Panasonic

Model No. Número de modelo

TC-P42G25

TC-P46G25

TC-P50G25

TC-P54G25

Operating Instructions

42"/46"/50"/54" Class 1080p Plasma HDTV (41.6/46.0/49.9/54.1 inches measured diagonally)

Manual de instrucciones

Televisión de alta definición de 1080p y clase 42"/46"/50"/54" de Plasma (41,6/46,0/49,9/54,1 pulgadas medidas diagonalmente)



For assistance (U.S.A./Puerto Rico), please call: 1-877-95-VIERA (958-4372) or visit us at www.panasonic.com/contactinfo

For assistance (Canada), please call:

1-866-330-0014

or visit us at www.vieraconcierge.ca

Para solicitar ayuda (EE.UU./Puerto Rico), llame al:

1-877-95-VIERA (958-4372) ó visítenos en www.panasonic.com/contactinfo



Quick Start Guide

► See page 8-17

Guía de inicio rápido

► vea la página 8-17



VIETACAST











English

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.

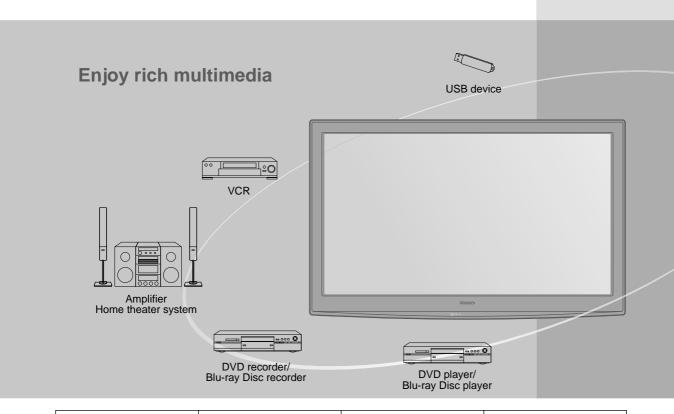
Español

Gracias por su decisión de comprar este producto marca Panasonic. Lea estas instrucciones antes de utilizar su televisor y guárdelas para consultarlas en el futuro. Las imágenes mostradas en este manual tienen solamente fines ilustrativos.



TQB2AA0585

Experience an amazing level of multimedia excitement





VIERA Link™ is a trademark of Panasonic Corporation.

VIECA CAST

VIERA CAST™ is a trademark of Panasonic Corporation.

S XC

SDXC Logo is a trademark of SD-3C, LLC.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.

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

SD memory card Personal computer Camcorder Set Top Box



This product qualifies for ENERGY STAR in the "Home Use" setting and this is the setting in which energy savings will be achieved. Any modifications to the "Home Use" setting or other factory default settings could result in greater energy consumption beyond levels that meet ENERGY STAR qualifications.

HDAVI Control™ is a trademark of Panasonic Corporation.



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Please read before using the unit

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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.





The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

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.
- Keep these instructions.
- 3) Heed all warnings.
- Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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.

- 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.



- 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/CAUTION



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 (TC-P42G25, TC-P46G25, TC-P50G25) TY-WK5P1RW (TC-P54G25)

- 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 electric 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 symptom persists, have the TV serviced by a qualified authorized technician.

■ AC Power Supply Cord

To prevent fire or electric shock:

- The Plasma TV is designed to operate on a 120 V AC, 60 Hz 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 adaptors 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.



- 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 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (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

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 to avoid injury by the TV tipping or falling.



Safety Precautions (Continued)



▲WARNING

CEA CHILD SAFETY NOTICES: Flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations. Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and may cause personal injury or even death.

The consumer electronics industry (of which Panasonic is a member) is committed to making home entertainment enjoyable and safe. To prevent personal injury or death, be sure to follow the following safety guidelines:

TUNE INTO SAFETY:

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use
 of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on "larger than life" flat panel displays. Care should be taken to install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they
 cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure the wall where you are mounting the display is appropriate. Some wall mounts are not
 designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure,
 contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

Panasonic recommends that a qualified installer perform the wall-mount installation. See page 4.

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

FCC Declaration of Conformity

Model No. TC-P42G25, TC-P46G25, TC-P50G25, TC-P54G25

Responsible Party: Panasonic Corporation of North America

One Panasonic Way, Secaucus, NJ 07094

Contact Source: Panasonic Consumer Electronics Company

1-877-95-VIERA (958-4372)

email: consumerproducts@panasonic.com

CANADIAN NOTICE:

For Model TC-P42G25, TC-P46G25, TC-P50G25, TC-P54G25 This Class B digital apparatus complies with Canadian ICES-003.

Notes

■ 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.





To prevent the "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 61)

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo
 Video game
 Computer image

■ 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.

Accessories/Optional Accessory

Accessories

Check you have all the items shown.



Transmitter

N2QAYB000486



- ☐ Batteries for the Remote Control Transmitter (2)
 - AA Battery



 \square AC cord



□ Pedestal

- TBLX0146 (TC-P42G25)
- TBLX0157 (TC-P54G25)
- TBLX0147 (TC-P46G25, TC-P50G25)
- ☐ Operating Instructions
- ☐ VIERA Concierge and Quick Start Guide
- ☐ Product Registration Card (U.S.A.)



How to assemble (p. 9)

Optional Accessory Wall-hanging bracket (angle)

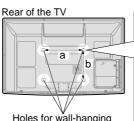
TY-WK4P1RW (for 42"/46"/50")
 TY-WK5P1RW (for 54")



a: 15.7" (400 mm) (for 42"/46"/50") 19.7" (500 mm) (54")

b: 11.8" (300 mm)

Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.



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

Depth of screw: minimum 0.59" (15.0 mm), maximum 1.18" (30.0 mm)

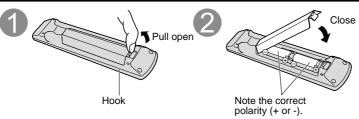
M8

(View from the side)

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.

Installing the remote's batteries



Caution

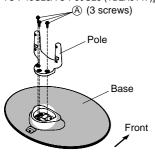
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
 - Do not mix old and new batteries.
 - Do not mix different battery types (such as alkaline and manganese batteries).
 - Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.

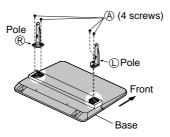
Attaching the pedestal to TV

■Assembling the pedestal

- Fix securely with assembly screws A.
- Tighten screws firmly.
 [TC-P42G25 (TBLX0146)/
 TC-P46G25/TC-P50G25 (TBLX0147)]

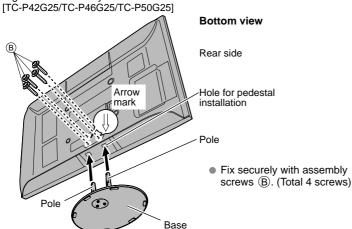
[TC-P54G25 (TBLX0157)]

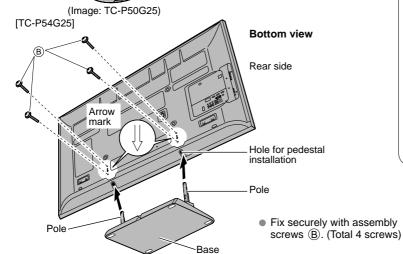




■Set-up

- Carry out work on a horizontal and level surface.
- Tighten screws firmly.





Accessories

Assembly screws



XYN5+F18FN (for 42"/46"/50") M5 × 18 (Silver) (3) XYN5+F25FN (for 54") M5 × 25 (Silver) (4)

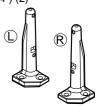


THEL080N (for 42")
THEL079N (for 46"/50")
THEL073N (for 54")
M5 × 30 (Black) (4)

Pole (for 42"/46"/50") (1)



Poles (for 54") (2)



• ① or ® is printed at the bottom of the poles.

Base (1) (for 42"/46"/50")



(for 54")



Accessories/Optional Accessory (Continued)

Attaching the pedestal to TV (continued)

(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 other TV and displays.

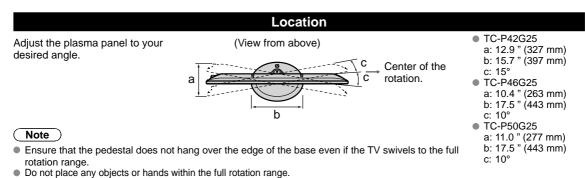
Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

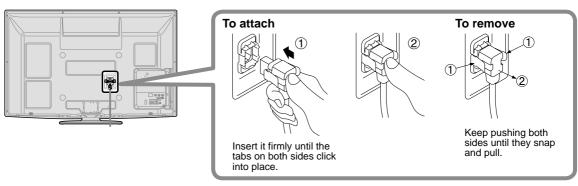
 If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

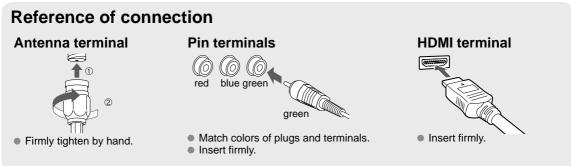
During set-up, make sure that all screws are securely tightened.

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.



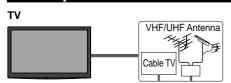
AC cord connection





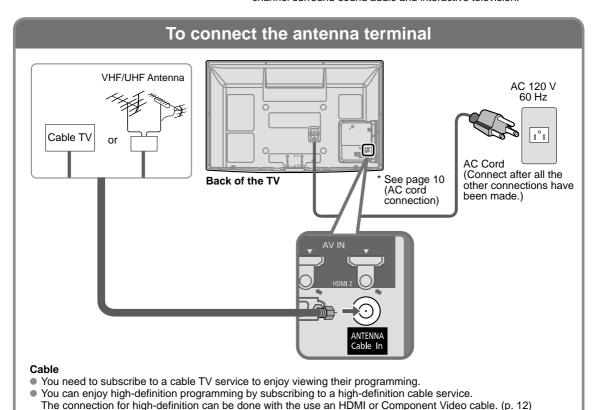
Basic Connection

Example Connecting Antenna (To watch TV)



VHF/UHF Antenna

- NTSC (National Television System Committee): Conventional broadcasting
- ATSC (Advanced Television Systems Committee):
 Digital TV Standards include digital high-definition television (HDTV),
 standard-definition television (SDTV), data broadcasting, multi channel surround-sound audio and interactive television.



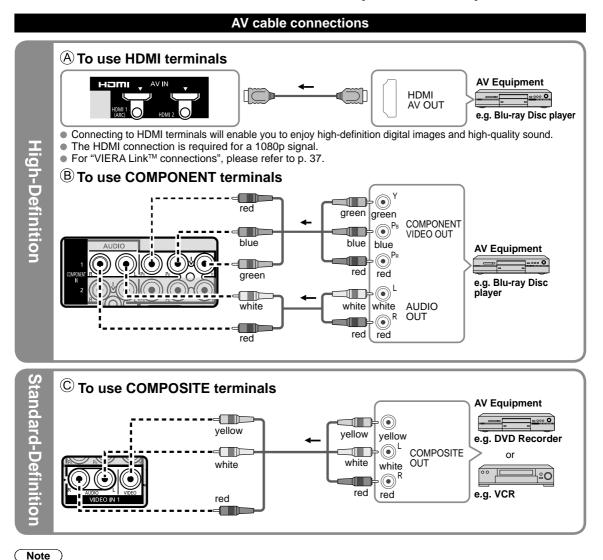
Note

Not all cables and external equipment shown in this book are supplied with the TV.

To view high-definition programming select the correct video input. (p. 30)

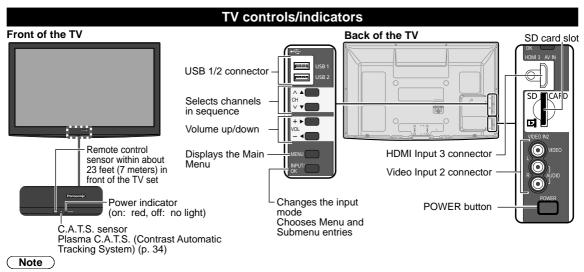
- For more details on the external equipment's connections, please refer to the operating manuals for the equipment.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com www.panasonic.ca

Basic Connection (Continued)

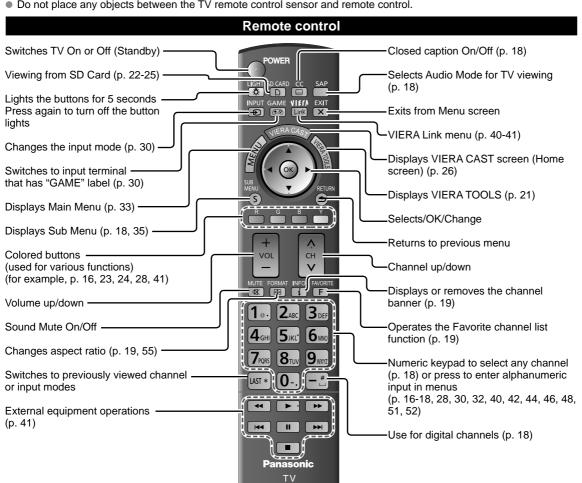


• For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

Identifying Controls

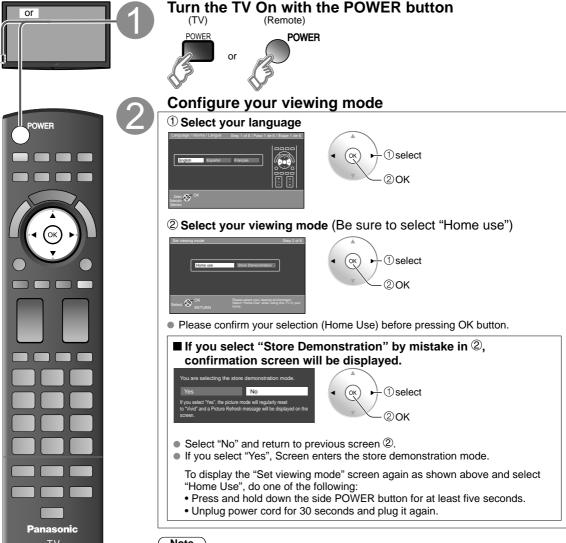


- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.



First Time Setup

First time setup screen is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 35) is set to "No".



Note

- RETURN
- is not available on ② ①.
- EXIT is not available on ②.
- When you have used ② to turn the TV off, the next time you turn the TV on the "Language" settings will be displayed.
- If you use any other step other than 2 to turn the TV off, or if you used the EXIT button to quit before completing the settings, the next time you turn the TV on "First time setup" will not be automatically displayed.
 - The settings up to that point are saved.
 - You can reset the settings using "First time setup". (p. 35)
- To change the setting (Language, ANT/Cable setup, Input labels, Clock) later, go to the Menu screen (p. 35)



■ Press to return to the previous screen

Panasonic

ΤV



 About broadcasting systems

Analog (NTSC):

Conventional broadcasting

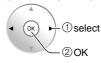
Digital (ATSC):

New programming that allows you to view more channels featuring high-quality video and sound

Auto channel setup (ANT/Cable setup)

1) Select the connected Antenna in terminal



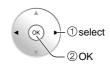


Not used: Go to 4 (Label inputs)

Select "Not used" when no wire is connected to the "Antenna/Cable" terminal.

- Typical when a Cable/Satellite box is connected to a TV input.
- Prevents accidental tuning to an unavailable signal.
- ② Select "Start"





Skip: Go to 4 (Label inputs)

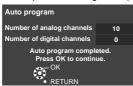
Start scanning the channels

(Available channels are automatically set.)



③ Complete the Auto program setup

Completion message is displayed when the Auto program scan is successfully completed.

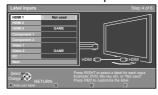




If there is no available channel, return to ③ - ① (ANT/ Cable setup). "Not used" will be selected.

Select the Input labels (Label inputs)

Select NEXT then press OK to go to the next step.







Follow the instructions on screen to complete the following operations.

Label: [BLANK] Not used/Blu-ray/DVD/DVD REC/HOME THTR/GAME/COMPUTER/ VCR/CABLE/SATELLITE/DVR/CAMERA/MONITOR/AUX/RECEIVER/MEDIA CTR/MEDIA EXT/OTHER

■ Operation of the EXIT button during "First time setup"

Press the button once to display confirmation screen. Press again to close confirmation screen.

[EXIT confirmation screen]



Yes → Exit "First time setup"
No → Return to the original screen.

First Time Setup (Continued)



■ Press to return to the previous screen RETURN $(\mathbf{2})$

Configure Network settings

1 Select the Network type



Set later: You can set in "Setup" menu later. Wireless (WiFi): Start "Wireless network" (p. 17)

2 Select the setting mode



Automatic: Press OK to start setup automatically.

Error screen is displayed when Network connection has failed.

Manual: Go to Manual setting.

Automatic

Start connection test



Connection test

Manual

Connection error

Manual setting



③ Complete "Network settings"

Helpful information is displayed when you successfully complete "Network settings".



■ Error screen



Manual

Retry: Go to "Start connection test" Set later: Go to 6

About wireless LAN

 Wireless LAN adapter and Access point need to be obtained separately. For the latest information on applicable LAN adapters, check the following website: http://panasonic.jp/support/global/cs/tv/

Check that the Access point supports WPS*.

(If it does not support WPS, the encryption key of the Access point is required when configuring settings.)

- Follow the instructions on the Access point setup screen and configure the appropriate security settings. For more details on setting of Access point, please refer to operating manual for the Access point.
- We recommend using 11n (5 GHz) for the wireless system between the wireless LAN adapter and Access point. Communication is also possible with 11a, 11b, and 11g (2.4 GHz), but the
- communication speed may be slower. If the wireless system of the Access point is changed, devices that could connect by wireless LAN may no longer be able to connect.
- When VIERA CAST, Network camera, or other device is using the network, do not disconnect the wireless LAN adapter.
- Keep the TV away from the following devices as much as possible: Wireless LAN, Microwaves, and other devices that use 2.4 GHz and 5 GHz signals. Otherwise, the TV failures such as malfunction may occur due to the radio wave interference.

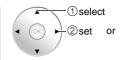
* WPS: Wi-Fi Protected Setup



Adjust the Clock (Set clock) Select NEXT then press OK to go to the next step.

■ Manual setting







Follow the instructions on screen to complete the following operations.

Auto setting



Mode

Manual: Adjust the clock manually (Year/Month/Day/Hour/Minute) Auto: The clock is adjusted automatically via Internet service. Only available when the TV is on a network. -->Set "Network settings" first.

Time zone

Select your time zone. (EST/CST/MST/PST/AKST/HST/NST/AST)

DST

Set DST (Daylight Saving Time) setting. (On/Off) On: Advances the clock one hour from the time it is set according to the time zone.



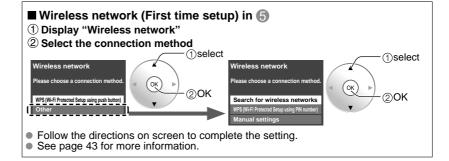
Complete First time setup

Completion message is displayed when you have successfully completed the First time setup.



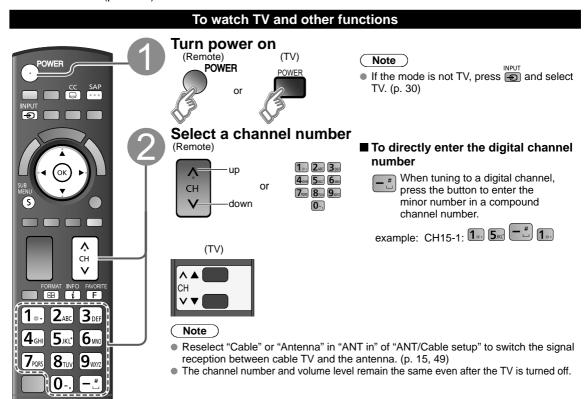
Press to return to the previous screen RETURN (\mathbf{z})

TV

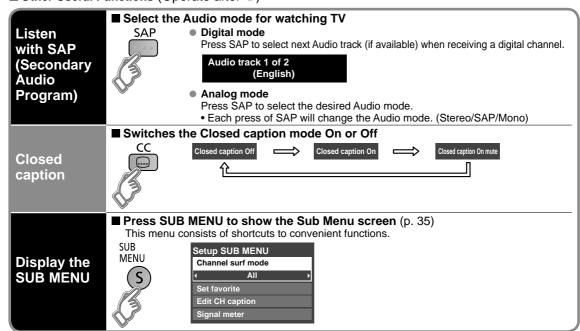


Watching TV

Basic connection (p. 11-12)



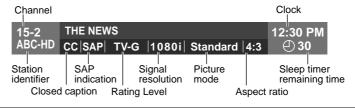
■ Other Useful Functions (Operate after ②)



■ Displays or removes the channel banner

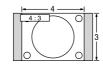
Information Recall





Change aspect ratio





- Press FORMAT to cycle through the aspect modes (p. 55)
 - 480i, 480p: FULL/JUST/4:3/ZOOM
 1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM

Call up a favorite channel



■ FAVORITE

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use the number buttons. (p. 20)

You can use the remote control keys to enter the alphanumeric characters.

Menu VIERA CAST setting Proxy address Proxy port 0 CC This is the address of the relay server that is connected to the target server instead of the relay server instea

Entering characters

G ABC → abc Y Delete		
Navigation area		
Select OK	1 4 :	
●RETU	JRN 🕌	

Switches input mode from alphabet to numeric.

- Characters are displayed as shown in the following table. ABC/abc 123 7 1 2 3 4 5 6 8 9 10 11 12 @ / 1 1 2 a/A b/B c/C 2 2 3 3 3 d/D e/E f/F 4 g/G h/H 4 4 i/I 5 I/L 5 5 j/J k/K 6 o/O 6 6 m/M n/N 7 7 7 p/P q/Q r/R s/S 8 t/T u/U v/V 8 8 w/W 9 x/X y/Y z/Z 9 9 .. 0 ? 0 0) & AST * \$ # % # Space
- You can also use a USB keyboard (not supplied) to enter the alphanumeric characters.
- Keyboard type (p. 35)

G ABC → abc Y Delete

You can operate non-character keys as remote control keys.

■ Key chart

Operate USB keyboard

Keyboard key	Remote key	Keyboard key	Remote key
UP/DOWN/LEFT/RIGHT	Cursor key	F4	Input
Enter	OK	F5	Channel Down(-)
BackSpace	Return (when you do not input character)	F6	Channel up(+)
0-9	0-9	F7	Volume Down(-)
F1	Menu	F8	Volume up(+)
F2	VIERA Tools	F9(Red)/F10(Green)/ F11(Blue)/F12(Yellow)	Color key
F3	Submenu	F11(Blue)/F12(Yellow)	(Red/Blue/Yellow/Green)

- For more details on setting and operation of the USB keyboard, please also read the operating manuals for the USB keyboard.
- Some keyboards do not have the key.

Watching TV (Continued)

Favorite Feature

■ Set the Favorite Feature

1 Display the SUB MENU.

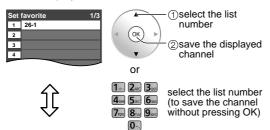


2 Select "Set favorite"

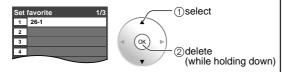




3 Set the displayed channel



Delete a favorite channel

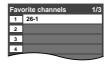


■ Use the Favorite Feature

1 Display "Favorite channels"



2 Select the channel







3 Set a Favorite channel





■ To change the page

FAVORITE

Press repeatedly to change between pages (1/3, 2/3, 3/3 or exit)

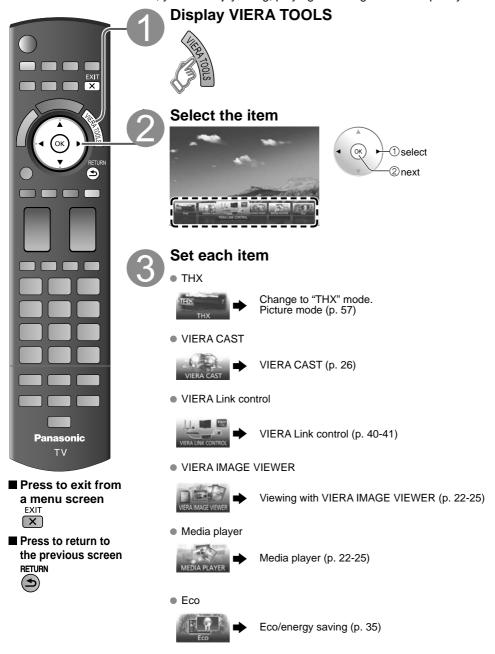


Changes the page forward/backward

Using VIERA TOOLS

VIERA TOOLS is the easy way to access frequently-used menu items. They are displayed as shortcut icons on the TV screen.

Unlike a conventional menu, you can enjoy using, playing or setting a function quickly.



Viewing with VIERA IMAGE VIEWER (Media player)

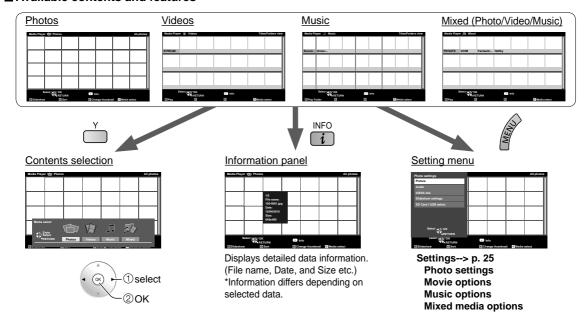
The VIERA Image Viewer is a function that lets you easily view still and motion images on a VIERA television by simply inserting an SD card into the VIERA SD card slot.

Media player:

You can also view still and motion images and play music saved on a USB flash memory and an SD card.

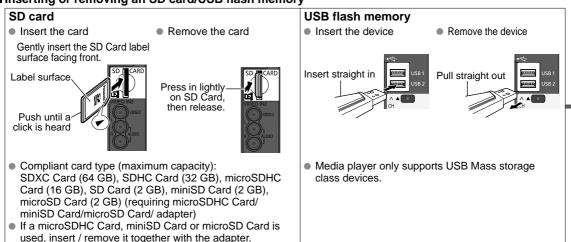
Basic features for Media player

■ Available contents and features



Media information

■ Inserting or removing an SD card/USB flash memory



For more information and cautions on SD card and USB flash memory (p. 56)



X

3

INFO i

Insert a Media (SD card or USB flash memory)

- This setting will be skipped next time unless you select "Set later" (SD card only).
- 1) Set "Image viewer settings"
- ② Select "Play image viewer now"



Slideshow: A Slideshow will start automatically next time. Thumbnail: The "Photos" will be displayed

automatically next time. Movie/Music: The video/music data plays

automatically from next time. Set later: "Image viewer settings" menu will be displayed repeatedly. Off: The data can be played manually.

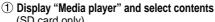
② Select the contents

("Set later" only)





■ Manual operation ("Image viewer auto play" is "Off"/For USB flash memory)



(SD card only)





SD card / USB select (p. 25)

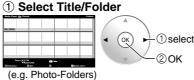


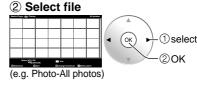




Select the data (Photos/Videos/Music/Mixed)

How to view the data differs depending on data storage conditions.





other functions (p. 24-25)



Movie

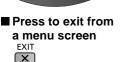


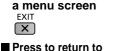






Slideshow (p. 24)



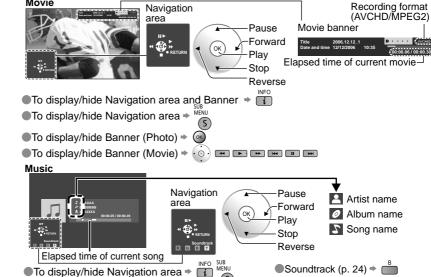


Panasonic

ΤV

the previous screen RETURN

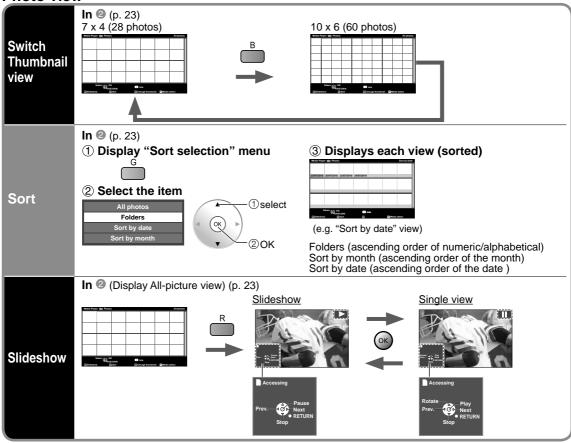




Viewing with VIERA IMAGE VIEWER

(Media player) (Continued)

Photo view



Video view

Change Current audio status In (9 (p. 23)
(1) Display "Current audio status"

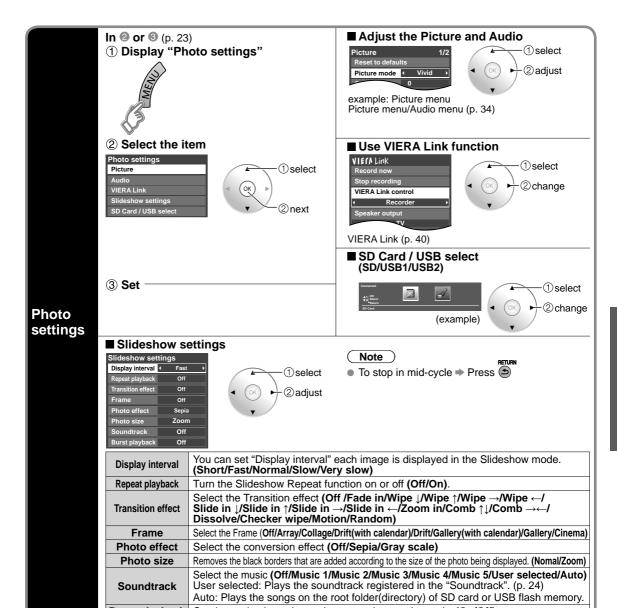


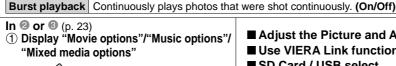
It may take several seconds to change the sound.

2 Each press of SAP will change the Audio mode.

Music view

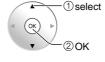






Movie options/ Music options/ Mixed media options





(example: Movie options)

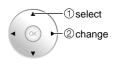
③ Set

- Adjust the Picture and Audio
- Use VIERA Link function
- SD Card / USB select

Follow the direction above (Photo settings)

■ Set up Repeat playback





Set play repeat function Movie: (On/Off)

Music: (Off/One song/Repeat Folder)

VIERA CAST™

You can access information services (TV content) from the Home screen via the Internet.

• You need broadband environment to use this service.



Preparations

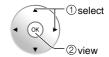
- Internet connections (p. 27)
- Network settings (p. 42-45)

Display the Home screen



Select the item and press OK





■ Press to exit from a menu screen

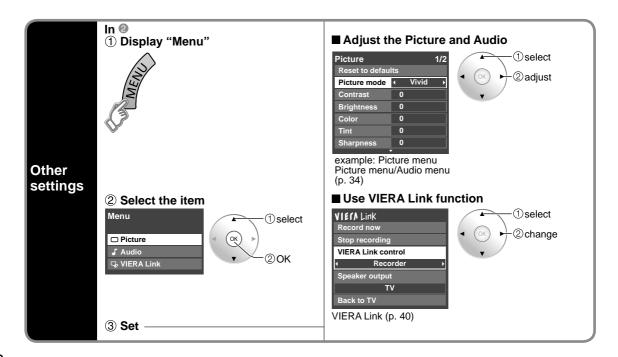
 $\overline{\mathbf{x}}$

■ Press to return to the Home screen



This screen is an example. It varies according to the usage conditions.

- * Depending on the usage conditions, it may take a while to read all the data.
- Entering characters/Operate USB keyboard (p. 19)



Internet connections



Contact your Broadband service provider

NOTICE: If you don't have Internet service by your local provider, please order a high-speed Internet service at no less than the following connection speed. If you already have such service, make sure that the connection speed exceeds the following.

- Required speed (effective): at least 1.5 Mbps for SD and 6Mbps for HD picture quality, respectively.
- Dial-up Internet service cannot be used for VIERA CAST.

Select wired or wireless connection

If the Cable/DSL modem is close to the TV and you have only one TV set, you may choose a wired connection. If the Cable/DSL modem is far from the TV and/or you have more TVs in the house, you may want to use a wireless network.

3

Connecting to the internet

A Basic connection

If you are not using the network for connecting anything else but the TV, you could just connect the TV directly to the Cable/DSL Ethernet connection (see schematic below).

B Advanced wired connection

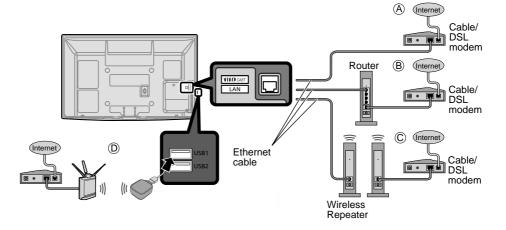
If you are using the network for connecting various PCs/Laptops and want to connect the TV, you should use a router to connect the TV to the Internet (see schematic below).

© Advanced wireless connection 1

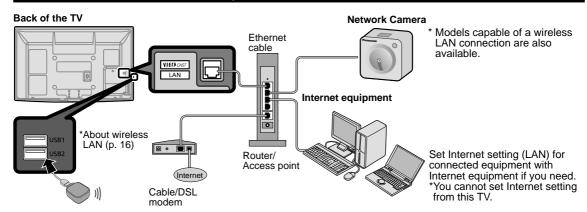
If you are using the network for connecting various PCs/Laptops and want to connect the TV, you could also use a wireless router to connect the TV to the Internet (see schematic below).

(D) Advanced wireless connection 2

If you are using the network for connecting various PCs/Laptops and want to connect the TV, you could also use a wireless LAN adapter and Access point to connect the TV to the Internet (see schematic below).



Example of Network connection



For more details on the external equipment's connections, please refer to the operating manuals for the equipment

Network Camera

You can operate the Network camera from the TV remote and also check the images from the Network camera on your TV.

Basic operation for Network camera



VIEIN EXIT

Preparations

- Internet connections (p. 27)
- Example of Network connection (p. 27)
- Network settings (p. 42-45)
 - Before connecting the Network camera to the TV, please complete "IP setting" and run "Connection test" (p. 42-45)



With all connected equipment turned on

Display "VIERA Link" menu



- If there is no registered camera displayed, please set it in Network Camera settings. (p. 29)
- There is also an option to start with sensor detection.



Select "Network camera"





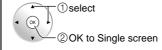


View

4 split screen

Default camera setting (p. 29)

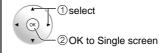






9 split screen

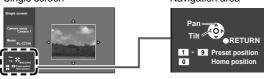






Single screen

Navigation area



X

■ Press to return to the previous screen
RETURN

8TUV

Panasonic

■ Press to exit from

a menu screen



Note

- A number of VIERA-compatible network cameras can be found at the following sites:
 - http://www.panasonic.com/
 - http://panasonic.net/pcc/products/netwkcam/
- For more details on setting and operation of the Network camera, please also read the operating manuals for the Network camera.

Network camera setting

Before using a Network camera, you need to register the camera as shown below. You can also set default camera or disconnect/delete the registered cameras.

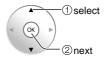


Follow direction 1-8 in "Network settings" (p.42)



Select "Setup" and "Network cameras list"



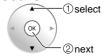


If there is no registered camera



Select "Yes" to start search







Set Network camera setting





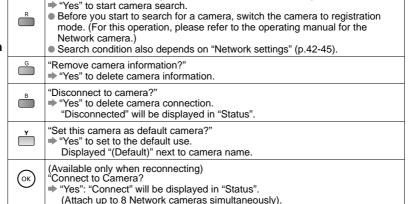


■ Press to exit from a menu screen

Panasonic

ΤV

■ Press to return to the previous screen RETURN

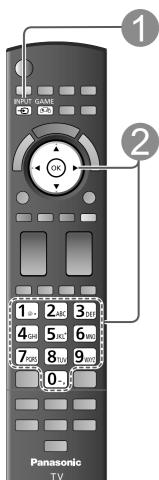


Watching Videos and DVDs

If you have applicable equipment connected to the TV, you can watch videos and DVDs on the TV screen.

Input Select

You can select the external equipment to access.



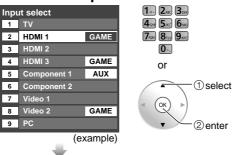
■ To return to TV

With the connected equipment turned On

Display the Input select menu



Select the input mode



Terminal

Label

(example)

Press the corresponding NUMBER button on the remote control to select the input of your choice.

Select the input of your choice, then press OK.

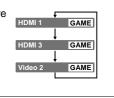
- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- The terminal and label of the connected equipment are displayed.
 To label each of the inputs, please refer to p. 51.

Note

- The Input label will be displayed on the "Input select" screen if the Input label is set on p. 51.
- For side input terminals (HDMI 3/Video 2), "GAME" Input label is set as default. (Picture mode is set to "Game", refer to p. 57.)
- For more details on the Picture mode setting, refer to p. 57. For "Input labels", refer to p. 51.



- Press Game to switch to the game screen Switches to Input terminal that has "GAME" label.
 - Cycle through the input terminals if there are multiple input terminals that have "GAME" label. (p. 51)
 - If there is no input terminal with "GAME" label, you cannot switch the input terminal to any other input terminal than the one currently selected.





Operate the connected equipment using the remote control supplied with the equipment

Note

• For details, see the manual for the connected equipment.

VIERA Link™ Setting

If you connect equipment that has the "HDAVI Control" function to the TV using an HDMI cable, you will find it easier to use. Please refer to p. 36-41. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.

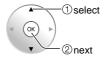


Display the menu



Select "Setup"

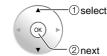






Select "VIERA Link settings"







Select "VIERA Link"





■ Press to exit from a menu screen

Panasonic

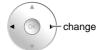
ΤV



 (\mathbf{z})

■ Press to return to the previous screen RETURN





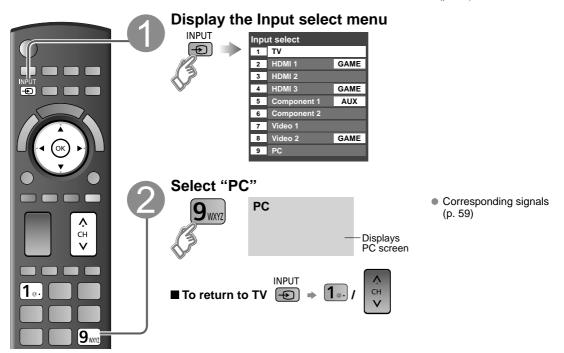
Now you can set each "VIERA Link" function according to your preference (p. 38-41).

Note

- If no HDMI equipment is connected or standard HDMI equipment (non-"VIERA Link") is used, set it to "Off".
- For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC. (p. 53)



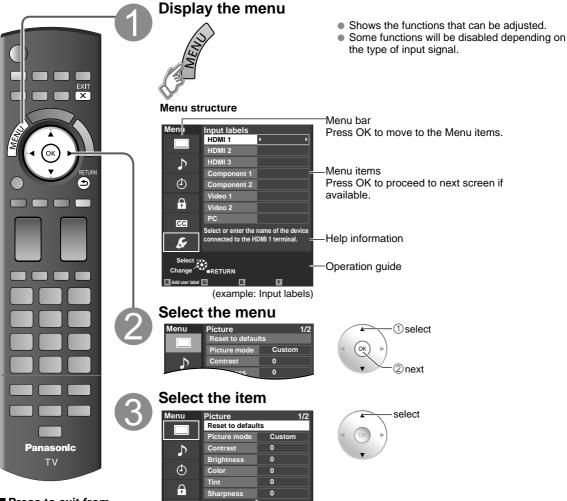
■ PC menu setting (change as desired)

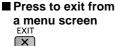
Making settings ⇒ "How to Use Menu Functions" 1 to 4 (p. 33)

Menu	u Item		Adjustments/Configurations (options)
		Reset to defaults	Resets PC adjustments. Confirmation screen is displayed. Select "Yes" and press OK to reset.
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 58) On green: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 58)
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
		H-position	Adjusts the horizontal position.
Picture	PC adjustments	V-position	Adjusts the vertical position.
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.
		Input resolution	Switches to wide display. Input signal switched from 640×480 to 852×480 Input signal switched from 1024×768 to 1280×768 or 1366×768
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz

How to Use Menu Functions

Various menus allow you to set the picture, sound, and other functions so that you can enjoy watching TV best suited for you.





■ Press to return to the previous screen
RETURN



Adjust or select

CC

S





(example: Picture menu)



How to Use Menu Functions

■ Menu list

Menu	u iist	ltem	Adjustments/Configurations (alternatives)
Menu			Adjustments/Configurations (alternatives)
	Reset to defaults*		Resets all picture adjustments to factory default settings except for "Advanced picture".
	Picture mode		Basic picture mode (Vivid/Standard/THX/Game/Custom) (p. 57)
	Contrast, Brightness, Color, Tint, Sharpness		Adjusts the color, brightness, etc. for each picture mode to suit your taste Display range Contrast/Brightness/Color/Sharpness:0 - 100 Tint: -50 - +50
	Color	temp.	Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool 2/Cool 1/Normal/Warm 1/Warm 2)
		mgmt.	On: Enhances green and blue color reproduction, especially outdoor scenes. (Off/On)
	x.v.Color		Auto: Provides the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI input of this TV. (Off/Auto)
	Photo enhancement		Provides appropriate picture when still images are input. (On/Off) * "x.v.color" will not work if "On" is set.
	C.A.T.S.		Adjusts the brightness and gradation according to the ambient lighting condition. (Off/On)
	Video NR		Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/Weak/Medium/Strong)
	Blur r	eduction	Improves the moving picture resolution. (Off/On)
	Pro s	ettings	Adjust the "Picture mode" setting in more detail. (p. 57) (This setting can be adjusted only when "Custom" or "Photo" is selected.)
	⊳	Screen format	Changes the format (aspect ratio). (FULL/H-FILL/JUST/4:3/ZOOM) Lets you choose the aspect depending on the format of received signal. (p. 55)
Picture	Aspect adjustments	HD size	Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95 % Size 2: Selected item for "HD size". Scanning 100 %
	ustmei	H size	Adjusts the horizontal display range to reduce noise of both side edges of an image. (Size 1/Size 2) Size 2: Adjusts the image size according to the aspect mode to reduce noise. (p. 58)
	ıts	Zoom adjustments	Adjusts vertical alignment and size when aspect setting is "ZOOM"
	PC adjustments		Sets PC display (p. 32)
	HDMI/DVI RGB range (HDMI 1-3)		Prevents the blown out highlights and blocked up shadows when a wide-range signal is received. Selects between standard RGB range (16-235 bits) or non-compliance (0-255 bits). (Auto/Standard (16-235)/Nonstandard) Auto: Switches the RGB range (Standard (16-235)/Nonstandard) depending on the HDMI signal information.
		3D Y/C filter	Minimizes noise and cross-color in the picture. (Off/On)
	Advanced	Color matrix	Selects image resolution of component-connected devices (SD/HD) SD: Standard Definition HD: High Definition Only used with 480p video signal.
	ınc	Block NR	Reduces noise of specific digital signals of DVD, STB, etc. (Off/On)
	ed	Mosquito NR	Reduces HDTV flicker noise in the contoured sections of an image (Off/On)
	picture	Black level	Selects Dark or Light. Valid only for external input signals. (Dark/Light)
	Ĕ	3:2 pulldown	Adjusts the picture recorded in 24 fps for optimum quality. (Off/On/Auto)
	ē	24p Direct in	48Hz: Achieves more cinematic playback by reproducing the movie contents at twice the speed of 24 frames per second. (60Hz/48Hz)
	Reset	to defaults*	Resets Bass, Treble, and Balance adjustments to factory default settings.
	Bass		Increases or decreases the bass response.
	Treble	9	Increases or decreases the treble response.
	Balance		Emphasizes the left / right speaker volume.
		A.I. sound	Equalizes overall volume levels across all channels and external inputs. (Off/On)
Audio	≽	Surround	Enhances audio response when listening to stereo. (Off/On)
<u>a.</u>	d	Bass boost	Enhances bass sound and provides powerful sound. (Off/On)
0	ä	Volume leveler	Minimizes volume disparity after switching to external inputs.
	Advanced audio	TV speakers	Switches to "Off" when using external speakers (Off/On) "A.I. sound", "Surround", "Bass boost" and "Volume leveler" do not work if "Off" is selected.
	_	HDMI 1 in HDMI 2 in HDMI 3 in	The default setting is "Digital" for the HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2)
Timer	Sleep	, Timer 1-5	The TV can automatically turn On/Off at the designated date and time. (p. 52)
		<u> </u>	

■ Men	u lis	st	
Menu		Item	Adjustments/Configurations (alternatives)
Lock			Locks the channels and programs. (p. 46)
Closed caption	Clo	sed caption	Displays subtitles (Closed caption) (p. 50)
		annel surf mode	Sets the mode to select the channel with the Channel up/down button. (All/Favorite/Digital only/Analog only) Favorite: Only channels registered as FAVORITE. (p. 20)
	Language		Selects the screen menu language.
	Clock		Adjusts the clock. (p. 17)
	ANT/Cable setup		Sets channels. (p. 49)
	Inp	ut labels	Selects the terminal and label of the external equipment. (p. 51)
	retention	Pixel orbiter	Prevents "Image retention" with Wobbling. (Automatic/Periodic) Automatic: Shifts the display image automatically. Periodic: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time (minutes)" menu.
	l≝,∃	Time (minutes)	Sets the time for the "Pixel orbiter-Periodic" setting. (1/2/3/4)
	ion		Changes the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 mode only) The recommended setting is "Bright" to prevent the panel "Image retention". (p. 58)
	Nat	Scrolling bar	Press "OK" to start the horizontal "Scrolling" on the screen. (p. 58)
		twork settings	Sets Network settings (p. 42) Controls the equipment connected to HDMI terminals. (Off/On) (p. 38)
	I≨	VIERA Link	• "Power off link", "Power on link", "Energy saving mode", "Unselected device energy save"
	꽁		and "Default speakers" cannot be selected if "Off" is set.
		Power on link	Sets "Power on link" of the HDMI connected equipment. (No/Yes) (p. 38)
	Į	Power off link	Sets "Power off link" of the HDMI connected equipment. (No/Yes) (p. 38)
	se	Energy saving mode	
S	VIERA Link settings	Unselected device energy save	Sets "Unselected device energy save" of the HDMI connected equipment. (p. 38) (No (stay on)/Yes (with prompt)/Yes (no prompt))
T t	S	Default speakers	Selects the default speakers. (TV/Theater) (p. 38)
Setup	ECO/energy saving	No signal for 10 minutes	To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION continue for more than 10 minutes. (Stay on/Power TV off) Note Not in use when "Auto power on", "On/Off Timer" or "Lock" is set, or while "SD mode" or "Digital Channel" is selected. "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No signal for 10 minutes". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
		No activity for 3 hours	To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. (Stay on/Power TV off) Note Not in use when "Auto power on" or "On/Off Timer" is set, or while "PC inputs" is selected. "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No activity for 3 hours". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
	Key	yboard type	Select keyboard type. Operate USB keyboard (p. 19) (U.S./Canadian French/Canadian Multilingual Standard/Spanish (Latin America)/Spanish (Spain))
	Advanced setup	Auto power on Image viewer auto play	Turns TV On automatically when the cable box or connected device is turned On (No/Yes) TV AC cord must be plugged into this device. TV turns on every time the power is restored. The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 52)
		Image viewer auto play	Sets the media contents or playback type to play back SD cards automatically. (Slideshow/Thumbnail/Movie/Music/Set later/Off)
		st time setup	Restarts the first time setup from "Language" setting. (p. 14)
	Abo	out	Displays TV version and software license.
	Reset to defaults		Performing Reset will clear all settings made with Setup, such as channel settings. (p. 48)

■ Sub menu list

Menu	Item	Adjustments/Configurations (alternatives)
SUB		Sets the mode to select the channel with the Channel up/down button. (All/Favorite/Digital only/Analog only)
≥ ≌		Sets favorite channels. (p. 19)
回る	Edit CH caption	Changes the station identifier. (p. 49)
2	Signal meter	Checks the signal strength if interference or freezing occurs on a digital image. (p. 49)

In the AV mode, the Audio and Setup menus give fewer options.
 * Confirmation screen is displayed. Select "Yes" and press OK to reset.

VIERA LinkTM "HDAVI ControlTM"*

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote. Enjoy additional HDMI Inter-Operability with Panasonic products which have the "HDAVI Control" function. This TV supports "HDAVI Control 5" function.

Connections to the equipment (DVD recorder DIGA, HD Camcorder, Home theater system, Amplifier, etc.) with HDMI cables allow you to interface with them automatically.

Equipment with the "HDAVI Control" function enables the following operations:

Version	Operations
HDAVI Control or later	 Automatic Input Switching (p. 39) Power on link (p. 39) Power off link (p. 39) Default speakers (p. 39) One-touch theater playback (p. 39) Speaker control (p. 41)
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control (p. 41) Unselected device energy save (for available equipment only) (p. 39)
HDAVI Control 3 or later	 Provides setting information (p. 39) Automatic lip-sync function (p. 39) Direct TV recording (p. 41)
HDAVI Control 4 or later	Energy saving mode (with Quick Start mode) (p. 39)
HDAVI Control 5	 Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable.

■ For the first time/When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1, HDMI2 or HDMI3 (p. 30), and make sure that the image is displayed correctly.

VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

Please refer to the individual manuals for other manufacturers' equipment supporting the VIERA Link function.

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHS15 (4.9 ft/1.5 m), RP-CDHS30 (9.8 ft/3.0 m), RP-CDHS50 (16.4 ft/5.0 m)

^{*} For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

VIERA Link™ Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), Home theater system.

Refer to page 38-41 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off and On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that the DVD recorder (DIGA), Home theater system playback operates.

Note

HDMI 1 is recommended.
 When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 30) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 38-41).

Connecting this unit to the DVD recorder (DIGA), Home theater system

- For DVD recorder (DIGA): Connect with HDMI cable
- For Home theater system

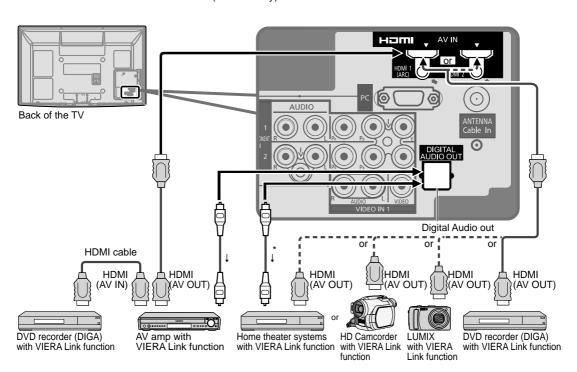
Connect with the HDMI and audio cables.

If audio cable is not connected, you cannot listen to the TV program through the theater system.

* No optical cable is necessary for the equipment that has "HDAVI control 5" and is connected with an HDMI cable. (HDMI 1 only)

■ Connecting this unit to a DVD recorder (DIGA) and AV amp

When using a "VIERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.



- One AV amp and one DVD recorder (DIGA) can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

■ Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link settings") to "On" using the Setup menu. (p. 31, 38-41).

Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
- When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.
 (When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)
- For details about HDMI cables for connecting a Panasonic HD camcorder, read the manual for the equipment.

VIERA LinkTM "HDAVI ControlTM"*

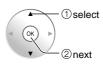


Display the menu

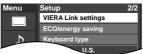


Select "Setup"





Select "VIERA Link settings"





Select "VIERA Link"



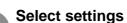


■ Press to exit from a menu screen

EXIT

■ Press to return to the previous screen

RETURN



Select "On"

(default is On)





7

Set





Automatic Input Switching

Power on link

Power off link

Energy saving mode (for "HDAVI Control 4 or later" (with Quick Start mode))

Unselected device energy save (for "HDAVI Control 2 or later")

Default speakers

One-touch theater playback

Provides setting information (for "HDAVI Control 3 or later")

Automatic lipsync function (for "HDAVI Control 3 or later")

(Continued)

When using a Blu-ray Disc player, DVD player/recorder or Home theater system, the TV will automatically change to the appropriate input, when playback begins on one of those devices.

• For a Home theater system the speakers automatically switch to the theater system.

When "Yes" is selected (p. 35), the TV is turned on automatically and switches to the appropriate HDMI input whenever a VIERA Link compatible equipment is initially turned on and the Play mode is selected.

When "Yes" is selected (p. 35) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

A Panasonic DVD Recorder will not turn off if it is still in Rec mode.

Caution: The TV remains on even if the VIERA Link compatible equipment is turned off.

Condition

Power off link: Yes; Energy saving mode: Quick start

The equipment has "HDAVI Control 4 or later (with Quick Start mode)" connected with an HDMI cable.

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

* Minimum power consumption of Standby condition for the equipment.

Condition

Unselected device energy save: Yes

The equipment has "HDAVI Control 2 or later" (for available equipment only) connected with an HDMI cable.

[Examples of timing for operation]

- When the input is switched from the HDMI.
- When the "Speaker output" is changed from "Home theater" to "TV".

The connected VIERA Link compatible equipment will be turned off automatically when not in use.

"TV" is the default setting. To set the Home theater system as Default speakers, change the Default speakers setting from "TV" to "Theater". Sound will be output from the Home theater whenever the TV is powered on.

If the "ONE TOUCH PLAY" key is pressed on the remote control for a Panasonic Home theater system, the following sequence of operations is performed automatically:

- 1 Home theater power switches On, and playback begins.
- 2 TV power switches On, and the playback screen is displayed.
- 3 Audio is muted on the TV and switches to the theater system.

The following information about the TV settings can be transmitted to each piece of equipment (Recorder/Home theater/Player) that has "HDAVI Control 3 or later" function connected to a TV with an HDMI cable.

Transmittable data	Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)	0	0	0
② Panel Aspect Ratio (16:9 fixed)	0	0	0
③ Closed caption information (Mode/CC type/Digital setting)	0		
Channel information (Input signal/Channel list/Caption information)	0		

Note

- There is a possibility that all the GUI language information might be set from the equipment, that has an HDMI CEC
 function connected to the TV with an HDMI cable. Depending on the operating conditions or the specification for
 each piece of equipment the setting may or may not be applied.
- For more details on the external equipment's operation, please refer to the operating manuals for the equipment.

[For Recorder]

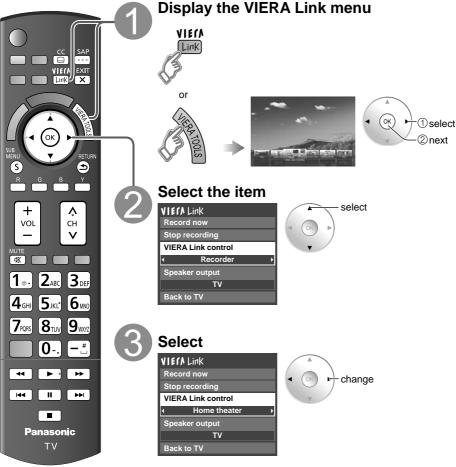
• You cannot operate other functions while transmitting the TV's information above except the Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting @ Channel information).

Minimizes lip-sync delays between the picture and audio when you connect to a Panasonic theater system or Amplifier.

VIERA Link™ "HDAVI Control™"

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu.

For more details on the "HDAVI Control" function, refer to p. 36



Speaker control

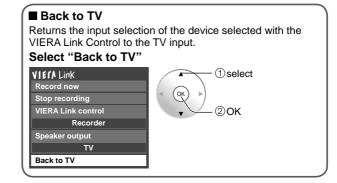
VIERA Link control only with the TV's remote control (for "HDAVI Control 2 or later")

■ Press to exit from a menu screen

■ Press to return to the previous screen
RETURN



Set



Direct TV Recording (for "HDAVI Control 3 or later")

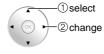
(Continued)

You can select the Home theater or TV speakers for audio output.

Home theater: Adjustment for the equipment Control the theater speakers with the TV remote control. This function is available only when a Panasonic Amplifier or Player theater is connected.

- 1 Select "Speaker output"
- ② Select "Home theater" or "TV"





Volume up / down ⇒

Mute → 🕸

- The sound of the TV is muted.
- When the equipment is turned off, the TV speakers take over.
- Selecting "Home theater" turns the equipment on automatically if it is in Standby mode.
- TV: The TV speakers are on.

In the VIERA Link menu, you can select an HDMI connected equipment and access it quickly. Continue using your TV remote control to operate the equipment, pointing it at the TV.

- 1 Select "VIERA Link control"
- 2 Select the equipment you want to access (Recorder/Home theater/Player/Camcorder/LUMIX/ Digital camera/Network Camera)
 - Using VIERA TOOLS (p. 21)





You can select available items only.

- If there is more than one equipment item, a number after the name indicates the number of items. (e.g. Recorder 1/Recorder 2/Recorder 3...)
- The number of equipment items that can be connected is three for recorders, and a total of three for Home theater/Player/Camcorder/LUMIX/ Digital camera/Network camera.

Note

- There is a limit to the number of HDMI connectors.
- 3 Operate the equipment with the TV remote control, pointing it at the TV
- To operate the equipment, read the manual of the equipment.

■ Available TV remote control buttons

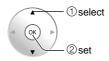
Whether an operation is available differs depending on the connected equipment.

(<u>•</u>)	Move the cursor/Select	•	Play
⊗	Set/Access		Stop
RETURN	Return to previous menu	₩ ▶	Reverse/Forward
SUB MENU S	Display the functions menu on the equipment	H4 PH	Skip Reverse/Forward
R G B Y	Available when the purpose of the keys is displayed on screen	П	Pause
EXIT	Exit	CC	Closed caption
A GH V	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 9	0-9	-3	Select digital subchannel

Records the current program on the recorder immediately.

1 Select "Record now"

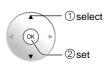




 For optical recording, the settings of the recorder might be required. For details, read the manual of the recorder.

Select "Stop recording", when you want to stop recording

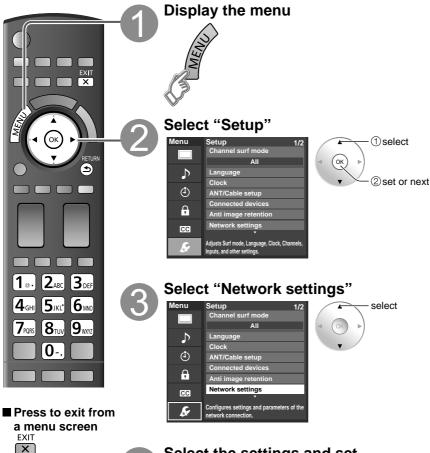




 Recording wii not stop automatically when the program is finished.

Network Settings

This is a setting for connecting to a broadband environment.



■ Press to return to the previous screen











Check that the Network settings are as shown below, and then start "Connection test".

① Select "Connection test" and press OK (It takes a while to cancel the test.)





2 Displayed Connection test screen



③ Complete Connection test

Success->Completion screen is displayed.

Error-->Follow the directions on screen to complete the setting. If you perform the Proxy settings, check the Proxy address and the Proxy port number.

Select Network type (Ethernet cable/Wireless (WiFi))

This setting is performed only when "Wireless (WiFi)" is selected in "Network connection" above.

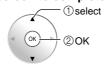
① Press "Wireless network", displayed screen

(only when "---", "No adapter" or "None" is displayed) Set the following connection.

Please select the connection with your wireless LAN adapter and Access point.

2 Follow the directions on screen to complete the setting





WPS (Wi-Fi Protected Setup using push button):

Wi-Fi Protected Setup is an easy setting of the Wi-Fi Alliance's certification. You can connect the Access point to press the buttons.

WPS (Wi-Fi Protected Setup using PIN number):

Set the PIN code that is displayed on the TV on the access point. (For more details on setting of Access point, please refer to operating manual for the Access point.)

Search for wireless networks:

Select an access point from the ones searched for automatically, and configure the settings as instructed on the screen.

Manual settings:

Manually set SSID, Security type, and Encryption type to match the settings of the access point to which to connect.

* When connecting by 11n (5 GHz), select "AES" as the Encryption type for the wireless LAN.

■ Displayed Connection status with an Access point

Wireless network - - -

- - - : Connect with LAN cable

No adapter: Wireless LAN adapter is not installed.
None: There are no settings to connect Access point.

Connecting...: Currently connected to Access point.

If "Connected" is not displayed after a while,

set the access point connection settings again.

Connected: Complete connection.

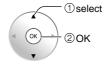
■ Displayed "Current settings and status" screen

(only when "Connected" or "Connecting..." is displayed) You can confirm the AP connection status.

(SSID/Wireless type/Security type/Encryption type/Connection status /Signal strength)

1 Press "Wireless network"





② When you change "Wireless network" -->Press "No" Follow the directions on screen to complete the setting.

You need to be "Connected" to use network devices. Please set Access point settings to "Connected".

Network Settings



Display the menu



Select "Setup"





Select "Network settings"



select

■ Press to exit from a menu screen

■ Press to return to the previous screen
RETURN



Select the item and adjust





IP setting/

settings

DNS

VIERA CAST setting

Network cameras list

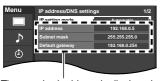
Software update

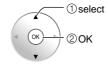
(continued)

[IP setting]

① Select "IP setting mode" and set to "Automatic"

(When IP automatic acquisition in DHCP can be used)





The acquired address is displayed.

■ Manual setting

■ Manual setting

provider

Primary DNS

1 D. 2ARC 3DEF 4GH 5JKL 6WM

0-.

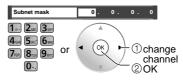
7 PORS 8 TUY 9 WYYZ Or

- ① Select "IP setting mode" and set to "Manual"
- 2 Select the item and press OK
- ③ Check the specifications of the broadband router and enter each IP address

1 Select "DNS setting mode" and set to "Manual"

3 Enter each IP address as was specified by the

0. 0. 0. 0



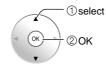
2 Select the item and press OK

2 Each IP address is acquired automatically

[DNS settings]

① Select "DNS setting mode" and set to "Automatic" (When DNS automatic acquisition in DHCP can be used)





The acquired address is displayed.

2 Each IP address is acquired automatically

If you are using a broadband router, IP automatic acquisition in DHCP can be used under normal circumstances. If you are not sure, check with the person who installed the equipment, or check the instructions for each device.

Set only if specified by the provider.

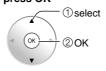
It is not required for normal household use.

■ Proxy address

This is the address of the relay server that is connected to the target server instead of the browser and sends data to the browser. Setting is only required if specified by the provider.

① Select "Proxy address" and press OK





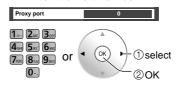
■ Proxy port

This number is specified by the provider together with the Proxy address.

1) select

(2) OK

- ① Select "Proxy port" and press OK
- 2 Enter the Port number



If you perform the Proxy settings, it may make it impossible to view VIERA CAST movie content.

2 Enter address

(see "Entering characters" on p. 19)

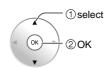


③ Select "OK"

Network camera setting (p. 29)

① Select "Software update"

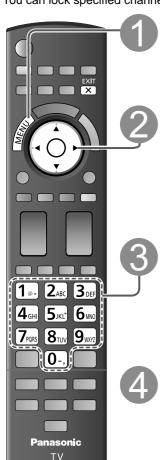




- 2 Press OK to start the Software update screen
- ③ Follow directions on the screen
- * Set "Clock" first. (p. 17)

Lock

You can lock specified channels or shows to prevent children from watching objectionable content.

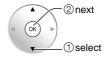


Display the menu



Select "Lock"





You will be asked to enter your password each time you display the Lock menu.

Input your 4-digit password

A 4-digit code must be entered to view a blocked program or change rating settings.

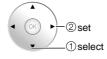




 If it is your first time entering the password, enter the password twice in order to register it.

Select the Lock mode





Off: Unlocks all the Lock settings of "Channel", "Game", "Program" and "VIERA CAST".

All: Locks all the inputs regardless of the Lock settings of "Channel", "Game", "Program" and "VIERA CAST".

Custom: Locks specified inputs of "Channel", "Game", "Program" and "VIERA CAST".

Select the item





 "Channel", "Game", "Program" and "VIERA CAST" are not accessible unless "Custom" is selected in "Mode".

your local dealer.) Note

FXIT

X

Caution ■ Make a note of your

 When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

■ Press to exit from

a menu screen

password in case

you forget it. (If you

have forgotten your

password, consult

Set





Game lock

Program lock

VIERA CAST lock

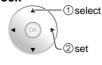
Change password

■ To select the channel or the rating of the program to lock

Select up to 7 (1-7) channels to block. These channels will be blocked regardless of the program rating.

- ① Select "Mode" and set to "Custom"
- 2 Select a channel to lock



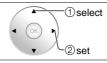


To lock/unlock all channels: Select "Mode" and set to "All" or "Off".

All: Locks all channels Off: Unlocks all channels

Locks Channel 3, Channel 4, and external inputs.

Select "Game" in 6 and set to "On"



On: Locks Off: Unlocks

■ To set a rating level

"V-chip" technology enables restricted shows to lock according to TV ratings.

① Select "Mode" and set to "On"





2 Select the rating category you wish to follow





3 Select the rating to lock select

Example of "MPAA" (U.S. movie ratings)

NR	No rating
G	General Audience: All ages admitted
PG	Parental Guidance Suggested
PG- 13	Parents Strongly Cautioned: Inappropriate for children under 13
R	Restricted: Under 17 requires accompanying parent or adult guardian
NC- 17	No one 17 and under admitted
X	Adults only

To get more information (p. 54)

MPAA: U.S. movie ratings U.S.TV: U.S. TV program ratings C.E.L.R.: Canadian English ratings C.F.L.R.: Canadian French ratings

VIERA CAST lock

Locks VIERA CAST.

Select "VIERA CAST" in 5 and set to "On".

When you press VIERA CAST, the "VIERA CAST Lock" screen is displayed. Type the correct password to enter the Home screen.

■ To change the password

- 1 In 4, select "Change password" and press OK
- 2 Input the new 4-digit password twice



1) select

On: Locks

Off: Unlocks

- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also be blocked.

Editing and Setting Channels

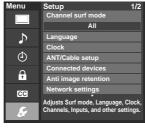
The current channel settings can be changed according to your needs and reception conditions.

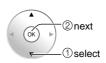


Display the menu

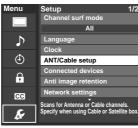


Select "Setup"



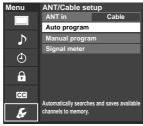


Select "ANT/Cable setup"





Select the function

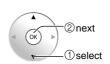


■ Press to exit from a menu screen

EXIT



Set



■ To reset the settings of the Setup menu

- ① Select "Reset to defaults" in the Setup menu (③) and press OK
- ② Input your 4-digit password with the number buttons
- 3 Select "YES" on the confirmation screen and press OK

Auto program Set automatically

Manual program Set manually

Signal meter Check signal strength Automatically searches and adds available channels to the memory.

- ① Select "ANT in"
 - Select "Cable" or "Antenna" Or select "Not used" (p. 15).
- 2 Select "Auto program"





3 Select a scanning mode (p. 15)



Settings are made automatically

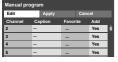
- After the scanning is completed, select "Apply". (see below ⑤).
- All previously saved channels are erased.

Use this procedure when changing the channel setup or changing the channel display.

Also, use this to add or skip channels from the channel list manually.

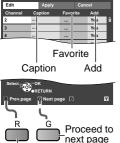
You can select a channel tuning mode (Digital only/Analog only) in "Channel surf mode" (p. 35)

① Select "Edit"





2 Select the item to edit

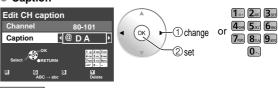


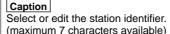


- Caption:
- Changes the station identifier
- Favorite:
- Registers channels to the Favorite List
- Add:
 - Adds or skips channels

3 Edit

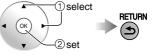
Caption





Favorite





Set favorite Select the number

Add
Drago OK to

Press OK to select "Yes (add)" or "No (skip)"

RETURN

RETURN

 $(\mathbf{2})$

4 Move the cursor to a channel number





⑤ Select "Apply"





To cancel the Edit

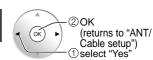
Go back to the previous

page

Manual pr	ogram					
Edit		Apply		Car	ncel	
Channel	Сар	tion	Favor	ite	Add	
2					Yes	î
3					Yes	
4					Yes	П
5					Yes	

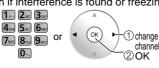






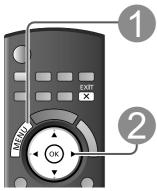
Check the signal strength if interference is found or freezing occurs on a digital image.





- If the signal is weak, check the antenna.
 If no problem is found, consult your local dealer.
- Note
- Not available if "Cable" is selected in "ANT in" (see above).
- Available only for digital antenna channels.

Closed Caption



Display the menu



Select "Closed caption"





■ Press to exit from a menu screen

EXIT

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed caption (CC) information. (p. 55)

■ Select the item and set



①select ②set

 The settings in "Analog" or "Digital" depend on the broadcaster. Mode

On: To display Closed captions. CC on mute: To display Closed captions when the audio is muted.

(When not using, select "Off").

Analog (Choose the Closed caption service of Analog broadcasting.)

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

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

Orgital (The Digital Closed caption menu lets you configure the way you choose to view the digital captioning.)

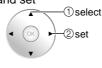
Select the setting.

"Primary", "Second.", "Service 3", "Service 4", "Service 5", "Service 6"

■ To make more in-depth display settings in digital programs

- ① Select "Digital setting" and press OK
- 2 Select the item and set





Text size Size Text font Font Text style (Raised, Depressed, etc.) Style Color of text **Foreground** Opacity of text Fore. opacity Color of text box Background Opacity of text box Back, opacity Outline color of text (Identify the Outline setting options on the screen.)

■ To reset the settings

- ① Select "Reset to defaults". Confirmation screen is displayed.
- 2 Select "Yes" and press OK.

Closed caption Display Closed caption

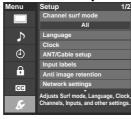
Input Labels

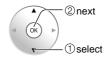


Display the menu



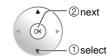
Select "Setup"





Select "Input labels"

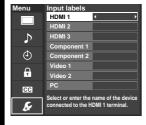


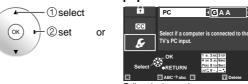


■ Press to exit from a menu screen EXIT

> Devices connected to external input terminals can be labeled for easier identification during the input selection. (In selecting the input mode from p. 30 @)

■ Select the terminal and label of the external equipment





Follow the instructions on screen to complete the following operations.

Input labels **Display** labels of connected devices



[example]

- Terminals: HDMI 1-3/Component 1-2/Video 1-2/PC
- Label: [BLANK] Not used/Blu-rav/DVD/DVD REC/HOME THTR/ GAME/COMPUTER/VCR/CABLE/SATELLITE/DVR/CAMERA/ MONITOR/AUX/RECEIVER/MEDIA CTR/MEDIA EXT/OTHER

For the PC terminal, only "Not used" is available.

- If "Not used" is selected, the INPUT button press will skip its input.
- Each selected label will be displayed on the "Input select" screen. (p. 30)

Using Timer

The TV can automatically turn On/Off at the designated date and time.

• The Clock must be set before On time/Off time settings. (p. 17)

• The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 35) is set.

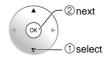


Display the menu



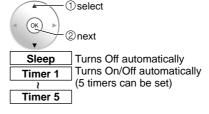
Select "Timer"





Select the timer to set





Set the Timer

■ To set "Sleep" (Off Timer)

Set to shut the unit off after a pre-selected amount of time.





• 0/15/30/60/90 (minutes)

➤ Press to return to the previous screen

■ Press to exit from

a menu screen



EXIT

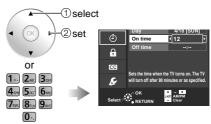
Note

 The TV automatically turns Off after 90 minutes when turned On by the Timer.
 This operation will be cancelled if the Off time is selected or if a key is pressed.

■ To set "Timer 1-5" (On/Off Timer)

Select the item and set

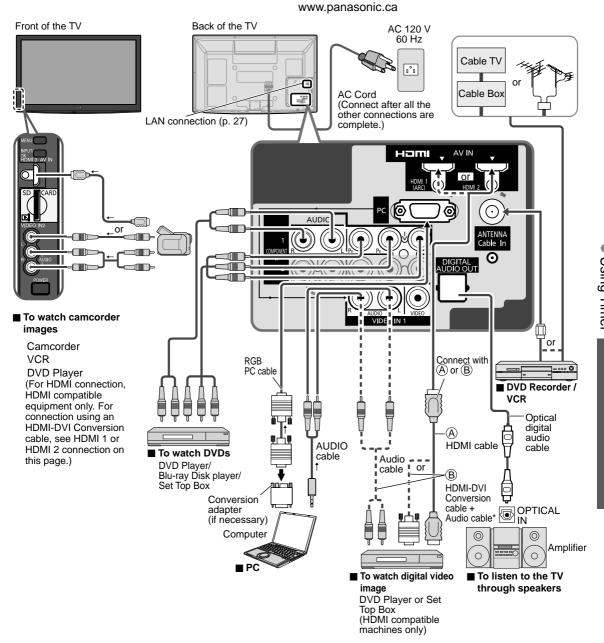




_	
Timer set	Timer setting (Off/On)
Inputs	Select the inputs
Channel	Select the channel
Day	Select the day
SUN/MON/	TUE/WED/THU/FRI/SAT
(displays th	e nearest future date)
MON-FRI/S	AT-SUN/DAILY/Every SUN/Every MON/
Every TUE/I	Every WED/Every THU/Every FRI/ Every SAT
On 41mm	The time to turn On

Recommended AV Connections

These diagrams show our recommendations of how to connect the TV unit to your various equipment. For other connections, consult the instructions for each piece of equipment and its specifications. For additional assistance, please visit our website at: www.panasonic.com



^{*} Please see p. 34 for the setup when using an external analog audio cable with an HDMI to DVI cable.

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 47)

■ U.S. MOVIE RATINGS (MPAA)

NR	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie which has not been rated or where rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	ViewableBlocked	Not Rated.
Youth	TV-Y	ViewableBlocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
	TV-Y7	FV BlockedViewableBlocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	TV-G	ViewableBlocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	D,L,S,V (all selected)Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	D,L,S,V (all selected)Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	L,S,V (all selected)Any combination of L, S, V	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

FV: Fantasy/Cartoon Violence. V: Violence S: Sex L: Offensive Language D: Dialogue with sexual content.

■ CANADIAN ENGLISH RATINGS (C. E. L. R.)

Е	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
С	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

■ CANADIAN FRENCH RATINGS (C. F. L. R.)

Е	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.
8 ans+	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
13 ans+	Programming may not be suitable for children under the age of 13. Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.
16 ans+	Programming may not be suitable for children under the age of 16. Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults. Contains constant violence or scenes of extreme violence.

Caution

- The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"
 - Emergency Bulletins (Such as EAS messages, weather warnings and others)
 - Locally originated programming News Political Public Service Announcements Religious Sports Weather

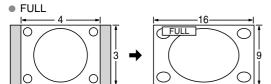
Technical Information

Closed Caption (CC)

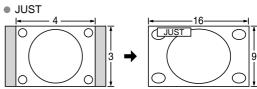
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to the TV.
- If the CC is set to On on both the receiver and TV when the signal is 480i (except for the HDMI connection), the CC may overlap on the TV.
- If a digital program is being output in analog format, the CC data will also be output in analog format.
- If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

Aspect Ratio (FORMAT)

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 19) (e.g.: in case of 4:3 image)

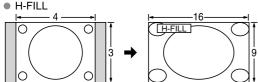


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

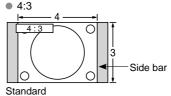


Stretches to justify the 4:3 image to the four corners of the screen.

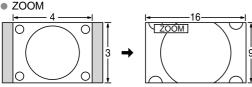
(Recommended for normal TV broadcast)



Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.



(Note that "Image retention" of the side bar may occur from displaying it for a long time.)



Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)

- Note
- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9): FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p: FULL, H-FILL, JUST, 4:3 or ZOOM

Zoom adjustments

Vertical image position and size can be adjusted in "ZOOM".

- 1 Select "Zoom adjustments" on the "Picture" menu. (p. 34)
- 2 V-position: Vertical position adjustment
- ③ V-size: Vertical size adjustment













To reset the aspect ratio ⇒



Technical Information (Continued)

Data format for SD Card /USB flash memory browsing

Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards

Data format-Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)
Max. number of files - 9,999 Image resolution - 160 x 120 to 20,000,000

SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with an audio format that is Movie:

either MPEG-1/Layer-2 format or Dolby Digital format

(A modified data with a PC may not be displayed correctly.)

Music: MP3 format. (Some files cannot be played.)

* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard ** EXIF (Exchangeable Image File Format

Note

- Format the card with the recording equipment.
- 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.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- Data modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF 2.0, 2.1 and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- All ".JPG" extension datas in the card and USB flash memory will be read in Photo viewer Mode.
- The folder and file names may be different depending on the digital camera used.
- Do not use two-byte characters or other special codes.
- The card may become unusable with this TV if file or folder names are changed.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.jp/support/global/cs (This site is in English only)

Cautions in handling SD Card

- Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.
- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to high pressure or impact.
- Insert the card in the correct direction (otherwise, card or unit may be damaged).
- Electrical interference, static electricity or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)



SD Card/USB flash memory warning messages

Message

Please insert SD Memory Card into the SD slot at the side of the TV /Please insert USB storage device into the slot at the side of the TV

No photos/ No movies/No music files to play/ No playable media

Cannot read file

Meaning

The device is not inserted.

The device has no data or this type of data is not supported.

The file is broken or unreadable.

The TV does not support the format.

Recommended USB device connections

A/B: each USB terminal

Number of USB device	Connections (Recommended)	Memory	Wireless LAN adapter	Keyboard	HUB
	A: Flash memory	Α			
1	A: Wireless LAN adapter		Α		
	A: Keyboard			Α	
	A: Flash memory B: Keyboard	Α		В	
2	A: Wireless LAN adapter B:Keyboard		Α	В	
	A: Flash memory B:Wireless LAN adapter	Α	В		
3 or more	A: HUB [Wireless LAN adapter, Keyboard] B: Flash memory	В	A	Α	Α

- You can use an HUB (not supplied) to connect the wireless LAN adapter and USB keyboard together.
- We recommend connecting a USB flash memory directly to the USB terminals.
- Even if you connect 4 or more devices to a HUB, the extra devices will not be recognized.

VIERA Link™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 36)

- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even the TV is in Standby mode.
- Image or sound may not be available for the first few seconds when playback starts.
- Image or sound may not be available for the first few seconds when input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect equipment that has "HDAVI Control 2 or later" function to the TV with an HDMI cable, the sound from the DIGITAL AUDIO OUT terminal can be output as multi-channel surround.
- "HDAVI Control 5" is the newest standard (current as of December, 2009) for the HDAVI Control compatible equipment.
 This standard is compatible with the conventional HDAVI equipment.

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the devices.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set-top box or a DVD player, can be connected to the HDMI connector using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 34)
 Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device. (*2): Enquire at your local digital equipment retailer shop.

Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p.
 Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 59.

Picture mode

• Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.

Standard: Recommended for normal viewing conditions with subdued room lighting.

THX: Faithfully reproduces the image quality that the movie makers intended in order to provide the

ultimate cinematic experience at home.

Game: For playing video games. This mode will be set automatically if "GAME" is selected from the Input label setting (p. 51)

Custom (Photo): Customizes each item according to your taste.

Photo is displayed in JPEG menu.

Note

- Picture mode will be automatically set to "Standard" if you change the Input label from "GAME" to other labels.
- Picture mode will be automatically set to "Game" if you change from an Input label other than "GAME" to "GAME" label.

Pro settings

- Reset to defaults: Resets all Pro setting adjustments to factory default settings. (Set/No)
- W/B high R: Adjusts the White Balance for light red areas.
 W/B high B: Adjusts the White Balance for light blue areas.
 W/B low R: Adjusts the White Balance for dark red areas.
- W/B low B: Adjusts the White Balance for dark blue areas.
- Black extension: Adjusts the dark shades of the image in gradation.
- Gamma adjustment: Gamma correction. Adjusts the intermediate brightness of the image. (S-curve/1.8/2.0/2.2/2.4/2.6)
- Panel brightness: Selects the display panel brightness. (High/Mid/Low)
- Contour emphasis: Adjusts the contour emphasis of the image. (0-15)
- AGC: Increases the brightness of dark signal automatically. (On/Off)
- Save as default: Save all "Picture" (when "Picture mode" is "Custom") and "Pro settings" adjustments.

Technical Information (Continued)

DIGITAL AUDIO OUT terminals

You can enjoy your Home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

Caution

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.
- When playing a movie on SD Card Movie player, when the sound has been recorded in Dolby Digital, the output from the DIGITAL AUDIO OUT terminal will be Dolby Digital. When the sound is recorded in other formats, the output will be PCM.

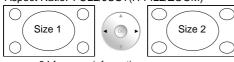
H size

Aspect Ratio: 4:3



 The width will be decreased on both sides to reduce noise.

Aspect Ratio: FULL/JUST(H-FILL/ZOOM)



The width will be increased on both sides to reduce noise.

See page 34 for more information

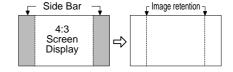
4:3 side bars

Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field.

To reduce the risk of such "Image retention", change the brightness of the side bars.

See page 35 for more information

• The side bar may flash (alternate black/white) depending on the picture.



Scrolling bar

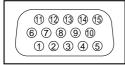
Scrolling bar: To prevent "Image retention", scrolls white vertical bar from left to right on a black screen.

- Press any key except the POWER key to return to previous screen.
- You will return to the previous screen if no key operation has been performed for 15 minutes.
 See page 35 for more information



PC Input Terminals Connection

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.
- The maximum resolution: 1,280 x 1,024
 - If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- Signal Names for D-sub 15P Connector



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	11)	NC (not connected)
2	G	7	GND (Ground)	12	NC
3	В	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	NC (not connected)	14)	VD
(5)	GND (Ground)	10	GND (Ground)	15	NC

	(4)	NC (not connected)	9
Pin Layout for PC Input Terminal	(5)	GND (Ground)	10

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, PB, PR), HDMI and PC

The state of the s	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080)/60p	67.43	59.94		*	
1,125 (1,080)/60p	67.50	60.00		*	
1,125(1,080)/24p	26.97	23.98		*	
1,125(1,080)/24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 x 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.44	59.89			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 x 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 x 870)	68.68	75.06			*
1,280 × 768 @60	47.78	59.87			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.39	60.04			*

Note

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

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, 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 a weak 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 Plasma 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. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

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. (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.)

FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 65, 66)

1 . 2 ABC 3 DEF

4ghi 5jki 6mo

H4 II PH

For additional assistance, please contact us via the website at:

www.panasonic.com/contactinfo

www.panasonic.ca

White spots or shadow images (noise)





 Check the position, direction, and connection of the antenna.

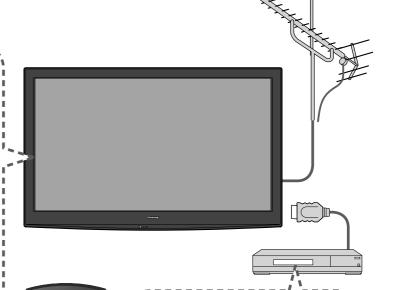
Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 49).
 If the signal is weak, check the antenna and consult your local dealer.

The remote control does not work

- Are the batteries installed correctly?
 (p. 8)
- Are the batteries new?



Pictures from external equipment are distorted when the unit is connected via HDMI

- Is the HDMI cable connected properly? (p. 37, 53)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 59)
- Use equipment compliant with EIA/CEA-861/861B.

When the channel is changed on an STB that is connected with HDMI, "HDMI" may be displayed on the top left of the screen

This is not a malfunction.

Recording does not start immediately

 Check the settings of the recorder. For details, read the manual of the recorder.

Problem

lem Actions

"VIERA" logo moves on the screen

The function to prevent "Image retention" is activated. (Not a faulty symptom)

- The screen saver is activated if the TV unit is not operated for a certain time in SD mode.
- "Image retention". (p. 7)

Some spots remain bright or dark

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

Chaotic image, noisy

Check nearby electrical products. (car or motorcycle ignition systems, fluorescent lamp, etc.)

No image is displayed on screen

Check Picture menu. (p. 34)

- Check the cable connections. (p. 11-12)
- Check that the correct input has been selected. (p. 30)

Only spots are displayed instead of images

- Check the channel settings. (p. 48)
- Check the antenna cables.

Neither image nor sound is produced

- Is the AC power cord plugged into the outlet?
- Is the AC power cord plugg
 Is the TV unit turned On?
- Check Picture menu (p. 34) and volume.
- Check the AV cable connections. (p. 11-12)
- Check that the correct input has been selected. (p. 30)

Black Box appears

Change settings of Closed Caption (CC). (p. 50)

No sound is produced

- Are the speaker cables connected correctly? (p. 53)
- Is "Sound Mute" active? (p. 13)
- Is the volume set to the minimum?
- Is "TV speakers" set to "Off"? (p. 34)
- Change "SAP" settings. (p. 18)
- Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 34)

Sound is unusual

- Set "SAP" setting to "Stereo" or "Mono".
- Check the HDMI device connected to the unit.
 Set the Audio setting of the HDMI device to "Linear PCM".
- If digital sound connection has a problem,
- select analog sound connection.

Unknown sound heard

- 1- Sounds from TV
- 2- Tick/Click sound
- 3- Buzzing sound

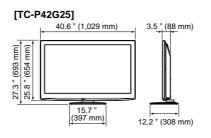
- 1- Changes in the temperature and humidity of the room may cause the TV's cabinet to expand or contract and produce metallic sounds. This is not a sign of faulty operation or a malfunction.
- 2- When the TV is powered on, an electrical component in the TV activates producing a tick/click sound. This is not a sign of faulty operation or a malfunction.
- 3- Electrical circuits are active while the TV set is on. This is not a sign of faulty operation or a malfunction.

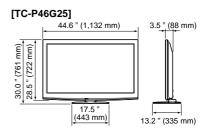
Parts of the TV set become hot

 Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality. Frequently Asked Questions

Specifications

		TC-P42G25	TC-P46G25	
Pow	er Source	AC 120 V, 60 Hz	•	
Power Consu	Maximum	327 W	384 W	
Power Consuamption	Standby condition	0.3 W	0.2 W	
Plasma Display panel	Drive method	AC type		
	Aspect Ratio	16:9		
	Visible screen size (W × H × Diagonal)	42 " class (41.6 inches measured diagonally) 36.2 " × 20.4 " × 41.6 " (921 mm × 518 mm × 1,057 mm)	46 " class (46.0 inches measured diagonally) 40.1 " x 22.5 " x 46.0 " (1,019 mm x 573 mm x 1,169 mm)	
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) 5,760 × 1,080 dots]		
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)		
PC s	ignals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
	nnel Capability tal/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135		
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)		
	VIDEO IN 1-2	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals	COMPONENT IN 1-2	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type x 2 0.5 V [rms]		
ectio	HDMI 1-3	TYPE A Connector × 3 • This TV supports "HDAVI Control 5" function.		
	USB 1-2	USB 2.0 Type A connector x 2		
erm	PC	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance)		
LAN (for VIERA CAST IPTV) RJ45 (10BASE-T/100BASE-TX)				
	Card slot	SD CARD slot x 1		
	DIGITAL AUDIO OUT	· · · · · · · · · · · · · · · · · · ·		
	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip IPTV (VIERA CAST) VIERA IMAGE VIEWER Media player HDAVI Control 5		
Dimensions (W×H×D)	Including pedestal	40.6 " × 27.3 " × 12.2 " (1,029 mm × 693 mm × 308 mm)	44.6 " × 30.0 " × 13.2 " (1,132 mm × 761 mm × 335 mm)	
sions 1 × D)	TV Set only	40.6 " × 25.8 " × 3.5 " (1,029 mm × 654 mm × 88 mm)	44.6 " × 28.5 " × 3.5 " (1,132 mm × 722 mm × 88 mm)	
Ma	Including pedestal	51.9 lb (23.5 kg)	59.6 lb (27.0 kg)	
SSI	TV Set only	45.2 lb (20.5 kg)	53.0 lb (24.0 kg)	
Mass	0.	,		

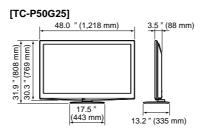


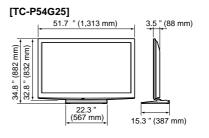


Note

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

	TC-P50G25 TC-P54G25			
Pow	er Source	AC 120 V, 60 Hz	10104020	
	Maximum	441 W	465 W	
Power Consumption	Standby condition	0.2 W	0.2 W	
ᄝ	Drive method	AC type		
asi	Aspect Ratio	16:9		
Plasma panel	Visible screen size	50 " class (49.9 inches measured diagonally) 54 " class (54.1 inches measured diagonally)		
므	(W x H x Diagonal)	43.5 " × 24.4 " × 49.9 "	47.1 " × 26.5 " × 54.1 "	
Display	(No. of pixels)	(1,105 mm × 622 mm × 1,268 mm) (1,198 mm × 673 mm × 1,374 mm) 2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]		
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)		
PC s	ignals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
	nnel Capability tal/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135		
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)		
	VIDEO IN 1-2	VIDEO: RCA PIN Type × 1		
Connection Terminals	COMPONENT IN 1-2	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
TYPE A Connector × 3 Type A Connector × 3				
Š	USB 1-2	USB 2.0 Type A connector x 2		
Term	PC	D-SUB 15PIN: R, G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance)		
LAN (for VIERA CAST IPTV) RJ45 (10BASE-T/100BASE-TX)				
	Card slot	SD CARD slot x 1		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip IPTV (VIERA CAST) VIERA IMAGE VIEWER Media player HDAVI Control 5		
Dimensions (W×H×D)	Including pedestal	48.0 " × 31.9 " × 13.2 " (1,218 mm × 808 mm × 335 mm)	51.7 " × 34.8 " × 15.3 " (1,313 mm × 882 mm × 387 mm)	
sions I × D)	TV Set only	48.0 " × 30.3 " × 3.5 " (1,218 mm × 769 mm × 88 mm)	51.7 " × 32.8 " × 3.5 " (1,313 mm × 832 mm × 88 mm)	
Mass	Including pedestal	64.0 lb (29.0 kg)	70.6 lb (32.0 kg)	
SS	TV Set only	57.4 lb (26.0 kg)	65.1 lb (29.5 kg)	





Note

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

Limited Warranty (for U.S.A. and Puerto Rico only)

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA One Panasonic Way Secaucus, New Jersey 07094

Panasonic Plasma Television Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

PLASMA TV CATEGORIES	PARTS	LABOR	SERVICE
Up to 42" (diagonal)	1 (ONE) YEAR	1 (ONE) YEAR	Carry-In
46" (diagonal) and larger	I (ONE) TEAR	I (ONE) TEAK	On-Site

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts.

You must carry-in your product or arrange for on-site service during the Limited Warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

On-Site or Carry-In Service

For On-Site or Carry-In Service in the United States and Puerto Rico call 1-877-95-VIERA (1-877-958-4372).

On-site service where applicable requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain on-site repairs will not be completed on-site, but will require that the product or parts of the product, at the servicer's discretion be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the glass panel resulting from viewing fixed images (including, among other things, non-expanded standard 4:3 pictures on wide screen TVs, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE LIMITED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN ON-SITE SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory (for U.S.A. and Puerto Rico)

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance: locate your nearest Dealer or Service Center: purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-877-95-VIERA (958-4372)

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

■ For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 9 pm, EST.)

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent. WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

■ For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Limited Warranty (for Canada)

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Viera TV (42" & over)	In-home service	One (1) year, parts (including panel) and labour.
Viera TV (under 42")	Carry-in service	One (1) year, parts (including panel) and labour.

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

In-home service requires clear, complete and easy access to the product by the Authorized Servicer and does not include removal or re-installation of an installed product. If removal is required to service the product, it will be at the discretion of the Servicer and in no event will Panasonic Canada Inc. or the Servicer be liable for any special, indirect or consequential damages.

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING <u>AMOUNT PAID AND PLACE OF PURCHASE</u> IS REQUIRED

LIMITATIONS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Authorized Servicer, or damage that is attributable to acts of God. Dry cell batteries are also excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre: 1-800 #: 1-866-330-0014

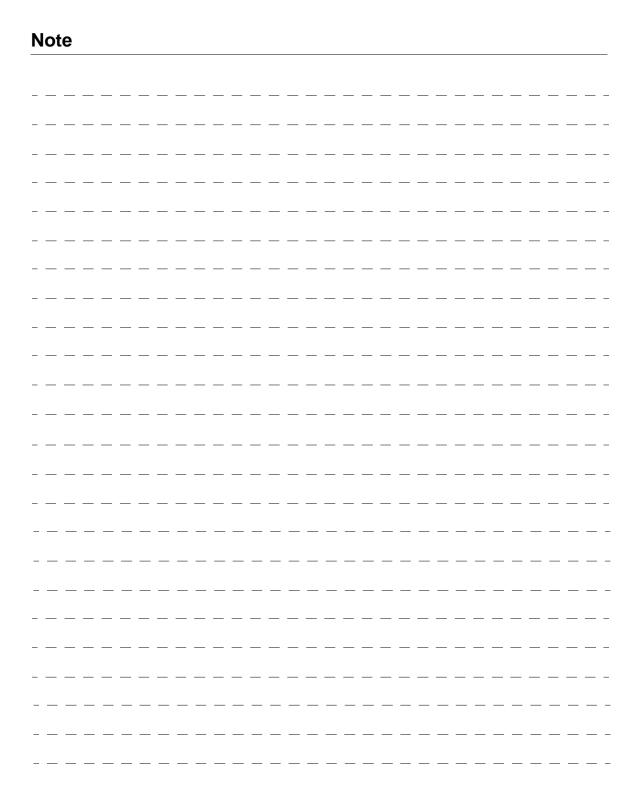
Email link: "Contact us → email" on www.vieraconcierge.ca

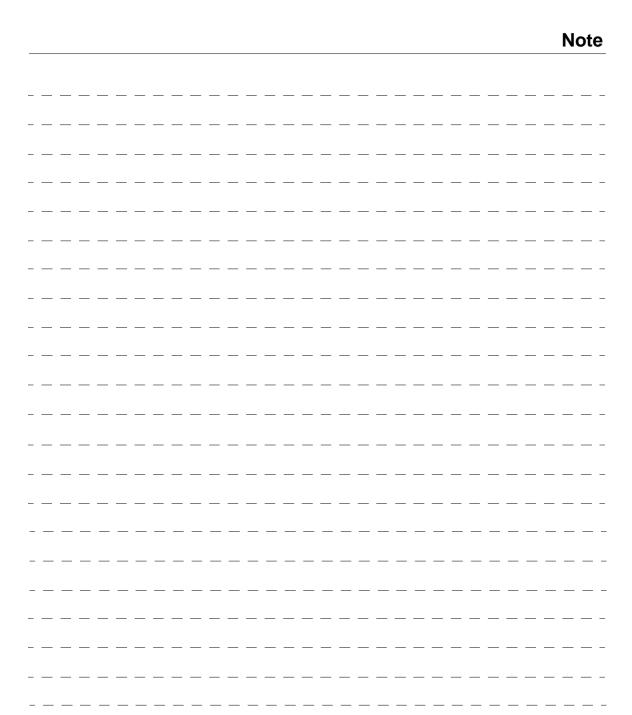
For product repairs, please contact Viera Customer Care Agent using the above contact info.

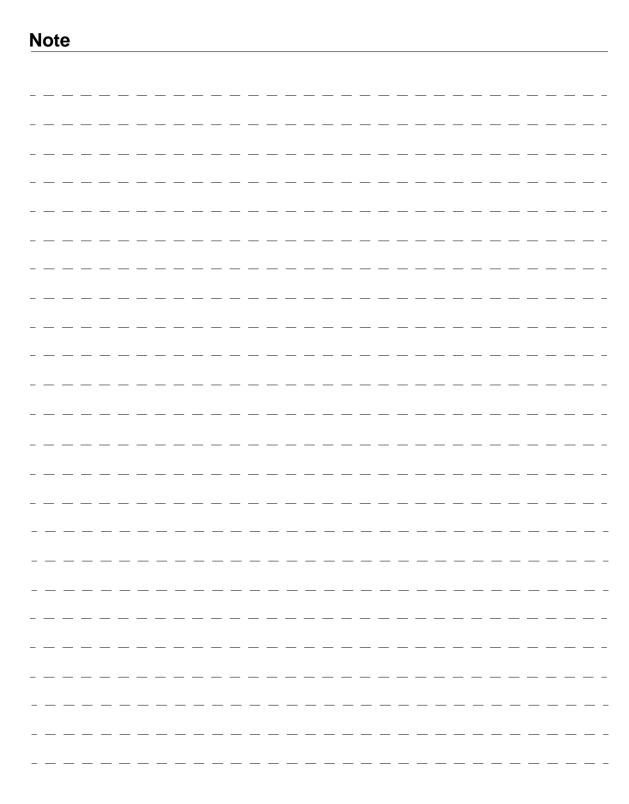
IF YOU SHIP THE PRODUCT TO A SERVICENTRE

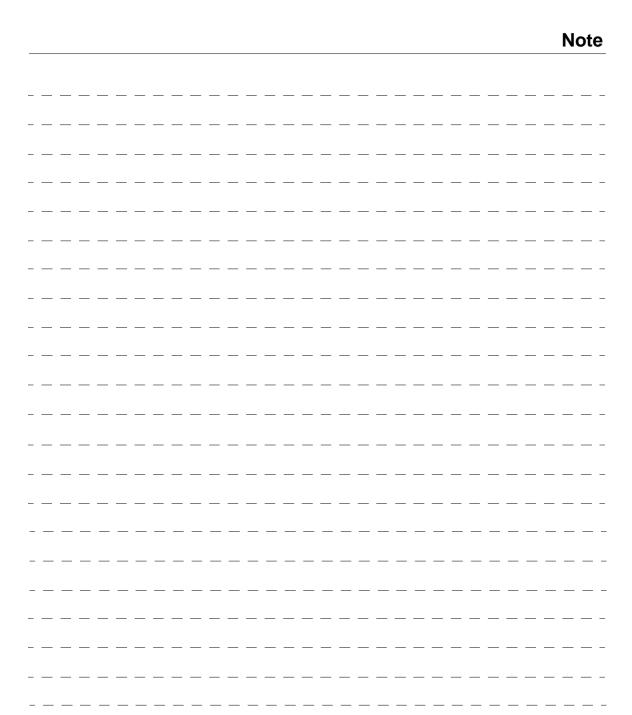
Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

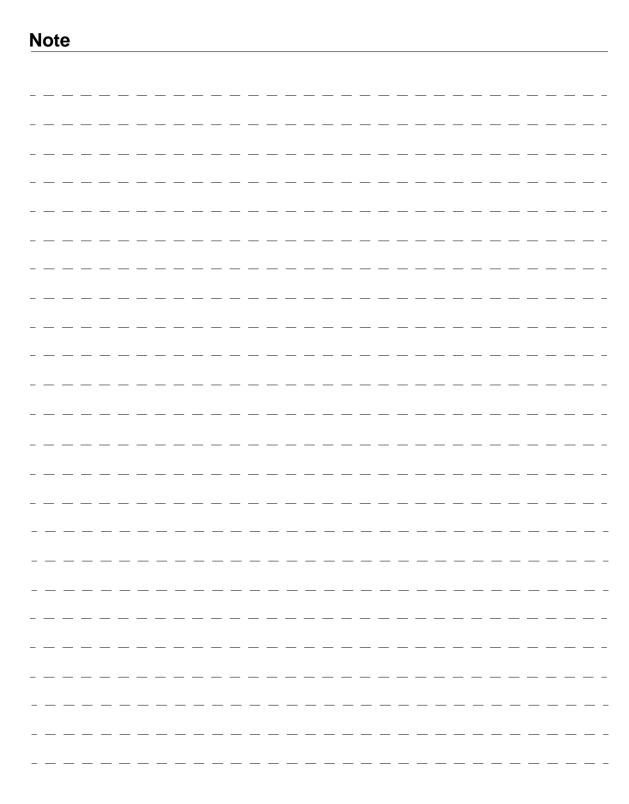
Note

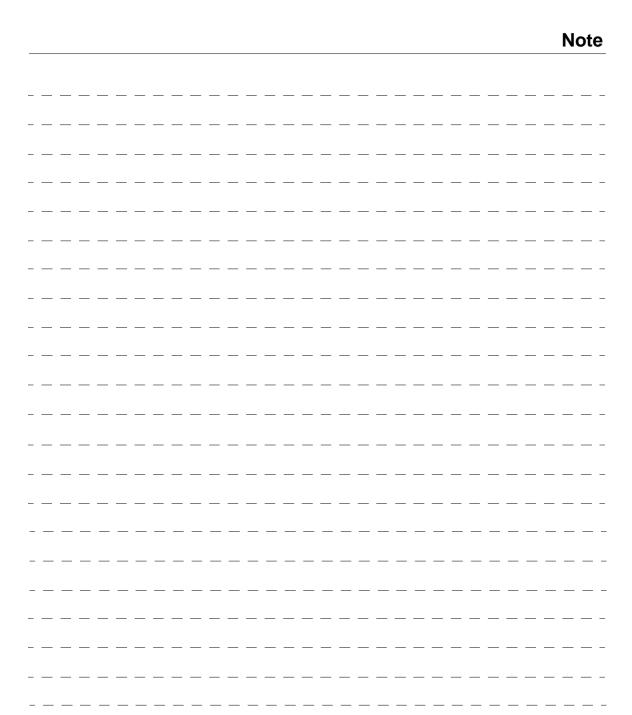


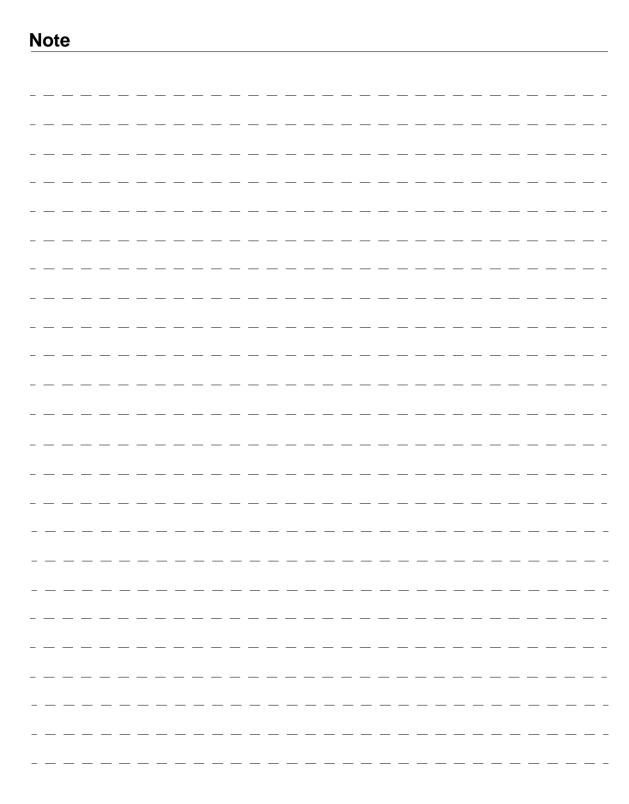


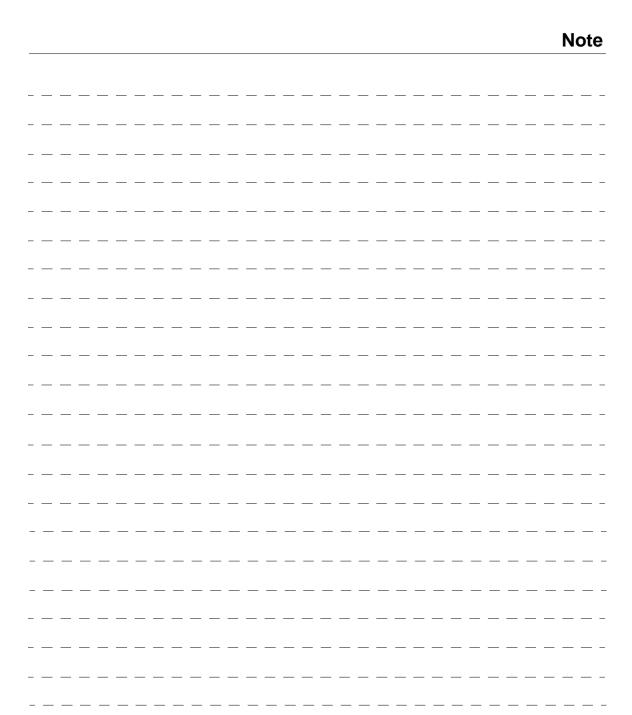












	his product can be found on its back cover. You should note this serial number in book, plus your purchase receipt, as a permanent record of your purchase to aid s, and for Warranty Service purposes.
Model Number	Serial Number
provisto a continuación y guardar este ma	oducto se encuentran en su panel posterior. Deberá anotarlos en el espacio inual, más el recibo de su compra, como prueba permanente de su adquisición, en el caso de que le sea sustraído o lo pierda, y también para disponer de los
Modelo	Número de serie

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