# **Panasonic**

Model No.

TH-32LS600K TH-40LS600K TH-43LS600K

# Operating Instructions LED TV 32-inch model 40-inch model 43-inch model

# English

Thank you for purchasing this Panasonic product. Please read these instructions carefully before operating this product and retain them for future reference.

The images shown in this manual are for illustrative purposes only.

Some illustrations are presented as conceptual images and may be different from the actual products. Illustrations shown may be different between models and countries.

The illustrations for 32-inch model is used in this manual unless otherwise mentioned.



The Adopted Trademarks HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.





This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

WARNING: To reduce the risk of fire or electric shock.



# CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Panasonic does not guarantee operation and performance of peripheral devices made by other manufacturers; and we disclaim any liability or damage arising from operation and/or performance from usage of such other maker's peripheral devices.

# 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.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

- The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
- The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instruction.

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# **Safety Precautions**

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

# Mains plug and lead

# Warning

If you detect anything unusual, immediately remove the mains plug.

 Mains plug types vary between countries.



- This TV is designed to operate on AC 100 240 V, 50/60 Hz.
- Insert the mains plug fully into the socket outlet.
- Ensure that the mains plug is easily accessible.
- Disconnect the mains plug when cleaning the TV.
- Do not touch the mains plug with wet hands.



- Do not damage the mains lead.
  - Do not place a heavy object on the lead.



 Do not place the lead near a high temperature object.





- Do not pull on the lead. Hold onto the mains plug body when disconnecting the plug.
- Do not move the TV with the lead plugged into a socket outlet.
- Do not twist the lead, bend it excessively or stretch it.
- · Do not use a damaged mains plug or socket outlet.
- Ensure the TV does not crush the mains lead.
- Do not use any mains lead other than that provided with this TV.

# Take care

# Warning

 Do not remove covers and never modify the TV yourself as live parts are accessible when they are removed. There are no user serviceable parts inside.



 Do not expose the TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.



- Do not insert foreign objects into the TV through the air vents.
- Do not use an unapproved pedestal / mounting equipment. Be sure to ask your local Panasonic dealer to perform the setup or installation of approved wallhanging brackets.
- Do not apply strong force or impact to the display panel.
- Do not place the TV on sloped or unstable surfaces, and ensure that the TV does not hang over the edge of the base.



- This TV is designed for table-top use.
- Do not expose the TV to direct sunlight and other sources of heat.



# To prevent the spread of fire, keep candles or other open flames away from this product at all times



# ■ Dangerous part / Small object

# Warning

 This product contains possibly dangerous parts such as plastic bags, that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

# Pedestal

# Warning

Do not disassemble or modify the pedestal.

# Caution

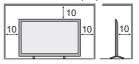
- Do not use any pedestal other than the one provided with this TV.
- Do not use the pedestal if it becomes warped or physically damaged. If this occurs, contact your nearest Panasonic dealer immediately.
- During setup, make sure that all screws are securely tightened.
- Ensure that the TV does not suffer any impact during installation of the pedestal.
- Ensure that children do not climb onto the pedestal.
- Install or remove the TV from the pedestal with at least two people.
- Install or remove the TV by the specified procedure.

# Ventilation

#### Caution

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

# Minimum distance (cm)



 Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.



 Whether you are using a pedestal or not, always ensure the vents at the bottom of the TV are not blocked and there is sufficient space to enable adequate ventilation.

# Built-in wireless LAN

## Caution

 Do not use the built-in wireless LAN to connect to any wireless network (SSID\*) for which you do not have usage rights. Such networks may be listed as a result of searches. However, using them may be regarded as illegal access.

\*SSID is a name for identifying a particular wireless network for transmission.

- Do not subject the built-in wireless LAN to high temperatures, direct sunlight or moisture.
- Data transmitted and received over radio waves may be intercepted and monitored.
- The built-in wireless LAN uses 2.4 GHz and 5 GHz frequency bands. To avoid malfunctions or slow response caused by radio wave interference when using the built-in wireless LAN, keep the TV away from other devices that use 2.4 GHz and 5 GHz signals such as other wireless LAN devices, microwave ovens, and mobile phones.
- When problems occur due to static electricity, etc., the TV might stop operating to protect itself. In this case, turn the TV off at the Mains power On / Off switch, then turn it back on.

# ■ Bluetooth® wireless technology

# Caution

• The TV use the 2.4 GHz radio frequency ISM band (Bluetooth®). To avoid malfunctions or slow response caused by radio wave interference, keep the TV away from the devices such as other wireless LAN devices, other Bluetooth devices, microwaves, mobile phones and the devices that use 2.4 GHz signal.

# Moving the TV

# Caution

Before moving the TV, disconnect all cables.

 Move the TV with at least two people. Support as shown to avoid injury by the TV tipping or falling.



# When not in use for a long time

# Caution

This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

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

# Use conditions

## Caution

• This appliance is intended for use in tropical climates.

# ■ Battery for the Remote Control

# Caution

- Incorrect installation may cause battery leakage, corrosion and explosion.
- Replace only with the same or equivalent type.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable batteries (Ni-Cd, etc.).
- Do not burn or break up batteries.
- Do not expose batteries to excessive heat such as sunshine, fire or the like.
- Make sure you dispose of batteries correctly.

# **Setting Up the TV**

# Supplied accessories

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

# **Operating Instructions**

# **Remote Control**

RC700P



# Batteries (AAA) × 2

 $\Rightarrow$  (p.5)



# Mini Jack Adapter

Adapter AV



# **Pedestal**



40-inch model Base
Assembly screws

A (ST4 x 20) x 4



# Note

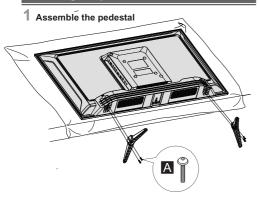
Illustrations shown may be different between models and countries.

# **Preparation**

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

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

# **Attaching the pedestal**

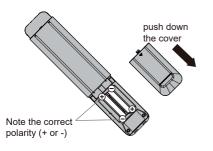


# Removing the pedestal from the TV

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

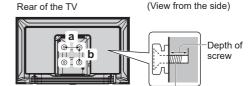
- 1 Lay the TV on a foam mat or thick soft cloth on a table.
- 2 Remove the assembly screws A from the TV.

# Inserting remote's batteries



# Wall mounting the TV (optional)

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



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

# ■ Holes for wall-hanging bracket installation

~ ~			
Model	а	b	
32-inch	100 mm	100 mm	
40-inch	200 mm	100 mm	
43-inch	200 mm	100 mm	

# Screw specification

Model	Truss	Depth of screw	
Model Type		Minimum	Maximum
32-inch	M4	8 mm	9 mm
40-inch	M6	10 mm	12 mm
43-inch	M6	10 mm	12 mm

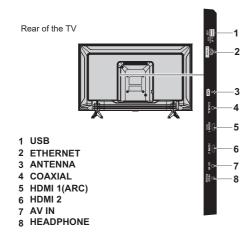
# Warning

- When optional accessories such as wall brackets etc. are used, always read and follow the manufacturer installation and usage instructions.
- Do not mount the unit directly below ceiling lights (such as spotlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- When installing wall brackets you must ensure the wall bracket is not electrically grounded to metal wall studs. Always ensure that there are no electrical cables, pipes etc. in the wall before you begin the wall bracket installation.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

# **Connecting the TV**

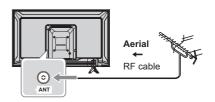
- Please ensure the TV is disconnected from the mains socket/ power point before attaching or disconnecting any RF/ AV leads.
- External equipment and cables are for illustrative purposes only and not supplied with this TV.
- Check the type of terminals and cable plugs are correct when connecting.
- When using an HDMI cable, use the fully wired one.
- Keep the TV away from electronic equipment (video equipment, etc.) or equipment with an infrared sensor. Otherwise, distortion of image/ sound may occur or operation of other equipment may be interfered.
- Also read the manual of the equipment being connected.

# **Terminals**

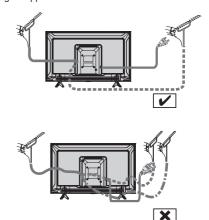


# Connections

#### Aerial

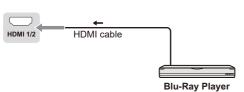


- Keep RF (aerial) cable away from the mains lead to avoid and minimise mains interference pickup.
- Do not place the RF cable under the TV.
- $\,^{\circ}$  An aerial, correct cable (75  $\Omega$  coaxial) and correct terminating plug are required to obtain optimum quality picture and sound.
- If a communal aerial system is used, you may require the correct connection cable and plug between the wall aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct aerial system for your particular area and the accessories required.
- Any matters regarding aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the customer.
- If the aerial is placed in the wrong location, interference might happen.



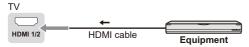
# **Blu-Ray Player**

TV

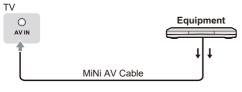


# AV / Game equipment

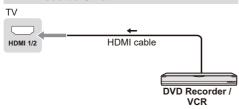
# ■ Using HDMI terminal



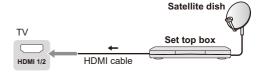
# Using AV terminals



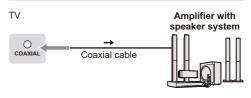
# **DVD Recorder / VCR**



# Set top box

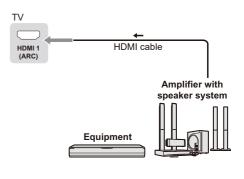


# Speaker system



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

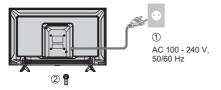
# **Amplifier**



 Use HDMI1 to connect the TV to an amplifier which has ARC(Audio Return Channel) function. When you first turn on the TV, a series of steps will popup to guide you to setup your TV.

- These steps are not necessary if the setup has been completed by your local dealer.
- 1 Plug the mains plug into the socket outlet and turn on the TV.

It may take a few seconds before the screen is displayed.

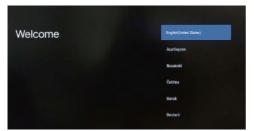


# Google - Initial Setup

When you turn on the TV for the first time, there will show a wizard to guide you to finish the following initial settings: Step 1: Select the menu language as you need.

**Note:** English(United States) is recommended.

Illustrations within this publication are provided for reference only.



Step 2: (Only for some countries) Select whether or not to use and Android device to setup the TV.





Note: If you don't want to use your Android device to setup the TV, you will skip to Step 3. If you want to use your Android device to setup the TV, please turn on the Bluetooth functions of your Android phone, then find and open "Google" application on your phone. Follow the instruction tips to set device.

**Step 3:** Select whether or not to connect your TV set to the Wi-Fi network.

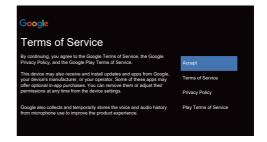


**Note:** If you have connected the TV to the WI-FI network, it will check for updates like Google service updates and so on. Then please select whether or not to sign in to your Google account.

**Step 4:** Sign in to get new apps, recommendations, movies, the Assistant, and more from Google.



**Step 5:** Read to accept the Google terms of service and privacy policy.



# **Initial Setting**

Initial setup involves selecting all the settings required to be able to search for and store all the analogue channels you can receive.

Make sure that the television is switched on and follow all the steps in turn specified hereafter.

The first time you switch the set on, the Initial Setup wizard opens, which guides you through the initial setup process.

# Step 1: Environment

Press ▲/▼ to select your environment. Then press OK to enter next step.

Home Mode: You Would be able to view the standard settings for Picture and sound modes.

Shop Mode: You can enjoy enhanced setting for Picture and Sound modes.

Note: Picture mode setting will not be accessible when you select Shop Mode.

# Step 2: Where are you?

Press ▲/▼ to select your Country/Region.Press OK to confirm and move to next step.

# Step 3: Terms & Conditions

Use ▲/▼ to read Terms & Conditions, then pressOK to confirm and move to next step.

# Step 4: Channel installation

Use **▲/▼** to select Tunner mode: Antenna, Cable and etc; Type:Digital, Analogue and All, then pressOK to confirm and move to next step.

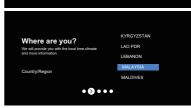
# Step 5: Please check settings

When all setup is done, the [Please check settings] interface displays on the screen, and press OK to finish the initial setup. You can also go back to former step and make any changes by using \ button.

Step 1:

Home Environment Shop 0 . . . .

Step 2:



Step 3:



Step 4:

Step 5:





Setup is now complete and your TV is ready for viewing.

Note

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

# **Operating the TV**

# Using the remote control

# **Remote Control Functions**

POWER (1) (On/Off button) Turns the TV on or off

Most of your television's functions are available via the menus that appear on the screen. The remote control supplied with your set can be used to navigate through the menus and to configure all the general settings.



PICTURE .	To enter the picture mode.
OFF TIMER (4)	To enter the sleep timer.
INPUT ⊕	To enter source selection interface
NETFLIX	Goes to the NETFLIX homepage
► YouTube	Goes to the YouTube homepage
prime video	Goes to the prime video homepage
AUDIO LINK	Goes to the AUDIO LINK homepage
Google Play	Goes to the Google Play homepage
<b>APPS</b>	To select the apps
Colour buttons	Performs multiple operations which correspond to the operation guide displayed on the menu screen
MENU	To open the settings menu
	Goes to the smart TV homepage
台	Press to display the electronic programme guide
i	Display to the information
EXIT 🗶	To exit the program
OK	Confirms your selection.
<b>▲/▼</b> <b>◄/►</b>	(up, down, left and right direction buttons) Highlights different items in the menu system and adjusts the
	menu controls.
BACK ←	Exit the menu and return to the previous menu
OPTION	Displays the options menu of selected functions
FAV	To enter the channel list
•3.	(Mic) (Available only when the network connection is normal.)
	To open the apps,move the apps or remove from favorites
*	To fast backward
<b>&gt;</b>	To play
<b>&gt;&gt;</b>	To fast forward
	To end the running program
II	To pause
	Start recording

Increases or decreases the volume

To mute and un-mute the sound

To show the text

To show the subtitles

MUTE 战

TEXT (■

STTL €

Channel up / down

0~9 Select the digital key number

MEDIA PLAYER To enter the media player

AD Audio description





# How to Pair Remote Control with the TV

This is a Bluetooth remote control, and before using it, please pair it with the TV firstly. The following steps are for your reference:

**Step 1:** Press  $\triangle$  button to enter the home page.

Step 2: Press • button to enter the "RC pairing".

**Step 3:** Follow the "Settings tips page", Press **OK** and  $\bigcirc$  together.

**Step 4:** The screen will display "Pairing...", Pair finished the screen will display "Success!".

NOTE:If you wait more than 2 minutes and it can't pair,

please repeat the above steps for pairing again.

If you want to unpair the Bluetooth remote, As follow:

Step 1: Press button to enter the home page.

Step 2: Press ▲/▼ ◀/▶ to choose ② ,and then press

Step 3: Press ▼ to select "Remotes & Accessories" and then to chooe

the Bluetooth remote name to enter next steps.

Step 4: Press unpair and then choose OK button.

# ■ When remote control does not respond

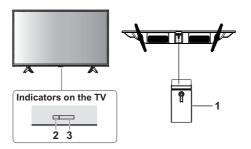
 Press and hold the button as shown below for 3 seconds to reset remote control.





Aim remote control reception and unpair by following below.
 Home > Settings > Remotes & accessories > RCU03 > Unpair

# Using the TV controls



# 1 Power On /Power Off

- The TV is off, short press the button to turn on the power.
- The TV is on, short press the button, the virtual button will display as shown below.



- When the virtual button appears, press the button briefly to switch the button key functions.
- When the virtual button is present, press the button long enough (for more than 1 second), can perform
  the following functions.
- Power off
  To turn Off the apparatus completely, you must pull the mains plug out of the mains socket.
- Next channel
- Previous channel
- Volume increase
- Volume reduction
- Input source
  Long press display input source option, release when the cursor jumps to the source to be switched.

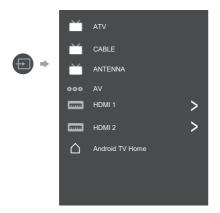
# 2 Power LED

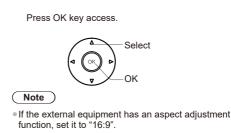
- Red: Standby
- · Green: On

# 3 Remote control signal receiver

# Watching External Inputs

- 1 Connect the external equipment. ⇒ (p. 6 7)
- 2 Display the [Input] menu, then select the input of the connected equipment.





# **Using Homepage - Apps**

**Note:** This manual is for common use. Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. And for some models, certain options are not available.

You can select all the features from homepage.

Press \(\chi\) to display homepage.

Press ▲/▼/◄/▶to select icons from the screen list.

Press **OK** to enter each option.

To exit the APP, press  $\leftarrow$  or  $\triangle$ .

Google Assistant: Click to interact with Google Assistant of the TV.

Notifications: Remind you of system-critical information, such as low disk space,

Google sign in or account errors, network connectivity issues, etc.

Input: Select the input source.

Settings: Access the system setting.

Apps: Show the list of favorite applications, or access the application center. Customize channels: Add and remove channels from your Home screen.

#### Note:

- 1) The functions and contents of "Home Page" may vary by different countries or models.
- Before using network functions in home page like network applications and so on, please connect the TV to the network firstly.
- 3) Icon copyrights are owned by the application providers.

# Using the Menu Functions

# **Using Quick Access Menu**

Note: Some of the functions might be unavailable in certain sources. And for some models, certain options are not available.

This section explores the menus and settings of your TV. Each menu is outlined and detailed to help you get the most from your TV. To access the menu system:

- In TV mode, press menu on the remote control to display the quick access list.
- Press ▲/▼ to select the desired item, then press
   OK to open the corresponding submenu.
- In submenu, use ◀/▶ and OK buttons to make the adjustments, or use ▲/▼ to select an item, use OK to enter and operate according to the on-screen display or guide.
- 4. Press to return to the previous menu.

# Menu

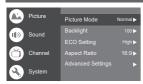
**Picture:** Enter to adjust picture mode or advanced settings. **Sound:** Select this option to set the sound adjustments.

Channel: Select this option to adjust the channel.

**System:** Select this option to adjust the settings.



# **Picture**



**Picture Mode:** To select the mode of Normal, Dynamic, Filmmaker, Sport, Game and Custom.

Backlight: Select the level of 0-100.

ECO Setting: Select the Off, Low and High.

**Aspect Ratio:** 

Displays the [Aspect Ratio] screen. Follow the operation guide to select the mode. [16:9] /[4:3]/ Auto / Original.

# Advanced Setting:

Color Temperature:Select the Normal,Warm,Cool. Dynamic Contrast:Select ON or OFF.

HDMI PC/ AV Mode: Select Video. PC and Auto

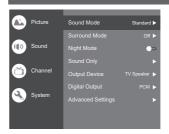
Overscan: Select ON or OFF

Noise Reduction: Select Off, Low, Middle, High and Auto.

Picture Reset:To reset the picture.

Gamma: Select 2.2 or 2.4.

# Sound



**Sound Mode:** Select the mode of Standard, Speech,

Music, Stadium and User.

Surround Mode: Select OFF, Pure Sound and Surround.

Night Mode: Select ON or OFF.

Sound Only: Select it and the TV screen will turn off in

10 seconds.

Output Device: Select TV Speaker, SPDIF and

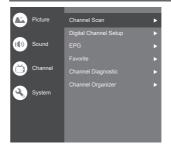
HDMI-ARC.

Digital Output: Select the PCM, ByPass and Auto.

# **Advanced Settings:**

- 1.DAC-4 Dialogue Enhancer
- 2.DAC-4 Dialogue Enhancer Level
- 3.Balance
- 4. Digital Audio Delay (ms)
- 5.Digital Audio Volume
- 6.Sound Reset

# Channel



Note: This function is only available in TV mode.

Channel Scan: Allows you to scan for all available analog and digital channels.

# Digital Channel Setup:

To select the option to adjust the Subtitle Setup, Teletext Setup, Audio Setup, LCN, Auto Service Update, Update Scan(Auto Scan).

# EPG:

Press OK/▶ to enter the Program Guide menu.

#### Favorite:

Setup favorite channel list.

# **Channel Diagnostic:**

Press OK/ ▶ to display some signal information on current digital channel, such as signal strength, Frequency, etc.

# **Channel Organizer:**

This option allows you to organize channels.

# System



# **HDMI CEC Settings:**

CEC control: To select on or off.
Device Auto Power Off: To select on or off.

TV Auto Power On: To select on or off.

CEC Device List: Turn devices on and select [Enable] to enable control of HDMI devices.

Sleep Timer: To select 15min, 30min, 45min, 60min, 90min, 120min or off.

**Idle TV Standby:** To select After 1 hour of inactivity, After 2 hour of inactivity, After 4 hour of inactivity, After 24 hour of inactivity or off.

TV Placement: To select Desktop and Wallmount.

**Environment:**To select Home and Shop.

Shop Mode: To select E-Sticker.

# Settings:

1.Lock: Click and lock the TV.

2.Power: Turn the Wake On Network and Network Standby on or off.

3.Recording Storage: Put the storage device and record the storage.

4.OSS License: The content about oss license.

**Software update:** To select off, once and Always. (This function is only for OAD)

# The input

Press → then press ▲/▼ to select your desired source, and then press OK to confirm.



# Channels setup (Analogue)

Analogue setup: Select ATV and enter.

- Analogue Auto Tuning: Press OK to start the automatic search process. The search may take a few minutes.
- Analogue Manual Tuning: Press OK to enter the interface.

Press▲/▼ to set program, Audio system or color system item, then Press▲/▼select frequency and press OK to search channel

search channel.
- Teletext Setup: Press OK and then use ▲/▼ to select preferred teletext.

# **Digital Cable Tuning:**Select Cable and enter.

Auto tuning: Press OK to start the automatic search process. The search may take a few minutes. During the process, you can press Back and choose YES to exit .

Manual Tune: Select the channel number and start to scan I CN: Select on or off

Auto service Update: Select on or off.

# Digital Antenna Tuning: Select Antenna and enter.

Auto Scan: Press OK to start the automatic search process. The search may take a few minutes. During the process, you can press Back and choose YES to exit.

Manual Scan: Select the channel number and start to scan

Press MENU button, then select Channel and press OK to enter Digital Channel setup, press OK to select Subtitle Setup.

Subbtitle Setup:

(1)Subtitle Setting:Include off,Basic,Hearing impaired.

(2)Primary Preferred Language:Press OK and then use

▲/▼ to select Primary Preferred Language.

(3)Secondary Preferred Language: Press OK and then use

▲/▼ to select Sencond Preferred Language.

Press MENU button, then select Channel and press OK to enter Digital Channel setup, press OK to select Teletext Setup.

Teletext Setup: Press OK and then use ▲/▼ to select preferred teletext or Decoding Page Language.

Press MENU button, then select Channel and press OK to enter Digital Channel setup, press OK to select Audio Setup. Audio Setup:

(1)Audio Description:Include Off and On.

(2)Audio Description Mixing Level:Press OK and then use ◀/▶ to set Audio Description Mixing Level.

(3)Audio Type: You can set the audio type.

(4)Primary Preferred Language:Press OK and then use

▲/▼ to select Primary Preferred Language.

(5)Secondary Preferred Language:Press OK and then use

▲/▼ to select Sencond Preferred Language.

LCN: Select on or off.

Auto service Update: Select on or off.
Update Scan(Auto Scan):Include Off and On.

# **Using Media Player**

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

- The picture may not appear correctly on this TV depending on the digital cameras used.
- Display may take some time when there are many files and folders in the USB Flash Memory.
- Partly degraded files might be displayed at a reduced resolution.
- The folder and file names may be different depending on the digital camera used.

# Inserting / Removing the USB Flash Memory



# Starting Media Player

# 1 Insert the USB Flash Memory.

# 2 Select the mode.



[DOCUMENT]: Displays the thumbnail of all documents in the USB Flash Memory.

[PHOTO]:Displays the thumbnail of all photos in the USB Flash Memory.

**IMUSIC1:** Displays the thumbnail of music folders in the USB Flash Memory.

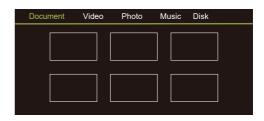
**IVIDEO1:** Displays the thumbnail of video titles in the USB Flash Memory.

[DISK]: Displays the thumbnail of all document in the USB Flash Memory.

# [Contents Display]

# Follow the operation guide to perform available operations.

When the cursor stavs on the icon.it displays the information of the highlighted content.



#### Document:

- 1. Select Document icon.
- 2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
- 3. Use OK key to see more option: ZOOM+, ZOOM-.
- 4. Press Return key of remote to Stop playing.

#### Video:

- 1. Select Video icon, then press OK button to view movie file.
- 2. Press Up, Down, Left or Right direction button to select
- your desired file and press OK to Play.

  3. While playing a Video, press OK Menu of remote to display the play console. For the Play console, Press Ok key of remote to Play and Pause the video file.Left key of remote to Fast backward.Right key of remote to Fast forward.
- 4. Use OPTION key to see more option: Photo scale, Looping mode, Subtitle, Subtitle code, Audio track, information and
- 5. Press Return key of remote to Stop playing and Press Return to Exit.

# Photo:

- 1. Select Picture icon, then press OK button to view the picture.
- 2. Press Up, Down, Left or Right direction button to select your desired picture file and press OK to show.
- 3. While showing picture, press OK to display the play console. For Previous and Next use remote left and Right key.
- 4. Use OK key to see more option: Left rotation, Right rotation, ZOOM+, ZOOM-, Manual play/Auto play, Information, Play mode, Play interval, BGM:on or off.

- 1. Select Music icon, then press OK button to listen to Music.
- 2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
- 3. The Play console includes Previous, Play/Pause,Fast backward/Fast forward,Next.

Press OPTION key to see PlayList.

4. Press Return key of remote to Stop playing.

## Disk:

- 1. Select Disk icon, then press OK button to choose folder.
- 2. Press Up, Down, Left or Right direction button to select your desired file and press OK to Play.
- 3. Press Return key of remote to Stop playing.

# Additional Information

# Auto power standby function

The TV will automatically go into Standby mode in the following conditions:

- No signal is received for 15 minutes.
- [Sleep timer] is active in the [System] menu (p. 15).

# Input signal that can be displayed

Signal name	HDMI
525 (480) / 60i, 60p	0
625 (576) / 50i, 50p	0
750 (720) / 60p, 50p	0
1,125 (1,080) / 60i, 50i	0
1,125 (1,080) / 60p, 50p, 24p	0
2,250 (2,160) / 60p, 50p, 24p	0

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

# **HDMI** connection

This TV incorporates HDMI™ technology. HDMI (high-definition multimedia interface) is the world's first complete digital consumer AV interface complying with a non-compression standard.

HDMI allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.

#### 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. 18)
    Match the output setting of the digital equipment.

# **USB Flash Memory**

For playing back in Media Player Format: FAT32

Compliance:

Supports only USB1.1 or USB2.0 standard. Maximum USB capacity supported is 1TB.

#### Note

- Data modified with a PC may not be displayed.
- Do not remove the device while the TV is accessing data. Otherwise this can damage the device or TV.
- Do not touch the pins on the device.
- 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. Panasonic is not liable for any deterioration or damage of data or device during operations with the TV.
- It is recommended to connect the USB Flash Memory directly to the TV's USB port.
- Some USB devices or USB HUB may not be used with this TV.
- You cannot connect any devices by using USB card reader.
- Additional information for USB devices may be on the following website. (English only) http://panasonic.ip/support/qlobal/cs/tv/

# Supported file format in Media Player

# Image Decoder

JPEG; PNG; BMP; GIF

#### ■ Video Decoder

MPEG1/2/4; H.264; H.265; AVI; WMV; VP8; M-JPEG

# Audio Decoder

PCM; LPCM; MPEG1/2/4; AAC; WMA; AC3; EAC3; FLAC

# Subtitles

- 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 file inside the same folder, they are displayed in the following order of priority: ".srt", ".sub".

# Note

- Even if these conditions are fulfilled, some files may not play depending on how they are encoded.
- Do not use two-byte characters or other special codes for data.
- Connected devices may become unusable with this TV if the file or folder names are changed.

# **Troubleshooting**

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

If an error message appears, follow the message's instructions.

If the problem still persists, please contact your local Panasonic dealer for assistance.

#### Screen

# Red, blue, green or black spots on the screen

This is the characteristic of liquid crystal panels. The liquid crystal panel is built with very high precision technology. Occasionally, a few non-active pixels may appear on the screen as points of red, green, blue or black. This does not affect the performance of your TV and it is not a quality problem.

# Chaotic image, noisy.

- → Set [Noise reduction] in the [Picture] menu to remove noise (p. 14).
- Check nearby electrical products (car, motorcycle, fluorescent lamp).

# No image is displayed.

- → Check the settings of [Contrast] or [Brightness] in the [Picture] menu (p. 14).
- Check the TV is in AV mode. If the TV is in AV mode, check the selected input mode match the output of the external equipment (p. 13).

# Unusual image is displayed.

→ Turn the TV off with Mains power On / Off switch (p. 12), then turn it on again.

# Pictures from equipment connected via HDMI are unusual.

- → 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 (p. 18).
- → Use equipment compliant with EIA/CEA-861/861D.

#### Sound

# No sound is produced.

→ Check the sound mute setting (p. 14) and volume.

# Low level or distorted sound.

→ Sound signal reception may be deteriorated.

# Sound output via HDMI connection is unusual.

→ Set the sound setting of the connected equipment to "2ch L.PCM".

## General

# The TV goes into Standby mode.

This TV is equipped with auto power standby function (p. 18).

# The remote control does not work or is intermittent.

- → Replace the batteries (p. 5).
- → Point the remote control directly at the remote control signal receiver of the TV (within about 7 m and 30 degree angle).
- Situate the TV away from sunshine or block sources of bright light from shining on the remote control signal receiver of the TV.

# 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.

# The TV panel moves slightly when it is pushed with a finger.

# Clattered sound might be heard.

→ There is some flexibility around the panel to prevent damage. This is not a malfunction.

# Overcurrent error message appears.

- → The connected USB device might cause this error. Remove the device and turn the TV off with Mains power On / Off switch, then turn it on again.
- → Check foreign objects are not inside the USB port.

# **Maintenance**

First, remove the mains plug from the socket outlet.

# Regular care

- Gently wipe the surface of the display panel, cabinet and pedestal by using a soft cloth.
- Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may lead to fire or electrical shock.

# For stubborn dirt

First clean the dust on the surface. Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Wring the cloth and wipe the surface. Finally, wipe away all the moisture.

# Caution

- Do not use a hard cloth or rub the surface too hard as this could scratch the surface.
- Do not subject the TV's surfaces to water or detergent.
   Liquid inside the TV could lead to product failure.
- Do not subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

# Specifications

# **Specifications**

#### Model no.

32-inch model TH-32LS600K

**40-inch model** TH-40LS600K

43-inch model TH-431 S600K

#### Power source

AC 100 - 240 V, 50/60 Hz

# Power consumption (Rated power / Standby power)

32-inch model 50 W / 0.5W 40-inch model

75 W / 0.5W **43-inch model** 75 W / 0.5W

# Display panel

# Panel

LCD panel (LED backlight)

# Visible screen size (diagonal)

**32-inch model:** 80 cm **40-inch model:** 102 cm **43-inch model:** 108 cm

# Display resolution

32-inch model

1,366 (W) × 768 (H)

40-inch model

1920 (W) × 1080 (H)

43-inch model

1920 (W) × 1080 (H)

# Dimensions (W × H × D)

# 32-inch model

725.9 × 475.4 × 178.5 mm (With Pedestal) 725.9 × 430.8 × 81.7 mm (TV only)

## 40-inch model

903.6 × 565.0 × 214.5mm (With Pedestal) 903.6 × 520.2 × 85.3 mm (TV only)

# 43-inch model

966.7 × 608.4 × 218.8mm (With Pedestal) 966.7 × 566.7 × 88.6 mm (TV only)

# Mass

32-inch model

3.6 kg (With Pedestal) 3.5 kg (TV only)

40-inch model

5.9 kg (With Pedestal) 5.8 kg (TV only)

43-inch model

6.4 kg (With Pedestal) 6.3 kg (TV only)

#### Connection terminals

#### AV in

Mini, 1.0 V[p-p] (75  $\Omega$ )

# **HEADPHONE**

Mini, 130mV rms~ 150mV rms

# HDMI 1 / 2 input

TYPE A Connectors

#### USB

USB 2.0 DC 5 V. Max. 500 mA

# Sound

# Audio output

32-inch model

10 W (5 W + 5 W)

# 40-inch model

16 W (8 W + 8 W)

## 43-inch model

16 W (8 W + 8 W)

# Receiving systems / Band name

# 9 Systems

Sy	stems	Function
_	PAL B, G PAL I PAL D, K	Reception of broadcast
	SECAM B, G SECAM D, K	
6	PAL	Playback from Special VCR's or DVD
-	PAL 60 Hz/5.5 MHz PAL 60 Hz/6.0 MHz PAL 60 Hz/6.5 MHz	Playback from Special Disc Players and Special VCR's or DVD

# Receiving channels (Analogue TV)

#### VHF BAND

2-12 (PAL/SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z.) 1-12 (PAL/SECAM D)

# **UHF BAND**

21-69 (PAL G, H, I/SECAM G, K, K1) 28-69 (PAL B AUST.) 13-57 (PAL D, K)

# **Aerial input**

VHF / UHF

# Operating conditions

# Temperature

0 °C - 45 °C

# Humidity

20 % - 80 % RH (non-condensing)

#### Note

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

# **Built-in wireless LAN**

# Standard compliance and Frequency range

IEEE 802.11 a/b/g/n/ac 2.4~2.5GHz and 5.15~5.825GHz

#### Security

Support for WPA/WPA2

# **Built-in Bluetooth**

Bluetooth V5.0 2.4~2.485GHz

# **Oss License**

This product incorporates the following software:

- (1) The software developed independently by or for Panasonic Entertainment & Communication Co., Ltd.,
- (2) The software owned by third party and licensed to Panasonic Entertainment & Communication Co., Ltd.,
- (3) The software licensed under the GNU General Public License, Version 2.0 (GPL V2.0),
- (4) The software licensed under the GNU LESSER General Public License, Version 2.1 (LGPL V2.1), and/or
- (5) Open source software other than the software licensed under the GPL V2.0 and/or LGPL V2.1.

The software categorized as (3) - (5) are distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. Please refer to the detailed terms and conditions thereof [system > settings > Oss License]

At least three (3) years from delivery of this product, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0, LGPL V2.1 or the other licenses with the obligation to do so, as well as the respective copyright notice thereof.

Contact Information: osd-cd-request@gg.jp.panasonic.com

# 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.

# **Customer's Record**

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

Model Number	
Serial Number	

# Panasonic Entertainment & Communication Co., Ltd.

English 72-LS600K-X41Z1

Web Site: http://www.panasonic.com