction and is not covered by the warranty.

Typical still images
● Channel number and other logos
● Image displayed in 4:3 mode
● Photo
● Video game

Set up
● Do not place the unit where it’s exposed to sunlight or other bright light (including reflections).
● Use of some types of fluorescent lighting may reduce the remote control’s transmission range.
Contents

Please read before using the unit

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Safety Precautions

WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments / accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.
WARNING

Small parts can present choking hazard if accidentally swallowed.
Keep small parts away from young children.
Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

Set up
This Plasma TV may fall and can cause personal injury or even death if not installed correctly. To prevent personal injury or death, follow these warnings:

- Install the Plasma TV in accordance with the manufacturer’s recommended pedestal or stand, corresponding hardware and installation instructions.
This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability. The following accessories are manufactured by Panasonic Corporation.
  - Wall-hanging bracket (Angled)
    TY-WK4P1RW
- Be sure to ask a qualified technician to carry out the installation and set-up.
  Two or more people are required to install or remove the television.
- Some wall mounts (wall-hanging brackets) are not designed to be mounted to walls with steel studs or old cinder block constructions. Ask your dealer or licensed contractor to properly secure the wall-hanging bracket.
- Do not route the TV’s power cord inside the wall.
The power cord was not designed for in-wall mounting.
  Doing so can lead to fire hazard.
- Do not place the Plasma TV or its stand on a sloped or unstable surface.
The Plasma TV may fall or tip over.
- Do not support the Plasma TV on a non-specified pedestal.
- Do not place the Plasma TV on furniture that can easily be used as steps, such as a chest of drawers.
- Do not climb or allow children to climb on the Plasma TV.
- Place or install the Plasma TV where it cannot be pushed, pulled over or knocked down.
- Route all cords and cables such that they cannot be tripped over or pulled by curious children.
- Do not place any objects on top of the Plasma TV.
  If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur, which could result in fire or electrical shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

- In the unlikely event that you receive a shock from this product, it is possible that your household outlet may be wired improperly. Have an electrician verify that the TV’s outlet is properly wired. If the problem persists, have the TV serviced by a qualified authorized technician.
- To prevent the spread of fire, keep candles or other open flames away from this product at all times.

AC Power Supply Cord
To prevent fire or electric shock:
- The Plasma TV is designed to operate on a AC 110-120 V, 60 Hz <TC-P42/50X60H>
  AC 110-220 V, 50/60 Hz <TC-P42/50X60L>
  service. Insert the power cord plug as far as it will go into the wall socket.
  If the plug is not fully inserted, heat may generate, which could cause a fire.
- The included power cord is for use with this unit only.
- Do not use any power cord other than that provided with this TV.
- Do not handle the power cord plug with wet hands.
- Do not do anything that might damage the power supply cord.
- When disconnecting the power supply cord, hold the plug, not the cord.
- Do not use the power supply cord if the plug or cord is damaged.
  Replace the cord or contact your Authorized Service Center.
- Do not use a 3-prong to 2-prong AC plug adapters to connect your TV’s plug to the wall outlet.
  Doing so will defeat the TV plug’s safety feature, which can lead to a shock hazard. If the wall outlet does not accommodate a 3-prong plug, have a qualified electrician replace your outlet and check the associated wiring.

Handling the power supply cord
- Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)
- Ensure that the power plug is easily accessible.
- Ensure the earth pin on the power plug is securely connected to prevent electrical shock.
  - An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.
- Do not touch the power plug with a wet hand.
  (This may cause electrical shock.)
- Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)
● Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)
  • Do not move the TV with the cord plugged in the socket outlet.
  • Do not place a heavy object on the cord or place the cord near a high-temperature object.
  • Do not twist the cord, bend it excessively, or stretch it.
  • Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
  • Do not use a damaged power plug or socket outlet.

● If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power supply cord immediately.
  Continued use of the TV under these conditions might cause a fire or permanent damage to the TV. Have the TV evaluated by an Authorized Service Center. Servicing of the TV by unauthorized personnel is strongly discouraged due to its high voltage.

● If water or an object gets inside the Plasma TV, if the Plasma TV is dropped, or if the enclosure becomes damaged, unplug the power supply cord immediately.
  A short-circuit may occur, which could cause a fire. Contact an Authorized Service Center for an evaluation.

⚠️ CAUTION

● Do not cover the ventilation holes.
  Doing so may cause the Plasma TV to overheat, which can cause a fire or damage to the Plasma TV.

● Leave a space of 10 cm or more at the top, left and right, and 7 cm or more at the rear.

● When using the pedestal, keep the space between the bottom of the TV and the pedestal or stand surface clear from objects that may obstruct ventilation.

■ When Moving the Plasma TV

● Be sure to disconnect all cables before moving the Plasma TV.
  Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

● To prevent an electric shock, disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

● Transport only in upright position.
  Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

● Using a dry cloth, clean any dust from the power supply cord and plug regularly.
  Build-up of dust on the power cord plug can increase humidity, which might damage the insulation and cause a fire.

This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

The TV will still consume some power as long as the power supply cord is connected to the wall outlet.

● Display panel is made of glass. Do not apply strong force or impact to the display panel.
  This may cause damage resulting in injury.

● The TV is heavy. TV should be handled by 2 or more people. Support as shown below to avoid injury by the TV from tipping or falling.
Check if you have all of the items shown below.

- □ Remote Control
  - N2QAYB000822

- □ Batteries (2)
  - AA Battery

- □ Power cord
  - (TC-P42/50X60L)
  - (TC-P42/50X60H)

- □ Owner's Manual

- □ Pedestal

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Optional Accessory

Please contact your nearest Panasonic dealer to purchase the recommended optional accessories. For additional details, please refer to the optional accessories installation manual.

Wall-hanging bracket
- TY-WK4P1RW

a: 400 mm
b: 300 mm

The angle of wall-hanging bracket can be adjusted in "zero tilting (vertical)" and "5, 10 or 15-degree tilting" for this TV.

**Warning**
- In order to maintain the TV’s performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying optional accessories, and be absolutely sure to take steps to prevent the TV from tipping over.
- 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.
- When using the angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables not to press against the wall when the TV is tilted forward.
- For safety reasons, remove units no longer being used from their wall-mounted locations.
Attaching the pedestal to TV

Assembling the pedestal

- Fix securely with assembly screws A (Total 4 screws).
- Tighten screws firmly.

Set-up

- Tighten assembly screws B (total 4 screws) loosely at first, then tighten them firmly to fix securely.

Removing the pedestal from the TV

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

1. Remove the assembly screws B from the TV.
2. Lift the TV from the pedestal.
3. Remove the assembly screws A from the pole.

Warning

Do not disassemble or modify the pedestal.
- Otherwise, the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any pedestal other than that provided with this TV.
- Otherwise, the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.
- If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

During set-up, make sure that all screws are securely tightened.
- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

When removing the pedestal, do not remove the pedestal by any methods other than the specified procedure. (above)
- Otherwise, the TV and/or pedestal may fall over and become damaged, and personal injury may result.

Accessories

- Assembly screws (4 of each)
  - A size (M5 × 18)
  - B size (M5 × 30)

- Poles (2)
  - L or R is printed at the bottom of the poles.

- Base (1)
Power cord connection

To attach
Insert it firmly until the tabs on both sides click into place.

To remove
Keep pushing both sides until they snap and pull.

Installing the remote’s batteries

Caution
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.

Hook
Open
Close
Note the correct polarity (+ or -).
Connections

Connection Panels

Back of the TV

DIGITAL AUDIO OUT

USB connector

Back of the TV

Antenna or Cable connection

* See page 9 (Power cord connection)

Power Cord
Connect after all other connections have been made.

Cable

- You need to subscribe to a cable TV service to enjoy viewing their programming.
- A high-definition connection can be made using an HDMI or Component Video cable. (p. 11)

Note

- When using a Cable box, external equipment and video cables shown in this manual are not supplied with the TV.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
**AV cable connection**

### A To use HDMI terminals

- **Best**
  - Connect to Audio input terminal
  - HDMI connection (p. 39)

- **Good**
  - HDMI-DVI Conversion cable
  - DVI OUT
  - AUDIO OUT

- **Basic**
  - e.g. Blu-ray Disc player

### B To use COMPONENT terminals

- **Good**
  - COMPONENT VIDEO OUT
  - Y, Pb, Pr, AUDIO OUT

- **Basic**
  - e.g. Blu-ray Disc player

### C To use COMPOSITE terminals

- **Good**
  - COMPOSITE OUT
  - yellow, white, red

- **Basic**
  - e.g. DVD Recorder
  - or
  - e.g. VCR

- The Green terminal is shared for both the COMPONENT and COMPOSITE (VIDEO IN) connection.
  - When using COMPOSITE (VIDEO IN) connection, the Yellow connector (Video) should be inserted into Green connection. (Watching External Inputs (p. 17))

### Audio Return Channel (HDMI 2 terminal):

Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable back from the TV to a connected audio device.

---

**Audio connection**

- **Digital Audio Out**
  - Optical cable
  - e.g. Amplifier

- **Digital Audio In**
Identifying Controls

**TV controls/indicators**

**Front of the TV**
- Ambient Sensor (Automatic Brightness Control function)
- Power indicator (on: red, off: no light)

**Back of the TV**
- Changes the input mode
- Selects Menu and Submenu entries (Press and hold down for MENU function)
- Selects channels in sequence
- Volume up/down
- POWER button

**Remote control sensor**
- Maximum range for remote is 7 meters from front of TV set

**Note**
- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.
- The TV consumes some electric energy for downloading the EPG even when the power LED is off.
Remote control

- Displays VIERA TOOLS menu
- Switches TV On or Off (Standby)
- Selects your favorite picture mode for each input
- Displays Main Menu
- Displays or removes the information banner
- Displays Option Menu for special functions (when available)
- Colored buttons (used for various functions)
- Volume up/down
- Selects Secondary Audio Programming
- Input mode selection
- TV Guide
- Still picture
- Exits from menu screen
- Selects/OK/Change
- Go back to previous menu
- Changes aspect ratio and zoom
- Channel up/down, when viewing from ANT/Cable source
- Sound mute On/Off
- Numeric keypad to select any channel or press to enter alphanumeric input in menus
- Switches to previously viewed channel or input
First Time Auto Tuning

The First Time Auto Tuning screen will be displayed only when the TV is turned on for the first time and after the power cord is inserted into a wall outlet.

1. **Turn the TV on with the POWER button**
   - (TV)
   - (Remote)

2. **Setup the following items**
   - Set up each item by following the on-screen instructions.
   - **Select your language**
   - **Select [Home]**
   - Select [Home] viewing environment to use in your home environment.
     - [Shop] is for shop display.
     - To change viewing environment later on, you will need to initialise all settings by accessing Shipping Condition.
   - **Select your Country**
   - Tick the TV signal mode to tune, and then select [Start Auto Tuning]
     - ✓: tune (search for the available channels)
     - □: skip tuning
   - DVB-T is only available in Colombia / Panama.
   - ISDB-T is only available in Peru / Chile.
Watching TV

1 Turn power on
   (TV)        (Remote)
   or

2 Select Digital TV or Analogue TV

3 Select a channel
   up          or          down
   ● To select 2 or more-digit channel position number, e.g. 399

To select from the Channel List

<table>
<thead>
<tr>
<th>All Digital Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>6  Cartoon Nwk</td>
</tr>
<tr>
<td>7  ABC Radio Wales</td>
</tr>
<tr>
<td>8  ABC Radio Cymru</td>
</tr>
<tr>
<td>1  ABC ONE Wales</td>
</tr>
<tr>
<td>2  ABC THREE</td>
</tr>
<tr>
<td>3  ABCi</td>
</tr>
<tr>
<td>4  CABC Channel</td>
</tr>
</tbody>
</table>

Note

- The TV will automatically go into Standby mode when no operation is performed for 4 hours if [Auto Standby] in the Timer Menu is set to [On].
- The TV will automatically go into Standby mode when no signal is received and no operation is performed for 10 minutes if [No signal Power off] in the Timer Menu is set to [On].

Aspect

Change the aspect ratio (image size)

ASPECT

[16:9]: Directly displays the image at 16:9 without distortion (anamorphic).
[Just]: Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.
[4:3]: Displays the image at the standard 4:3 without distortion.
[Zoom]: Displays a 16:9 letterbox or 4:3 image without distortion.
[4:3 Full]: Displays a 4:3 image enlarged horizontally to fit the screen.
- For HD (High definition) signals
[Sidecut Just]: Displays a 16:9 letterbox (anamorphic) image full-screen. Stretching is only noticeable at the left and right edges.
- For HD (High definition) signals
[Sidecut Zoom]: Displays a 16:9 letterbox (anamorphic) image full-screen without distortion.
- For HD (High definition) signals

Note

- Aspect mode can be memorised separately for SD (Standard definition) and HD (High definition) signals.
Display Information banner

INFO ● Also appears when changing a channel.

Example: Digital TV

1 Channel position and name
2 Channel type ([Radio], [Data], etc.) / Encrypted channel (☑) / TV mode (☑, ☑)
3 Programme
4 Current time
5 Programme Start / Finish time (Digital TV)
6 Favourites

*Features available / Message meanings

[ ] Sound mute on
[Bad signal] Poor TV signal quality

[Dolby D], [HE-AAC] Dolby Digital or HE-AAC audio track

[Subtitle] Subtitle service available (Digital TV)
(TC-P42/50X60H)

[CC] Closed caption service available

[Text] Digital text service available

[SAP] Audio mode available

1 - 90 Off Timer remaining time
Watching External Inputs

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

1. **Turn power on**
   - (TV)
   - (Remote)
   - or
   
   If input mode is not switched automatically
   Perform ② and ③
   ● Check the setup of the equipment.

2. **Display the input selection menu**

3. **Select the input mode connected to the equipment**

   ![Input Selection Menu]
   - Select
   - Watch
   
   ● You can also select the input by pressing the AV button repeatedly.
   ● To switch between [COMPONENT] and [VIDEO] in [AV], use left and right cursor button.
Using TV Guide (Digital TV)

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 broadcasters).

- 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.

1. If in Analogue TV
2. Select Digital TV
3. View TV Guide

GUIDE

- Press again to change the layout.
- View [Landscape] to see several channels.
- View [Portrait] to see one channel by time.

Example: [Landscape]

Example: [Portrait]

1. Current date and time
2. TV Guide date
3. TV Guide time
4. Programme
5. Channel position and name

■ To watch the programme

① select ② access

■ To the previous day

R (red)

■ To the next day

G (green)

■ To view a channel list of the selected type

Y (yellow)

■ To view a channel list of the selected favourite list

B (blue)
Using Menu Functions

1 Display the menu

2 Select the menu

3 Select the item

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. (English only)

Set characters one by one

You can set characters by using numeric buttons.
Viewing Mode
Selects your favourite picture mode for each input.
[Dynamic]: Improves contrast and sharpness for viewing in a bright room.
[Normal]: Normal 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.
[True Cinema]: Reproduces the original image quality precisely without any revision.
[Custom]: Adjusts each menu item manually to suit your favourite picture quality.

In each Viewing Mode, [Contrast], [Brightness], [Colour], [Tint], [Sharpness], [Colour Temperature], [Vivid Colour], [Ambient Sensor], [Noise Reduction] and [MPEG Noise Reduction] can be adjusted and stored. When in [True Cinema] or [Custom] mode, [Advanced Settings] can be adjusted additionally. The settings in [True Cinema] or [Custom] mode can be stored for each input.

Contrast / Brightness / Colour / Tint / Sharpness
Adjusts the levels of these options according to your personal preference.

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

Vivid Colour
Automatically adjusts colours to vivid ones.

Ambient Sensor
Automatic Brightness Control function
Adjusts picture settings automatically depending on ambient lighting conditions.

Noise Reduction
Reduces unwanted picture noise.

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

Advanced Settings
■ Panel Luminance Setting
Changes the luminance level of the panel to adjust the overall brightness.

■ Adaptive Gamma Control
Adjusts the gamma curve to make the image brighter.
■ Black Expander
Gradually adjusts the shades of black.
■ Colour Gamut
Reproduces image colour precisely according to the colour gamut.
[Normal]: Displays colours according to the colour gamut.
[Native]: Displays deep colours by expanding the colour gamut to its maximum.
■ White Balance
Adjusts the white balance of bright red / green / blue areas.
Adjusts the white balance of dark red / green / blue areas.
[Reset to Defaults]
Resets to the default White Balance.
■ Colour Management
[R-Hue] / [R-Saturation] / [R-Luminance]
Adjusts the picture hue / saturation / luminance of red areas.
Adjusts the picture hue / saturation / luminance of green areas.
[B-Hue] / [B-Saturation] / [B-Luminance]
Adjusts the picture hue / saturation / luminance of blue areas.
[Reset to Defaults]
Resets to the default Colour Management.
■ Gamma
[Gamma]
Switches the gamma curve.
● Please note the numerical values are reference for the adjustment.
[Reset to Defaults]
Resets to the default Gamma.
■ Reset to Defaults
Resets [Advanced Settings] to the default settings.

Option Settings
■ Film Cadence Mode
Improves vertical resolution for movie images.
● This function is available for interlaced signals.
■ HDMI Content Type
Adjusts the picture settings of each HDMI input according to the selected content type.
● For HDMI input
[Auto]: Automatically adjusts the picture settings according to the received HDMI content if the connected equipment supports HDMI Content Type.
● To set the availability of each content type for [Auto] mode ⇒ [Auto Detail Setting]

20
HDMI RGB Range
Adjusts the black level of the image for each HDMI input.
- When the black level is not suitable, select [Full].
- For HDMI input

Setup Level
Changes the black level of the image to the suitable level.
- You can set this function for each input (Analogue TV, Video, Component and HDMI).
- 7.5IRE is one of the setup level for NTSC standard.

AV Colour System
Selects optional colour system based on video signals.
- For AV input

3D-COMB
Makes still or slow moving pictures more vivid.
Occasionally, while viewing still or slow moving pictures, colour patterning may be seen. Set to [On] to display sharper and more accurate colours.
- For NTSC signal reception in TV mode or from composite

Refresh Rate
Changes the image processing of the panel (depending on the input signal).
- Set to [100Hz] normally.

Screen Settings
16:9 Overscan
Selects the screen area displaying the image for 16:9 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 occurs on the edge of the screen.
- This function can be memorised for SD (Standard definition) and HD (High definition) signals respectively.

H-Size
Switches the horizontal display range to reduce noise on the side edge of the image.
- For TV mode, AV and HDMI input

Zoom Adjustments
Adjusts the vertical position and size when aspect is set to [Just], [Sidecut Just], [Zoom] or [Sidecut Zoom].

Screen Display
Turns the screen off when you select [Off].
This function is effective in reducing power consumption when listening to the sound without watching the TV screen.
- Press any buttons (except Standby) to turn the screen on.

Side Panel
Adjusts the brightness of the side panel.
- The recommended setting is [High] to prevent panel “image retention”.

Pixel Orbiter
Selects the mode for wobbling of the image to prevent panel “image retention”.
- [Auto]: Automatically works only for the appropriate images and you rarely recognise the wobbling.

Scrolling Bar
Displays scrolling bar pattern to assist elimination of panel “image retention”.
- Press the OK button to start scrolling and press any buttons (except Standby) to exit this mode.
- For positive effect to eliminate “image retention”, it may be necessary to display for a long time.

Copy Adjustment
Copies the selected [True Cinema] or [Custom] settings to those of the other input.

Reset to Defaults
Resets the current Picture Viewing Mode to the default settings.

Sound
Mode
Selects your favourite sound mode for each input.
- [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.
- [User]: Adjusts the sounds manually by using the equaliser to suit your favourite sound quality.
  - In each mode, [Bass], [Treble] and [Surround] can be adjusted and stored.
  - For the User mode, [Equaliser] will be available in the Sound Menu instead of [Bass] and [Treble]. Select [Equaliser] and adjust the frequency.

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

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

Equaliser
Adjusts the frequency level to suit your favourite sound quality.
- This function is available when [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.
Balance
Adjusts volume level of right and left speakers.

Surround
Provides a dynamic enhancer of width to simulate improved spatial effects.

Auto Gain Control
Automatically regulates large sound level differences between channels and inputs.

Volume Correction
Adjusts the volume of each individual channel or input mode.

Speaker Distance to Wall
Compensates for the low frequency sound due to the distance between the speakers and the wall.
- If the back space between the TV and wall is within 30 cm, [Up to 30cm] is recommended.
- If the back space between the TV and wall is over 30 cm, [Over 30cm] is recommended.

Audio Preference
(TC-P42/50X60H)
Selects the initial setting for audio tracks.
[Auto]: Automatically selects the audio tracks if a programme has more than two tracks. The priority is given in the following order - HE-AAC, Dolby Digital, MPEG.
[MPEG]: The priority is given to MPEG.
- Dolby Digital is the methods of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can be multi-channel audio.
- HE-AAC is a perceptual coding method used to compress digital audio for efficient storage and transmission.
- MPEG is an audio compression method that compresses audio to the smaller size without any considerable loss of audio quality.
- HE-AAC is the technologies for HD (High definition) programmes.
- For Digital TV

SPDIF Selection
SPDIF: A standard audio transfer file format
Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT and HDMI2 (ARC function) terminals.
[Auto]: Dolby Digital is output as Dolby Digital Bitstream. HE-AAC and MPEG are output as PCM. DTS is output as DTS for video contents of Media Player.
[PCM]: Digital output signal is fixed to PCM.
- ARC (Audio Return Channel): A function of digital audio output using HDMI cable
- For Digital TV or video contents of Media Player (p. 30)

HDMI Input
HDMI1 / 2
Selects to fit the input signal. (p. 39)
[Digital]: When sound is carried via the HDMI cable connection
[Analogue]: When sound is not carried via the HDMI-DVI adaptor cable connection
- For HDMI input

Reset to Defaults
Resets the current Sound Mode to the default settings.
### Timer

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Off Timer</strong></td>
<td>Sets the duration of time until the TV automatically goes into Standby mode.</td>
</tr>
</tbody>
</table>
| **Time Zone**     | Adjusts the time data<br>

  - The time data will be corrected based on GMT. |
| **Daylight Saving Time** | Selects time offset from the standard time for Summer Time.                                                                                     |
| **Auto Standby**  | Automatically turns the TV to Standby mode for energy saving when no operation is performed for 4 hours.<br>

  - Automatic input switching with the connected equipment affects this function and time-count will be reset.<br>

  - The notification message will appear 3 minutes before going into Standby mode. |
| **No signal Power off** | Automatically turns the TV to Standby mode to prevent unnecessary power consumption when no signal is received and no operation is performed for 10 minutes.<br>

  - The notification message will appear 3 minutes before going into Standby mode. |

### Setup

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eco Navigation</strong></td>
<td>Automatically sets the TV to the most suitable energy-saving mode. The concerned items and their current settings are displayed. Select [Set to Eco] to set them to the energy-saving settings at once.</td>
</tr>
<tr>
<td><strong>Child Lock</strong></td>
<td>Applies access control for channels or inputs to prevent unwanted access. (p. 28)</td>
</tr>
</tbody>
</table>
| **Tuning Menu**    | *Favourites Edit*<br>Copies a list of favourite channels. (p. 25)<br>

  - For Digital TV<br>
| **Channel List**   | Skips unwanted channels or edits channels. (p. 26)<br>
| **Auto Tuning**    | Automatically searches for receivable channels. (p. 26)<br>
| **Manual Tuning**  | Searches for channels manually. (p. 26)<br>
| **Update Channel List** | Updates the channel list while keeping your settings. (p. 27)<br>

  - For Digital TV<br>
| **New Channel Message** | Selects whether to give a notification message when a new channel is found.<br>

  - For Digital TV<br>
| **Select Primary Channels** | (TC-P42/50X60L)<br>Set to [Primary Channels] to skip the sub-channels when using the channel up/down button.<br>

  - For Digital TV<br>
| **Signal Condition** | Checks the signal condition.<br>

  - For Digital TV<br>
| **Language**        | *OSD Language*<br>Changes language for on-screen displays.                                                                                     |
Display Settings

- **Input Labels**
  Accesses the input labels list to select the label of each input mode or set to skip unconnected one for easier identification and selection in [Input Selection] (p. 17) or banner.
  - To name each input mode freely, select [User input] and set characters (maximum 10 characters).
  - To skip the input mode, select [Skip].

- **Banner Display Timeout**
  Sets how long the information banner stays on screen.

VIERA Link Settings

- **VIERA Link**
  Sets to use VIERA Link functions. (p. 35)

- **Power on Link**
  Sets to use Power on Link functions. (p. 37)

- **Power off Link**
  Sets to use Power off Link functions. (p. 37)

- **Standby Power Save**
  Controls the connected equipment to reduce power consumption in Standby. (p. 37)
  - This function is available when [VIERA Link] is set to [On] and [Power off Link] is set to [On].

- **Intelligent Auto Standby**
  Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption. (p. 37)
  - This function is available when [VIERA Link] is set to [On].

System Menu

- **USB Keyboard Layout**
  Selects the language that your USB Keyboard supports.

- **Shipping Condition**
  Resets all settings to the original condition.

- **System Update**
  Downloads new software to this TV. (p. 29)

- **Licence Menu**
  [Software Licence]
  Displays the software licence information.

Other Settings

- **Power Save**
  Reduces brightness of the picture to economise on power consumption.

Help

**TV Self Test**
Makes a diagnosis of picture or sound problems. Follow the on-screen instructions.

**System Information**
Displays the system information of this TV.

*Note*
*The menu name varies depending on the TV mode.
- A different menu will be displayed in the mode of Media Player. (p. 30)
- Only available items can be selected.*
Tuning and Editing Channels

You can retune channels or make your favourite channel lists, skip unwanted channels, etc.

**MENU ➞ [Setup] ➞ [Tuning Menu]**

*The menu name varies depending on the TV mode. ([Digital TV Tuning Menu] / [Analogue TV Tuning Menu])
* The settings in [Tuning Menu] are applicable only for the selected TV mode.

---

**Favourites Edit**

Create your favourite channel lists from various broadcasters (up to 4: [Favourites]1 to 4). The Digital TV Favourites lists are available from “Favourites” in the Information banner and the TV Guide screen.

1. **Select a channel to list (encrypted channel)**
   Example: Digital TV

<table>
<thead>
<tr>
<th>All Digital Channels</th>
<th>Favourite1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ABC ONE Wales</td>
<td></td>
</tr>
<tr>
<td>7 ABC THREE</td>
<td></td>
</tr>
<tr>
<td>14 E4</td>
<td></td>
</tr>
<tr>
<td>72 CABC Channel</td>
<td></td>
</tr>
<tr>
<td>72 Cartoon Nick</td>
<td></td>
</tr>
<tr>
<td>105 ABC</td>
<td></td>
</tr>
<tr>
<td>719 ABC Radio Wales</td>
<td></td>
</tr>
<tr>
<td>720 ABC Radio Cymru</td>
<td></td>
</tr>
</tbody>
</table>

2. **Add it to the Favourites list**
   Example: Digital TV

<table>
<thead>
<tr>
<th>All Digital Channels</th>
<th>Favourite1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ABC ONE Wales</td>
<td></td>
</tr>
<tr>
<td>7 ABC THREE</td>
<td></td>
</tr>
<tr>
<td>14 E4</td>
<td></td>
</tr>
<tr>
<td>72 CABC Channel</td>
<td></td>
</tr>
<tr>
<td>72 Cartoon Nick</td>
<td></td>
</tr>
<tr>
<td>105 ABC</td>
<td></td>
</tr>
<tr>
<td>719 ABC Radio Wales</td>
<td></td>
</tr>
<tr>
<td>720 ABC Radio Cymru</td>
<td></td>
</tr>
</tbody>
</table>

3. **Store**

   To edit the list by using the coloured buttons
   While the cursor is in the left field
   ■ **Select favourites**: Displays other Favourites.
   While the cursor is in the right field
   ■ **Edit list name**: Names the Favourites.
   ■ **Move**: Moves the channel.
   ■ **Delete all**: Deletes all channels.

**Note**

- Channel numbers are defined by the broadcaster and cannot be changed.
- Hidden channels can be selected but not viewed.
Channel List

You can hide (skip) unwanted channels. The hidden channels cannot be displayed except in this function.

Select a channel and reveal / hide

Example: Digital TV

<table>
<thead>
<tr>
<th>All Digital Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 7CABC Channel</td>
</tr>
<tr>
<td>72 Cartoon Nwk</td>
</tr>
<tr>
<td>105 ABC</td>
</tr>
<tr>
<td>719 ABC Radio Wales</td>
</tr>
<tr>
<td>720 ABC Radio Cymru</td>
</tr>
<tr>
<td>1 ABC ONE Wales</td>
</tr>
<tr>
<td>7 ABC THREE</td>
</tr>
</tbody>
</table>

① select a channel
② reveal / hide

☑: [Reveal]
☐: [Hide] (skip)

To edit the list by using the coloured buttons

- **Swap / Move**: Swaps / moves the channel position. (if available)
- **Reveal all**: Reveals all channels.
- **Tune**: Retunes each channel ([Manual Tuning]).
- **Rename**: Renames the channel name. (Analogue)

Auto Tuning

Automatically retune the channels received in the area.
- All the previous tuning settings are erased.
- When the operation is completed, the channel at the lowest position will be displayed.
- Search begins in the order from the lower channels to the higher channels.
- If tuning has not been done completely ⇒ [Manual Tuning] (see below)

Manual Tuning

Normally use [Auto Tuning] or [Update Channel List] to retune Digital TV channels. If tuning has not been done completely or for adjusting the direction of the aerial or dish, use this function.
- All channels found will be added to the Channel List.

Digital TV

1. Select frequency and offset

2. Search
Analogue TV

A

In

Analogue TV Manual Tuning

CH 57
Fine Tuning
External Tuning
Sound System
Colour System

■ Fine Tuning
Use to make small adjustments to the tuning of an individual programme (affected by weather conditions, etc.).

■ Colour System
Set [Colour System], and then perform Manual Tuning. Normally set [Colour System] to [Auto].

1 Select the channel position

Use to make small adjustments to the tuning of an individual programme (affected by weather conditions, etc.).

2 Select the channel

3 Search

4 Select [Store]

Update Channel List

You can add new channels, delete removed channels, update channel name and position automatically to the channel list.

- The channel list is updated while keeping your settings in [Favourites Edit], [Channel List], [Child Lock], etc.
- Depending on the signal condition, the update may not work properly.
Child Lock

You can lock specific channels / AV input terminals and control who watches them. When the locked channel / input is selected, a message appears. Enter the PIN number to watch.

MENU ➔ [Setup] ➔ [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 [Child Lock List] and set the channel / input to be locked

To edit the list by using the coloured buttons

■ Lock all: Locks all channels and input.
■ Unlock all: Cancels all locks.
■ Next input: Jumps to the top of the next input.

To change the PIN number
Select [Change PIN] and enter a new PIN number twice

Note

● Setting [Shipping Condition] (p. 24) erases the PIN number and all settings.
Updating the TV Software

A new version of software may be released for download to enhance the performance or operations of the TV.

If there is an update available, a notification message is displayed when the channel has the update information.

**To download**

(Press the EXIT button not to download)

You can update new software automatically or update manually.

**[Setup] ➔ [System Menu] ➔ [System Update]**

■ **To update automatically**

Select [Auto Update Search in Standby] and set

<table>
<thead>
<tr>
<th>System Update</th>
<th>Auto Update Search in Standby</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Update</td>
<td>System Update Search Now</td>
<td></td>
</tr>
</tbody>
</table>

If System Update is performed, the software will be updated (it may change TV functions). If you do not want to do so, set [Auto Update Search in Standby] to [Off].

■ **To update immediately**

(TC-P42/50X60L)

1 Select [System Update Search Now]

2 Searches for an update (for several minutes) and displays a corresponding message if any

3 Download

**Note**

- Download may take for a few hours.
- During software download and update, DO NOT switch off the TV.
- The notification message might be a reminder. In this case, the schedule information (the date that the new version can be used) will appear. You can set the reservation for update. The update will not start when the TV is off.
Using Media Player

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

Photo mode: Digital photo data will be displayed.
Video mode: Digital video data will be played back.
Music mode: Digital music data will be played back.

- Supported file format ⇒ “Supported file format in Media Player” (p. 40)
- During the operation, audio signal is output from DIGITAL AUDIO OUT and HDMI2 (ARC function) terminals. To use HDMI2 with ARC function, connect an amplifier that has ARC function and set to use theatre speakers (p. 36, 38).
- [Date] shows the date on which the recording was made by the recording equipment. The file without record of the date is shown “****/**/**”.
- The picture may not appear correctly on this TV depending on the recording equipment used.
- Display may take some time when there are many files and folders.
- Partly degraded files might be displayed at a reduced resolution.
- Picture setting may not work depending on the conditions.
- The folder and file names may be different depending on the digital camera or digital video camera used.

■ 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 type of terminals and devices are correct when connecting.

1 Insert the USB Flash Memory to the TV

2 Display [VIERA TOOLS] and select the content (Photo / Video / Music)

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

■ To change the device
While the thumbnail is displayed, display the device selection
(yellow)

■ To change the contents
While the thumbnail is displayed, display the contents selection
(blue)
Example: Thumbnail - [All photos]

[Single view] - Photos are displayed one at a time. 
[Slideshow] - Slideshow completes when all photos are viewed within the current thumbnail.

1. Select the file from the thumbnail of photos for the first view
2. Start Slideshow

[Folder view]: (TC-P42/50X60L) 
[All photos]: (TC-P42/50X60H)

Displays the thumbnail grouped by folder.
● The files which are not into a folder will be collected to the folder named “/”.

[Sort by Date] / [Sort by Month]:
Displays the thumbnail grouped by the same date or month.
● The files which are not into a folder will be collected to the folder named “/”.

To change the size of photos on a thumbnail screen

[Change Size]

To sort by folder, recorded date or recorded month

1. Display the view selection in the thumbnail view
2. Select the sort type
Photo Settings

- **Frame**
  Selects the frame type of the slideshow.

- **Colour Effect**
  Selects the colour effect of photos on Single view and Slideshow.
  - This function is not available when [Frame] is set to [Drift], [Gallery] or [Cinema].

- **Transition Effect**
  Selects the transition effect for switching the photo during the slideshow.
  - This function is available when [Frame] is set to [Off].

- **Auto Makeup**
  Automatically detects the face in the photo and improves luminance and contrast.

- **Screen Mode**
  Selects enlarged or normal viewing on Single view and Slideshow.
  - This function is not available when [Frame] is set to [Collage], [Drift], [Gallery] or [Cinema] / when [Transition Effect] is set to [Motion].
  - Depending on the photo size, it may not be fully enlarged to fill the screen, e.g. portrait style picture.

- **Burst Playback**
  Selects whether to display burst photos in a fast-paced slideshow mode.
  - This function is not available when [Frame] is set to [Drift], [Gallery] or [Cinema] / when [Transition Effect] is set to [Motion].

- **Interval**
  Selects slideshow interval.
  - This function is not available when [Frame] is set to [Drift], [Gallery] or [Cinema] / when [Transition Effect] is set to [Motion].

- **Repeat**
  Slideshow repeat

- **Back Ground Music**
  Selects the background music during Photo mode.
  - [Type1 - 5] are the fixed music each installed in this TV.
  - [User]: Music data in the device registered by yourself will be played back.

**To register the music**

1. **Select the music file**
   Depending on the condition of the device, select folders until you reach the desired music file.

   ![Back Ground Music Tree]

2. **Select [File] or [Folder]**
   - [File]: The selected music file will be registered.
   - [Folder]: All the music in the folder which contains the selected music file will be registered.
     - If no music has been registered or the device which has the registered music is removed, no sound will be produced.
   - [Auto]: Music data stored in the root folder of the current device will be played back randomly.
     - If there is no available music data, no sound will be produced.

**Note**
- Picture quality may become lower depending on the slideshow settings.
- Picture setting may not work depending on the slideshow settings.
Example: Thumbnail - [Title view]

1. Select the title / scene

2. Start playback

- [Video Preview]

- To turn off the preview

- To display / hide the operation guide and information banner

- To change aspect

- To jump to the specified time point

While the time seek bar is displayed, use left and right cursor button.
Press: Search about 10 seconds
Press and hold: Search rapidly

Video Setup

- Video Preview

  Sets to start the preview of the title or scene in the thumbnail view.

  - Image may not be displayed for an instant in the thumbnail view. Set the preview [Off] to resolve this.

  - Only available in the thumbnail view

- Multi Audio, Dual Mono Audio

  Selects between selectable sound tracks (if available).

  - It may take several seconds to change the sound.

  - Only available during playback

- Subtitle

  Subtitles On / Off (if available).

  - Only available during playback

- Subtitle Text

  Selects the font type to display subtitles correctly (if available).

  - Only available during playback

- Repeat

  Playback repeat within the selected file (depending on the content).
Music mode

Example: Thumbnail - [Folder view]

## Select the folder / file

1. Select the folder / file

## Start playback

2. Start playback

- To display / hide the operation guide

### Music Setup

- Option Menu

#### Repeat

- [Folder]: Playback repeat within the selected folder
- [One]: Playback repeat of the selected one file
VIERA Link

VIERA Link “HDAVI Control™”

Enjoy additional HDMI Inter-Operability with Panasonic products which have “HDAVI Control™” function.

VIERA Link (HDAVI Control) connects the TV and the equipment with VIeRA Link function, and enables easy control, playback, energy saving, creating home theatre, etc., without complicated settings. Connections to the equipment (HD Video Camera, Player theatre, Amplifier, etc.) with an HDMI cable allow you to interlace them automatically (p. 36). These features are limited to models incorporating “HDAVI Control” and “VIeRA Link”.

- This TV supports “HDAVI Control 5” function.
- “HDAVI Control 5” is the newest standard for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
- Some functions are not available depending on the equipment’s version of HDAVI Control. Confirm the connected equipment’s version of HDAVI Control.
- Some functions may not work properly depending on the connected equipment.
- VIeRA Link features may be available even with other manufacturers’ equipment supporting HDMI CEC.
- VIeRA Link “HDAVI Control” is a unique function that we have developed and added based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control). As such, its operation with other manufacturers’ equipment that supports HDMI CEC cannot be guaranteed.
- Please refer to individual manuals for other manufacturers’ equipment supporting VIeRA Link function.
- About applicable Panasonic equipment, consult your local Panasonic dealer.
- To confirm this TV’s version of HDAVI Control ➔ [System Information] (p. 24)

Summary of VIeRA Link features

<table>
<thead>
<tr>
<th>Features</th>
<th>Connected equipment</th>
<th>DVD Player / Blu-ray Disc Player</th>
<th>HD Video Camera / LUMIX Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy playback</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Power on Link</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Power off Link</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Standby Power Save</td>
<td>○*2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Intelligent Auto Standby</td>
<td>○*2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>VIeRA Link Control</td>
<td>○*1</td>
<td>–</td>
<td>○*1</td>
</tr>
<tr>
<td>Speaker Selection</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Connection

DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIeRA Link function

- Use a fully wired HDMI compliant cable.
- Connect the equipment supporting VIeRA Link to the TV’s HDMI terminal via an HDMI cable.
- About HDMI cable for connecting Panasonic HD Video Camera or LUMIX Camera, read the manual of the equipment.
### VIERA Link (HDMI and Audio out connections)

<table>
<thead>
<tr>
<th>Features</th>
<th>Player theatre</th>
<th>Blu-ray Disc theatre</th>
<th>Amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy playback</td>
<td>○*3</td>
<td>○*3</td>
<td>–</td>
</tr>
<tr>
<td>Power on Link</td>
<td>○</td>
<td>○</td>
<td>–</td>
</tr>
<tr>
<td>Power off Link</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Standby Power Save</td>
<td>–</td>
<td>○*2</td>
<td>–</td>
</tr>
<tr>
<td>Intelligent Auto Standby</td>
<td>○*2 *4</td>
<td>○*2 *4</td>
<td>○*2</td>
</tr>
<tr>
<td>VIERA Link Control</td>
<td>○*1</td>
<td>○*1</td>
<td>–</td>
</tr>
<tr>
<td>Speaker Selection</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

#### Connection

- **To use Amplifier**
  - HDMI cable
  - Optical digital audio cable
- **To use Player theatre / Blu-ray Disc theatre**
  - Amplifier with VIERA Link function
  - Player theatre / Blu-ray Disc theatre with VIERA Link function

- Use a fully wired HDMI compliant cable.
- Connect the equipment supporting VIERA Link to the TV's HDMI terminal via an HDMI cable.
- Use the optical digital audio cable for audio output from the TV.

*1: Available with the equipment which has "HDAVI Control 2 or later" function.
*2: Available with the equipment which has "HDAVI Control 4 or later" function.
*3: While playing a disc.

### VIERA Link Control of compatible equipment

- Table below displays maximum number of compatible equipment that can be controlled by [VIERA Link Control]. This includes connections to equipment already connected to the TV.

<table>
<thead>
<tr>
<th>Type of the equipment</th>
<th>Maximum number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recorder</td>
<td>3</td>
</tr>
<tr>
<td>Player (DVD Player, Blu-ray Disc Player, HD Video Camera, LUMIX Camera, Digital Camera, Player theatre, Blu-ray Disc theatre, etc.)</td>
<td>3</td>
</tr>
<tr>
<td>Audio system (Player theatre, Blu-ray Disc theatre, Amplifier, etc.)</td>
<td>1</td>
</tr>
<tr>
<td>Tuner (Set top box, etc.)</td>
<td>4</td>
</tr>
</tbody>
</table>

*4: Except for watching a disc.
*5: If the connected equipment has "HDAVI Control 5" function, you do not have to use Optical digital audio cable. In this case, connect the equipment to the TV's HDMI2 terminal via an HDMI cable.
Operations

Preparations
- VIERA Link connection (p. 36)
- Set up the connected equipment. Read the manual of the equipment.
- Set [VIERA Link] to [On] in the Setup Menu. (p. 24)
- Set up the TV.

After connection, turn the equipment on and then switch the TV on.
Select the input mode from HDMI1 or HDMI2 (p. 11), and make sure that an image is displayed correctly.
This setup should be done each time when the following conditions occur:
  - for the first time
  - when adding or reconnecting equipment
  - when changing setup

Easy playback
Automatic input switching - When the connected equipment is operated, input mode is switched automatically.
- Image or sound may not be available for the first few seconds when input mode is switched.

Power on Link
Set [Power on Link] to [On] in the Setup Menu to use this function (p. 24)
When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when the TV is in Standby mode.)

Standby Power Save
Set [Standby Power Save] to [On] in the Setup Menu to use this function (p. 24)
The power consumption of the connected equipment in Standby mode is controlled higher or lower in synchronisation with the TV on / off state to reduce the consumption.
When the TV is set to Standby mode, the connected equipment is automatically set to Standby and the power consumption of the connected equipment is automatically minimised. When the TV is turned on, the connected equipment is still in Standby mode, but the power consumption is increased to make startup time fast.
- This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.
- This function works when [Power off Link] is set to [On].

Power off Link
Set [Power off Link] to [On] in the Setup Menu to use this function (p. 24)
When the TV is set to Standby mode, the connected equipment is also automatically set to Standby.
- This function will work even if the TV enters Standby mode automatically by auto power standby function.

Intelligent Auto Standby
Set [Intelligent Auto Standby] to [On] in the Setup Menu to use this function (p. 24)
When the TV is on, non-watched or non-used connected equipment goes into Standby mode automatically to reduce the power consumption. For example, when the input mode is switched from HDMI or when [Speaker Selection] is changed to [TV] (except for watching a disc).
- This function may not work properly depending on the connected equipment. If required, set to [Off].
VIERA Link Control

You can control some functions of the connected equipment with this TV remote control pointing at the TV’s signal receiver.

- If you cannot operate, check the settings and the equipment.

1. Display [VIERA TOOLS] and select [VIERA Link]

2. Select [VIERA Link Control]

3. Select the type of the connected equipment to access


- The displayed item may vary depending on the connected equipment.
- [Home Cinema] means Player theatre, Blu-ray Disc theatre or Recorder theatre.
- [Other] means Tuner set top box.

The menu of the accessed equipment will be displayed.
(Input mode will be changed automatically.)

4. Follow the operation guide to operate the menu of the equipment

- To display the operation guide

 OPTION

- For details of the operations for the connected equipment, read the manual of the equipment.
- If other manufacturers’ equipment is accessed, Setup / Contents Selection menu may be displayed.
- Available VIERA remote control buttons depend on the connected equipment.

**Note**

- Some operations may not be available depending on the equipment. In this case use its own remote control to operate the equipment.

**If multiple recorders or players are connected**

The number is given from the TV’s lower number of HDMI terminal connected to the same type equipment. For example, two recorders to HDMI1 and HDMI2, the recorder connected to HDMI1 is displayed as [Recorder1], and the recorder connected to HDMI2 is displayed as [Recorder2].

If you access non-VIERA Link equipment

The type of the connected equipment is displayed. Although you can access the connected equipment, you cannot operate it. Use its own remote control to operate the equipment.

Speaker Selection

You can control the theatre speaker with this TV remote control pointing at the TV’s signal receiver.

- If you cannot operate, check the settings and the equipment.

1. Display [VIERA TOOLS] and select [VIERA Link]

2. Select [Speaker Selection]

3. Set to [Home Cinema] or [TV]

[Home Cinema]: The sound is from theatre speakers. Player theatre, Blu-ray Disc theatre or Amplifier will be automatically turned on if it is in Standby mode.

- Volume up / down

 Mute

- The sound of TV speakers is mute. When the equipment is turned off, TV speakers will be active.

[TV]: TV speakers are active.

**Multi-channel sound**

If you want to enjoy the multi-channel sound (e.g. Dolby Digital 5.1ch) via an Amplifier, connect it with an HDMI cable and Optical digital audio cable (p. 36), and then select [Home Cinema]. If your Amplifier has “HDAVI Control 5” function, you only need to connect it with an HDMI cable to the TV’s HDMI2 terminal.
Technical Information

HDMI connection

This TV incorporates HDMI™ technology. HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment. HDMI-compatible equipment*1 with an HDMI or DVI output terminal, such as a DVD player, a set top box or game equipment, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

■ Applicable HDMI features
  ● Input audio signal: 2ch Linear PCM (sampling frequencies - 48 kHz, 44.1 kHz, 32 kHz)
  ● Input video signal ⇒ “Input signal that can be displayed” (p. 40)
  ● Match the output setting of the digital equipment.
  ● VIERA Link (HDAVI Control 5) ⇒ “VIERA Link” (p. 35)
  ● Content Type
  ● x.v.Colour™
  ● Audio Return Channel*2 (HDMI2 terminal only)

■ DVI connection

If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adaptor cable. When the DVI to HDMI adaptor cable is used, connect the audio cable to AV audio terminals.

  (Note)
  ● Audio settings can be made on [HDMI Input] in the Sound Menu. (p. 22)
  ● If the connected equipment has an aspect adjustment function, set the aspect ratio to “16:9”.
  ● These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
  ● Equipment having no digital output terminal may be connected to the input terminal of component or video to receive analogue signals.

*1: The HDMI logo is displayed on HDMI-compliant equipment.
*2: Audio Return Channel (ARC) is a function to send digital sound signals via an HDMI cable.
**Input signal that can be displayed**

### COMPONENT (AV) / HDMI terminal

<table>
<thead>
<tr>
<th>Signal name</th>
<th>COMPONENT</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>525 (480) / 60i, 60p</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>625 (576) / 50i, 50p</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>750 (720) / 60p, 50p</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>1,125 (1,080) / 60i, 50i</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>1,125 (1,080) / 60p, 50p, 24p</td>
<td>○</td>
<td></td>
</tr>
</tbody>
</table>

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

### Supported file format in Media Player

- Some files may not be played back even if they fulfill these conditions.
- Do not use two-byte characters or other special codes for file names.
- Connected devices may become unusable with this TV if the file or folder names are changed.

#### Photo

- **JPEG (.jpg / .jpeg)**
  - Image resolution (pixel): 8 × 8 to 30,719 × 17,279
  - Sub-sampling: 4:4:4, 4:2:2, 4:2:0
  - DCF and EXIF standards
  - Progressive JPEG is not supported.

#### Video

- **AVI (.avi)**
  - Video codec: H.264 BP/MP/HP, MPEG1, MPEG2, MPEG4 SP/ASP, VC-1, Windows Media Video Ver. 9
  - Audio codec: AAC, ADPCM, Dolby Digital, DTS core, HE-AAC, LPCM, MPEG Audio, MP3, WMA
  - Some subtitles or chapter functions may not be available.
  - WMA Pro and WMA Lossless are not supported.

- **MKV (.mkv)**
  - Video codec: H.264 BP/MP/HP, MPEG1, MPEG2, MPEG4 SP/ASP
  - Audio codec: AAC, Dolby Digital, DTS core, HE-AAC, MPEG Audio, MP3
  - Some subtitles or chapter functions may not be available.
  - WMA Pro and WMA Lossless are not supported.

- **ASF (.asf / .wmv)**
  - Video codec: MPEG4 SP/ASP, VC-1, Windows Media Video Ver. 9
  - Audio codec: AAC, Dolby Digital, HE-AAC, LPCM, MP3, WMA
  - Copy-protected files cannot be played back.
  - WMA Pro and WMA Lossless are not supported.

- **MP4 (.f4v / .m4v / .mp4)**
  - Video codec: H.264 BP/MP/HP, MPEG1, MPEG2, MPEG4 SP/ASP
  - Audio codec: AAC, Dolby Digital, HE-AAC, MPEG Audio, MP3
  - This TV supports this container recorded with Panasonic products. For details, read the manual of the products.
FLV (.flv)
Video codec: H.264 BP/MP/HP
Audio codec: AAC, MP3

3GPP (.3gp / .3g2)
Video codec: H.264 BP/MP/HP, MPEG4 SP/ASP
Audio codec: AAC, HE-AAC

PS (.mod / .mpg / .mpeg / .vob / .vro)
Video codec: H.264 BP/MP/HP, MPEG1, MPEG2, VC-1
Audio codec: AAC, Dolby Digital, HE-AAC, LPCM, MPEG Audio, MP3

TS (.mts / .m2ts / .tp / .trp / .ts / .tts)
Video codec: H.264 BP/MP/HP, MPEG1, MPEG2, VC-1
Audio codec: AAC, Dolby Digital, DTS core, HE-AAC, MPEG Audio, MP3

Subtitles
MicroDVD, SubRip, TMPlayer (.srt / .sub / .txt)
- The video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions.
- If there are more than one subtitles text files inside the same folder, they are displayed in the following order of priority: ".srt", ".sub", ".txt".

Music
MP3 (.mp3)

AAC (.m4a)
- Copy-protected files cannot be played back.

WMA (.wma)
- Copy-protected files cannot be played back.
- WMA Pro and WMA Lossless are not supported.

LPCM (.wav)

FLAC (.flac)

USB devices
- It is recommended to connect the USB device to the TV’s USB port directly.
- Some USB devices or USB HUB may not be used with this TV.
- You cannot connect any devices by using USB card reader.
- You cannot use two or more same kind of USB devices simultaneously except USB Flash Memory.
- Additional information for the devices may be on the following website. (English only)
  http://panasonic.net/viera/support

USB Flash Memory (for playing back in Media Player)
- USB Flash Memory format: FAT16, FAT32 or exFAT
- A USB HDD formatted on a PC is not guaranteed to work in Media Player.
- Data modified with a PC may not be displayed.
- Do not remove the device while the TV is accessing data. Otherwise this can damage device or TV.
- Do not touch the pins on the device.
- Do not subject the device to a high pressure or impact.
- Insert the device in the correct direction. Otherwise this can damage device or TV.
- Electrical interference, static electricity, or erroneous operation may damage the data or device.
- Back up the recorded data at regular intervals to prevent data deterioration, data damage or erratic operation of the TV. Panasonic is not liable for any deterioration or damage of recorded data.
FAQs

Before requesting service or assistance, please follow these simple guides to solve the problem. When an error message appears, follow the message’s instructions. If the problem still persists, contact your local Panasonic dealer or the authorised service centre.

White spots or shadow images (noise)
● Check the position, direction and connection of the aerial.
● Keep the space between the TV and RF cable.

Unable to receive TV signals
● Check the RF cable connection (p. 10).

Picture quality problem
● Check the settings of the Picture Menu.
● Set [Noise Reduction] and [MPEG Noise Reduction] to remove noise (p. 20).
● Check nearby electrical products (car, motorcycle, fluorescent lamp).
● Reset channels.
● Check that the output of the external equipment matches the input of the TV.

Unable to receive signals with a high-performance aerial
● Install an aerial individually for the TV and VCR (or use a splitter).

Interference or frozen / disappearing image in Digital TV
● Check [Signal Condition] (p. 23). If [Signal Quality] is displayed in red, check aerial.
● Try unplugging the mains plug for a few minutes and connecting it again.
● Due to the digital reception technologies involved, quality of the Digital TV signals may be relatively low in some cases, despite good reception of Analogue TV channels.

Sound quality problem
● Check the volume level or sound mute.
● Check connections and setting of external equipment.
● Ensure that [Speaker Selection] is set to [TV] (p. 38).
● Set the audio mode to [Mono]. (Analogue)

Picture or sound problems with HDMI connection
● Check the HDMI cable is connected properly.
● Turn the TV and equipment off, then turn them on again.
● Check an input signal from the equipment.
● Use equipment compliant with EIA/CEA-861/861D.
● Set the sound setting of the connected equipment to “2ch L.PCM”.
● Check the [HDMI Input] setting (p. 22).
● If digital sound connection has a problem, select analogue sound connection.

The TV does not switch on
● Check the mains lead is plugged into the TV and the socket outlet.

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. 9)
● 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 not to shine on the TV’s remote control signal receiver.

No image can be displayed
● Check the TV is turned on.
● Check the mains lead is plugged into the TV and the socket outlet.
● Check the correct input mode is selected.
● Check all required cables and connections are firmly in place.

Unusual image is displayed
● Try unplugging the mains plug for a few minutes and connecting it again.
● If the problem persists, initialise all settings. [Shipping Condition] (p. 24)

Unusual sound from the TV
● When the power is on, drive noise may be heard from inside the TV (not a sign of faulty operation).

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

Permanently lit spots on screen
● Due to production process involved in this technology this may result in some pixels which are permanently lit or unlit. This is not a malfunction.

Overcurrent error message appears
● The connected USB device might cause this error. Remove the device and try unplugging the mains plug for a few minutes and connecting it again.
● Check foreign objects are not inside the USB port.
Care and Cleaning

First, unplug the power cord plug from the wall outlet.

### Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty after cleaning up the dust, soak a soft, lint-free cloth in diluted, mild liquid dish soap (1 part mild liquid dish soap diluted by 100 times the amount of water), and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the surface may be adversely affected.

### Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in diluted, mild liquid dish soap and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the TV.
- If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off.
- Do not let articles made from rubber or PVC be in contact with the TV for long periods of time.

### Pedestal

Cleaning

- Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth.
- Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating.
- Note: If using a chemically-treated cloth, follow the instructions supplied with the cloth.
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

### Power cord plug

Wipe the plug with a dry cloth at regular intervals.
Note: Moisture and dust can lead to fire or electrical shock.
## Specifications

<table>
<thead>
<tr>
<th>TC-P42X60H</th>
<th>TC-P50X60H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>AC 110 - 120 V, 60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>211 W / 0.3 W</td>
</tr>
<tr>
<td>(Rated power / Standby power)</td>
<td></td>
</tr>
<tr>
<td><strong>Panel System</strong></td>
<td>Plasma Display panel</td>
</tr>
<tr>
<td><strong>Visible screen size</strong></td>
<td>107 cm / 42 inches</td>
</tr>
<tr>
<td>(diagonal)</td>
<td></td>
</tr>
<tr>
<td><strong>Number of pixels</strong></td>
<td>1,024 × 768</td>
</tr>
<tr>
<td><strong>Speaker Output</strong></td>
<td>20 W [10 W + 10 W] (10 % THD)</td>
</tr>
</tbody>
</table>
| **Operating Conditions** | Temperature: 0 °C - 40 °C  
Humidity: 20 % - 80 % RH (non-condensing) | Temperature: 0 °C - 40 °C  
Humidity: 20 % - 80 % RH (non-condensing) |
| **VIDEO IN** | RCA PIN (VIDEO, AUDIO-L, AUDIO-R) | RCA PIN (VIDEO, AUDIO-L, AUDIO-R) |
| **COMPONENT IN** | RCA PIN (Y, PB, PR, AUDIO-L, AUDIO-R) | RCA PIN (Y, PB, PR, AUDIO-L, AUDIO-R) |
| **HDMI IN 1/2** | TYPE A Connector | TYPE A Connector |
| **USB** | USB2.0 Type A connector  
DC 5V, Max. 500 mA | USB2.0 Type A connector  
DC 5V, Max. 500 mA |
| **DIGITAL AUDIO OUT** | PCM / Dolby Digital, Fiber Optic | PCM / Dolby Digital, Fiber Optic |
| **Dimensions** | | |
| **Including pedestal** | 1,007 mm × 657 mm × 231 mm | 1,184 mm × 757 mm × 266 mm |
| (W × H × D) | | |
| **TV Set only** | 1,007 mm × 615 mm × 81 mm | 1,184 mm × 716 mm × 81 mm |
| **Including pedestal** | 16.5 kg NET | 21.5 kg NET |
| **TV Set only** | 15.5 kg NET | 20.5 kg NET |

<table>
<thead>
<tr>
<th>TC-P42X60L</th>
<th>TC-P50X60L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>AC 110 - 220 V, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>211 W / 0.3 W</td>
</tr>
<tr>
<td>(Rated power / Standby power)</td>
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<td><strong>Panel System</strong></td>
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</tr>
<tr>
<td><strong>Number of pixels</strong></td>
<td>1,024 × 768</td>
</tr>
<tr>
<td><strong>Speaker Output</strong></td>
<td>20 W [10 W + 10 W] (10 % THD)</td>
</tr>
</tbody>
</table>
| **Operating Conditions** | Temperature: 0 °C - 40 °C  
Humidity: 20 % - 80 % RH (non-condensing) | Temperature: 0 °C - 40 °C  
Humidity: 20 % - 80 % RH (non-condensing) |
| **VIDEO IN** | RCA PIN (VIDEO, AUDIO-L, AUDIO-R) | RCA PIN (VIDEO, AUDIO-L, AUDIO-R) |
| **COMPONENT IN** | RCA PIN (Y, PB, PR, AUDIO-L, AUDIO-R) | RCA PIN (Y, PB, PR, AUDIO-L, AUDIO-R) |
| **HDMI IN 1/2** | TYPE A Connector | TYPE A Connector |
| **USB** | USB2.0 Type A connector  
DC 5V, Max. 500 mA | USB2.0 Type A connector  
DC 5V, Max. 500 mA |
| **DIGITAL AUDIO OUT** | PCM / Dolby Digital, Fiber Optic | PCM / Dolby Digital, Fiber Optic |
| **Dimensions** | | |
| **Including pedestal** | 1,007 mm × 657 mm × 231 mm | 1,184 mm × 757 mm × 266 mm |
| (W × H × D) | | |
| **TV Set only** | 1,007 mm × 615 mm × 81 mm | 1,184 mm × 716 mm × 81 mm |
| **Including pedestal** | 16.5 kg NET | 21.5 kg NET |
| **TV Set only** | 15.5 kg NET | 20.5 kg NET |
**TC-P42/50X60H**

<table>
<thead>
<tr>
<th>Receiving systems / Band name</th>
<th>DVB-T: 6 MHz VHF / UHF free-to-air TV broadcast reception for Colombia / Panama.</th>
<th>NTSC</th>
<th>Reception of broadcast transmissions and Playback from VCR or DVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving channels (Analogue TV)</td>
<td>VHF BAND</td>
<td>UHF BAND</td>
<td>CATV</td>
</tr>
<tr>
<td></td>
<td>2-13 (NTSC M USA)</td>
<td>14-69 (NTSC M USA)</td>
<td>1-125 (USA CATV)</td>
</tr>
</tbody>
</table>

**TC-P42/50X60L**

<table>
<thead>
<tr>
<th>Receiving systems / Band name</th>
<th>Digital TV: 6 MHz VHF / UHF free-to-air TV broadcast reception for Peru / Chile.</th>
<th>1. PAL-M</th>
<th>2. PAL-N</th>
<th>3. NTSC</th>
<th>Reception of broadcast transmissions and Playback from VCR or DVD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving channels (Analogue TV)</td>
<td>VHF BAND</td>
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<td>1-125 (USA CATV)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note**

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

Customer Service

Customer Service Directory

Obtain products information and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

http://www.lar.panasonic.com

Also you may contact us directly by our Contact Center:

Panama 800-PANA (800-7262)
Colombia 01-8000-94PANA (01-8000-947262)
Ecuador 1800-PANASONIC (1800-726276)
Costa Rica 800-PANA737 (800-7262737)
El Salvador 800-PANA (800-7262)
Guatemala 1-801-811-PANA (1-801-811-7262)
Chile 800-390-602
  From a cell phone: 797-5000
Venezuela 800-PANA-800 (800-7262-800)
Uruguay 0-800-PANA (0-800-7262)
Peru 0-800-00-PAN (0-800-00726)
Argentina 0800-333-PANA (0800-333-7262)
  0810-321-PANA (0810-321-7262)
Paraguay 800-11-PANA (800-11-7262)
Dominican Republic 809-200-8000
Information on Disposal in other Countries outside the European Union

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

Notice for Digital terrestrial broadcasting functions

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

Customer’s Record

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

Model Number ___________________________ Serial Number ___________________________.

Panasonic Corporation
Web Site:  http://panasonic.net/

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