Panasonic

Model No. Número de modelo

TC-P42GT25 **TC-P50GT25**

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

Televisión de alta definición de 1080p v clase 42"/50" de Plasma (41,6/49,9 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

AVCHD...















Division of Panasonic Corporation of North America One Panasonic Way, Secaucus

in identification in the event of theft or loss, and for Warranty Service purposes.

The model number and serial number of this product can be found on its back cover. You should note this serial number in

the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid

El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y quardar este manual, más el recibo de su compra, como prueba permanente de su adquisición.

para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los

Serial Number

Número de serie

New Jersey 07094 U.S.A.

servicios que le ofrece la garantía.

Panasonic Consumer Electronics Company.

Customer's Record

Model Number

Modelo

Anotación del cliente

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

> Printed in U.S.A. Impreso en EE.UU. M0610-0

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.



Experience an amazing level of multimedia excitement

ENERGY STA

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.

The Skype™ is a trademark of Skype limited.

"RealD 3D" is a trademark of RealD. This product is covered by U.S. Patent No. 5,193,000.

VIERA Link™ is a trademark of Panasonic Corporation.	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	CEA.
VIERA CAST™ is a trademark of Panasonic Corporation.	HDAVI Control™ is a trademark of Panasonic Corporation.	LLC in the United States and other countries.	www.CE.org/safety
	e from Dolby Laboratories. uble-D symbol are olby Laboratories.	"AVCHD" and the "AVCHD" log Corporation and S	o are trademarks of Panasonic 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.

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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

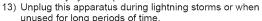
a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

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

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- 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.

- 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



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

11) Only use attachments / accessories specified by the

to avoid injury from tip-over.



- unused for long periods of time.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

WARNING/CAUTION (TV set)



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.

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

- Install the Plasma TV in accordance with the manufacturer's recommended pedestal or stand, corresponding hardware and installation instructions. This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability. The following accessories are manufactured by Panasonic Corporation.
- Wall-hanging bracket (Angled) TY-WK4P1RW

• Be sure to ask a qualified technician to carry out the installation and set-up.

Two or more people are required to install or remove the

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/CAUTION (3D Eyewear)



■ About Prevention of Accidental Ingestion

Do not store batteries, the band accessory or nose pads in places where small children can reach. There is a danger small children could swallow such parts by mistake. . If a child accidentally swallows such parts, seek immediate medical attention.

■ About Prohibition of Disassembly

- Do not disassemble or modify the 3D Eyewear.
- About lithium batterv
- Batteries must not be exposed to excessive heat such as sunshine, fire or the like.



■ About 3D Eyewear

- Do not drop, exert pressure on, or step on the 3D Eyewear. Doing so may damage the glass section, which may result in injury. · Always store the 3D Eyewear in the case provided when not in use.
- Be careful of the tips of the frame when putting on the 3D Evewear.

Accidentally inserting the tip of the frame into the eye may cause injury.

Be careful not to trap a finger in the hinge section of the 3D Evewear.

Doing so may result in injury.

Pay special attention when children are using this product.

■ About Use of 3D Eyewear

- Parents/guardians should monitor children's viewing habits to avoid their prolonged use without rest
- Use only the 3D Eyewear recommended for this TV.
- Only use the 3D Evewear for the specified purpose.
- Do not move around while wearing the 3D Eyewear. The surrounding area appears dark, which may result in falling or other accidents that may cause injury.

■ About Viewing of 3D Images

- In the event that you experience dizziness, nausea, or other discomfort while viewing 3D images, discontinue use and rest your eyes.
- Do not use if the 3D Eyewear is cracked or broken.

About lithium battery

• Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.



AWARNING

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,
- 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-P42GT25, TC-P50GT25

Responsible Party: Panasonic Corporation of North America

One Panasonic Way, Secaucus, NJ 07094

Panasonic Consumer Electronics Company Contact Source:

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

consumerproducts@panasonic.com email:

CANADIAN NOTICE:

For Model TC-P42GT25, TC-P50GT25

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. 63)

Typical still images

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

- 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 Accessories

Accessories

Check you have all the items shown.

Accessories

□ Remote Control Transmitter N2OAYB000486



- ☐ Operating Instructions
- ☐ VIERA Concierge and Quick Start Guide
- ☐ Product Registration Card (U.S.A.)

□ AC cord ☐ Batteries for the Remote Control Transmitter (2) AA Battery How to assemble □ Pedestal (p. 9) TBLX0156 (TC-P42GT25) TBLX0145 (TC-P50GT25)

Optional Accessories

3D Evewear

(Battéry operated type)

(Rechargeable type available in autumn 2010) TY-EW3D2S TY-EW3D2M TY-EW3D2L

Product information (Model No. and release date etc.) is subject to change without notice.

For more product information

(USA) http://www.panasonic.com (Canada) http://panasonic.ca

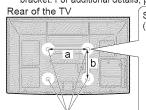
(Global reference) http://panasonic.net/avc/viera/3d/

Wall-hanging bracket (angled)

TY-WK4P1RW

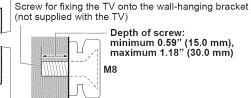


a: 15.7" (400 mm) b: 11.8" (300 mm) Please contact your nearest Panasonic dealer to purchase the recommended wall-handing bracket. For additional details, please refer to the wall-hanging bracket installation manual.



Holes for wall-hanging

bracket installation

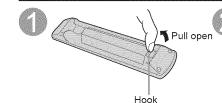


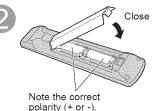
(View from the side)

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





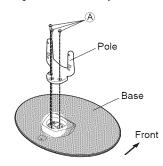
Caution

- 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/Removing the pedestal

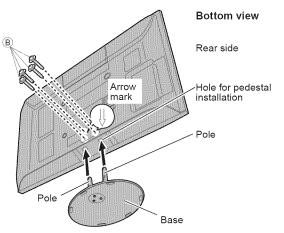
■Assembling the pedestal

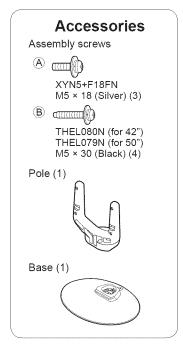
- Fix securely with assembly screws (A). (Total 3 screws)
- Tighten screws firmly.



Set-up

- Carry out work on a horizontal and level surface.
- Tighten assembly screws (B) (total 4 screws) loosely at first, then tighten them firmly to fix securely.





Removing the pedestal from the TV

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

- 1) Remove the assembly screws (B) from the TV.
- 2 Pull out the TV from the pedestal.
- (3) Remove the assembly screws (A) from the pole.

(Warning)

Do not disassemble or modify the pedestal.

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

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

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

If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

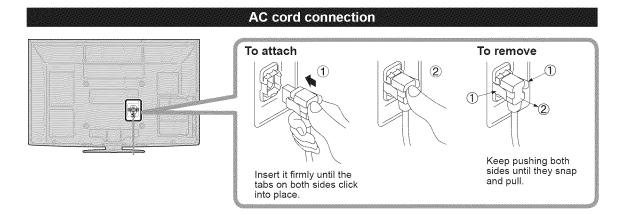
When removing the pedestal, do not remove the pedestal by any methods other than the specified procedure. (see above) Otherwise the TV and/or pedestal may fall over and become damaged, and personal injury may result.

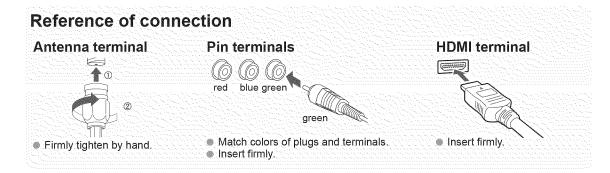
Accessories/Optional Accessory (Continued)

Location Adjust the plasma panel to your desired angle. (View from above) (View from above) (View from above) (Center of the rotation. Counter of the rotation.

Note

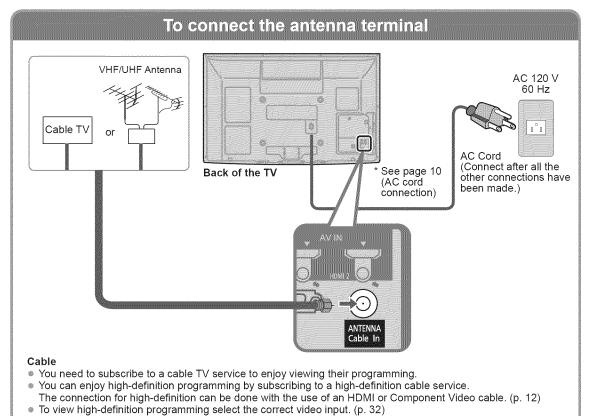
- Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
- Do not place any objects or hands within the full rotation range.





Basic Connection

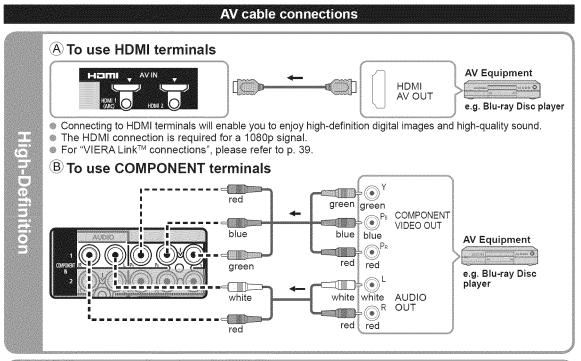
TV VHF/UHF Antenna NTSC (National Television System Committee): Conventional broadcasting ATSC (Advanced Television Systems Committee): Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multichannel surround-sound audio and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

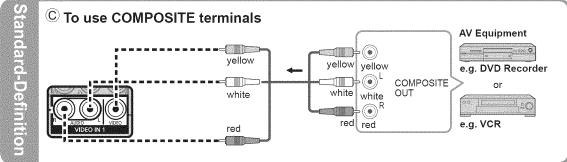


Note

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

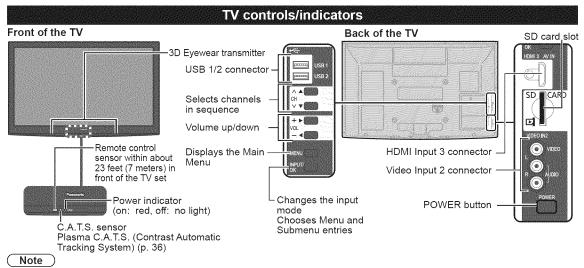




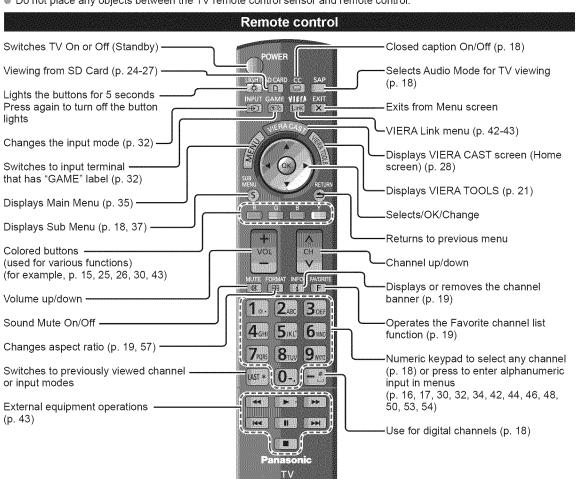
Note

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

Identifying Controls

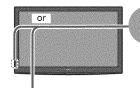


- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.



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. 37) is set to "No".



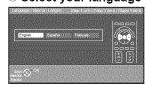
Panasonic

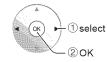
TΛ

Turn the TV On with the POWER button

Configure your viewing mode

① Select your language





2 Select your viewing mode (Be sure to select "Home use")

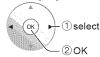




Please confirm your selection (Home Use) before pressing OK button.

■ If you select "Store Demonstration" by mistake in ②, confirmation screen will be displayed.





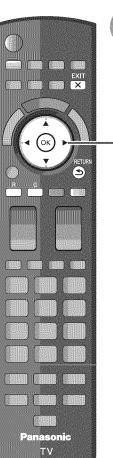
- Select "No" and return to previous screen 2.
- If you select "Yes", Screen enters the store demonstration mode.

To display the "Set viewing mode" screen again as shown above and select "Home Use", do one of the following:

- Press and hold down the side POWER button for at least five seconds.
- Unplug power cord for 30 seconds and plug it again.

Note

- s not available on @ 1.
- is not available on
- "Language" settings will be displayed.
- If you use any other step other than not 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. 37)
- To change the setting (Language, ANT/Cable setup, Input labels, Clock) later, go to the Menu screen (p. 37)



Press to return to

About broadcasting

Analog (NTSC):

Digital (ATSC):

New

Conventional

broadcasting

programming

that allows

you to view

high-quality

featuring

more channels

video and sound

RETURN

Note

systems

the previous screen

② Select "Start"

Auto channel setup (ANT/Cable setup)

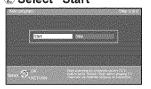
Select the connected Antenna in terminal

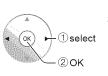


Not used: Go to (Label inputs)

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.





Skip: Go to (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.

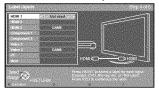




If there is no available channel, return to
- (1) (ANT/ Cable setup). "Not used" will be selected.

Select the Input labels (Label inputs)

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



CTR/MEDIA EXT/OTHER





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

screen to complete the

■ 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)

Configure Network settings 1) Select the Network type

Go to

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

×

1 . 2 ABC 3 DEF

4_{GHI} 5_{JKL} 6_{MNO}

7 PORS 8 TUV 9 WXYZ

0-,

Press to return to

RETURN

(3)

the previous screen

2 Select the setting mode

Automatic: Press OK to start setup automatically.

Error screen is displayed when Network connection has failed.

Go to Manual setting.

Manual:

Manual

Start connection test

Automatic

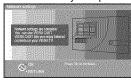


Connection test



③ Complete "Network settings"

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





■ Manual setting



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

■ 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.
- lf 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

1 @ . 2 ABC 3 DEF 4ghi 5jki 6mo 7 PORS 8 TUV 9 WXYZ 0-.

Press to return to the previous screen RETURN

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

Manual setting

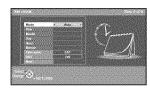






Follow the instructions on screen to complete the following operations.

Auto setting



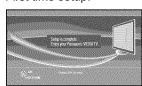
Manual: Adjust the clock manually (Year/Month/Day/Hour/Minute) Auto: The clock is adjusted automatically via Internet service. Only available when the TV is on a network. -->Set "Network settings" first.

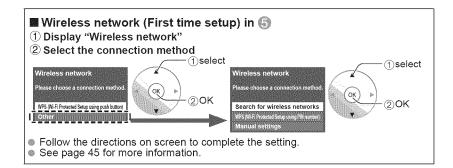
Time zone | Select your time zone. (EST/CST/MST/PST/AKST/HST/NST/AST)

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

Complete First time setup

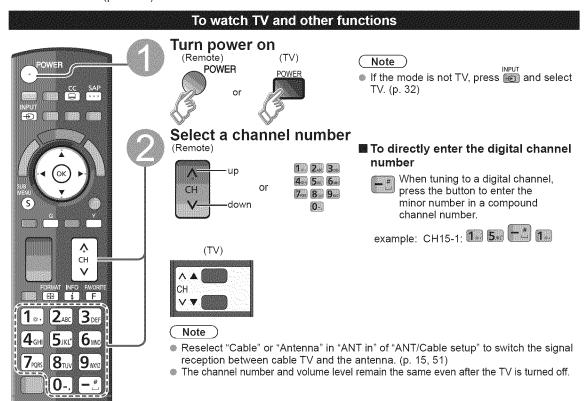
Completion message is displayed when you have successfully completed the First time setup.



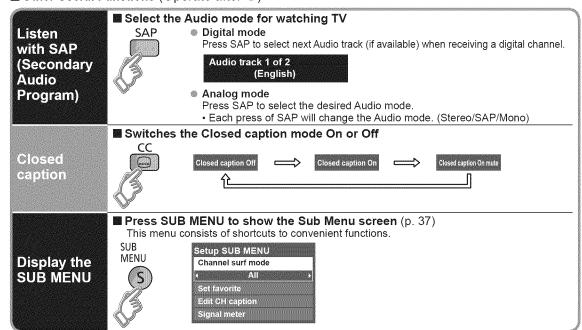


Watching TV

Basic connection (p. 11-12)



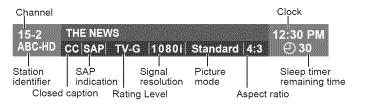
■ Other Useful Functions (Operate after ②)



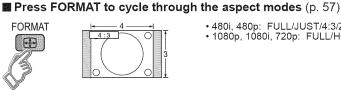
■ Displays or removes the channel banner

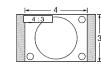
Information Recal





Change aspect ratio





- 480i, 480p; FULL/JUST/4:3/ZOOM 1080p, 1080i, 720p; FULL/H-FILL/JUST/4:3/ZOOM

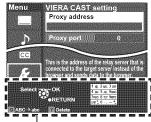
Call up a favorite channel



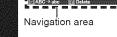
FAVORITE

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.



Entering characters



	Select 🚗 OK			5 JKL	6имо
	• RETURN				9 _{HXYZ}
			LAST*	0 -,	- ".
K	ABC → abc M Delete				
	vitches input mode from	a	lph	nab	et

	1	2	3	4	5	6	7	8	9	10	11	12	
1	@		1	;	?	1	1						1
2	a/A	b/B	c/C	2									2
3	d/D	e/E	f/F	3									3
4	g/G	h/H	i/I	4									4
5	j/J	k/K	I/L	5									5
6	m/M	n/N	0/0	6									6
7	p/P	q/Q	r/R	s/S	7								7
8	t/T	u/U	v/V	8									8
9	w/W	x/X	y/Y	z/Ζ	9								9
0	-	,	;	1	u.	?	ļ	()	&	1	0	0
LAST	*	#	\$	%	=	П	{	}	[]			*
-						Spa	ace						#

Characters are displayed as shown in the following table.

ABC/abc

- You can also use a USB keyboard (not supplied) to enter the alphanumeric characters.
- Keyboard type (p. 37)

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 these keys.

Watching TV (Continued)

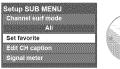
Favorite Feature

■ Set the Favorite Feature

1 Display the SUB MENU.

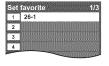


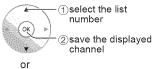
2 Select "Set favorite"





3 Set the displayed channel



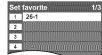






select the list number (to save the channel without pressing OK)

Delete a favorite channel





■ Use the Favorite Feature

◆ Display "Favorite channels"



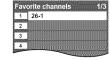
2 Select the channel







3 Set a Favorite channel





■ To change the page



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

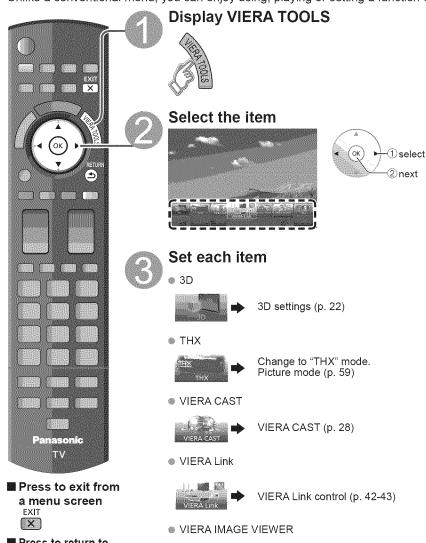


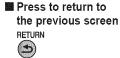
Changes the page forward/ backward

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 (p. 24-27)

2 next

Media player



Media player (p. 24-27)

Eco



Eco/energy saving (p. 37)

0

Viewing 3D images on TV

You can enjoy 3D images by wearing the 3D Eyewear (not supplied) to view 3D broadcasts and 3D image software.

Optional Accessories (p. 8)

* For more detail on usage of 3D Eyewear (Power button and Accessories etc.), please refer to operating manuals for the purchased 3D Eyewear seeing it differs depending on the type of 3D Eyewear (Model No. of 3D Eyewear).

Viewing 3D images

Using the television menu controls, set so that 3D images are shown.

- You can watch 3D images in the following cases: (2D->3D (Simulated 3D) p. 60)
- · When a 3D image supporting Blu-ray Disc is played on a 3D image supporting player/recorder connected using a HDMI cable to a 3D image supporting television.
- 3D image supported broadcast (program)
- 3D Photo, 3D Movie taken by LUMIX / Camcorder, (available in autumn 2010)



Press to exit from a menu screen EXIT X

Press to return to the previous screen RETURN





Wearing the 3D Evewear

Tress and hold the power button on the 3D Evewear for approximately 1 second. (The Indicator lamp lights for approximately 2 seconds.)

2 Put on the 3D Eyewear. If the 3D Evewear slips out of place, hold it in place using the specialized band. and adjust the length of the band.

If the 3D images are not displayed correctly or the images cause discomfort, the images can be adjusted by following this procedure.

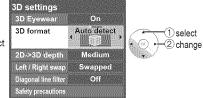
* The perceived three dimensional effects of the 3D Evewear differ from person to person.

1 Display the VIERA TOOLS screen and select "3D"

Using Setup menu (p. 37)



2 Select the item and set 3D settings (see below)





After Use

Press and hold the power button on the 3D Evewear for approximately 1 second. (The Indicator lamp on the 3D Evewear flashes 3 times, then the power switches off.) After using the 3D Evewear, store it in the case provided.

If the images cause discomfort, they can be adjusted with the following settings.

These settings are reset by switching inputs or selecting channel. (Settings will not be retained.)

■ 3D Eyewear (On/Off) 3D Eyewear On

Off: 3D images can be deactivated by turning "Off" while viewing. (When 3D Eyewear is not worn)

■ 3D format

(Auto detect/Side by side/Top and bottom/2D->3D/Native)



settings

Auto detect: (Default) When the HDMI receives information in which 3D mode is detected, 3D images Diagonal line filter (On/Off) are automatically displayed according to the signal. (Switching may not occur depending on the signal.) Side by side/Top and bottom:

Allows you to set this setting to match the image state. 2D->3D: Allows you to transform normal 2D image to 3D image (p. 60).

You can also adjust 3D depth in "2D->3D depth" menu. (see right) "Left / Right swap" and "Diagonal line filter" are not available. Native: Displays the input signals as is on the screen.

When the HDMI receives information in which Full HD (Frame Seguential Method) is detected, the image is automatically displayed regardless of "3D format" settings

2D->3D depth (Minimum/Medium/Maximum)

2D->3D depth Medium

Adjusts 3D depth, Available only when "2D->3D" is selected in "3D format".

■ Left / Right swap (Normal/Swapped)

Change this to "Swapped" when the phases are reversed (when there is an unusual sense of depth).

(Switch "Side by side" and "Top and bottom" types) Diagonal line filter Off

On: Resolves discomfort caused by receiving a quincunx matrix signal.

Safety precautions

Displays message for viewing 3D images.

Precautions for Viewing 3D Images

■ Infra-red receiver section

- Do not soil the infra-red receiver section or attach stickers etc. to it.
- Doing so may prevent the receiver from receiving signals from the television, which may prevent the 3D Eyewear from operating normally.
- If the 3D Eyewear is affected by other infra-red data communication equipment, the 3D images may not be displayed

■ Cautions During Viewing

- If the 3D Eyewear is used in a room in which fluorescent lights (50 Hz) are used, the light within the room may appear to be flickering. In this case, either darken or switch off the fluorescent lights when using the 3D Eyewear.
- Wear the 3D Eyewear correctly, 3D images will not be correctly visible if the 3D Eyewear is worn upside down or back-to-front.
- Individual differences may occur in which the 3D images are difficult to see, or cannot be seen, especially in users that have a different level of eyesight between the left and right eyes. Take the necessary steps (wearing glasses etc.) to correct your evesight before use.

For comfortable viewing

View the screen at a distance at least 3 times further than the effective height of the screen. Recommended distance:

For a 42-inch television, 5'3" (1.6 m) or more.

For a 50-inch television, 6'2" (1.9 m) or more.

Using the 3D Eyewear at a distance closer than the recommended distance may cause eyesight fatigue.

When the top and bottom area of the screen is blackened, such as during some movies, view the screen at a distance 3 times further than the height of the actual image. (That makes the distance closer than above recommended figure.)

Troubleshooting/Q&A

Images are not 3D

Is "3D Eyewear" set to "On"? Switch "3D Evewear" set to "On".

Is "3D input format" set correctly?

When the HDMI receives information in which 3D mode is not detected, 3D images are not automatically displayed.

Adjust "3D input format" according to the 3D images.

- Is there a sticker or other such item blocking the infra-red reception section on the 3D Evewear? The 3D Eyewear operates by receiving signals from the television. Check that there are no objects blocking the path between the television and 3D Evewear.

The power of the 3D Eyewear turns off by itself

There is something wrong with the 3D images

Indicator lamp does not light when the 3D Eyewear power button is pressed

- Are there any objects between the evewear and television?
- Is there a sticker or other such item blocking the infra-red reception section on the 3D Evewear?

The 3D Eyewear operates by receiving signals from the television. Check that there are no objects blocking the path between the television and

· If the eyewear stops receiving infra-red signals from the television, the power automatically switches off after 5 minutes.

 Are the left and right sides of the 3D image reversed? Switch "Left / Right swap" setting. (p. 22)

Is the battery level low?

Battery is run out if the Indicator lamp does not light when 3D Eyewear is powered on. Please replace the battery or recharge the battery. For more details on operation please refer to operating manuals for the

purchased 3D Eyewear.

If a signal received from an external device is different from the 3D setting of the TV, such as 2D signal when the TV is set to 3D mode, the images may not be displayed correctly.

Viewing with VIERA IMAGE VIEWER

(Media player)

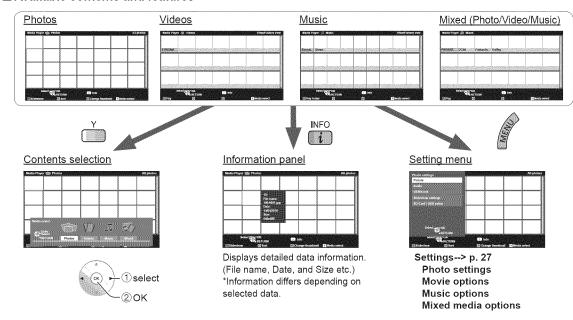
The VIERA Image Viewer is a function that lets you easily view still and motion images on a VIERA television by simply inserting an SD card into the VIERA SD card slot.

Media player:

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

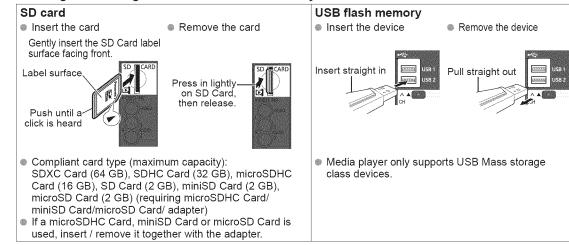
Basic features for Media player

■ Available contents and features

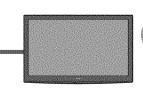


Media information

■ Inserting or removing an SD card/USB flash memory

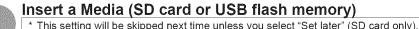


For more information and cautions on SD card and USB flash memory (p. 58)





- Press to exit from a menu screen EXIT
- Press to return to the previous screen RETURN



Slideshow: A Slideshow will start

automatically next time.

Videos/Music: The video/music data plays

automatically next time.

The "Photos" will be displayed

automatically from next time.

Set later: "Image viewer settings" menu
will be displayed repeatedly.

Off: The data can be played manually.

Using VIERA TOOLS (p. 21)

② Select the contents ("Set later" only)

Set later

1) Set "Image viewer settings"

② Select "Play image viewer now"

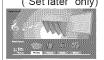
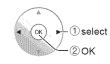
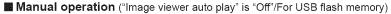


Image viewer settings

Image viewer auto play

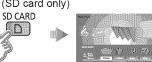
Play image viewer now





② change

① Display "Media player" and select contents (SD card only)



VER).

SD card only

SD card / USB select (p. 27)

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

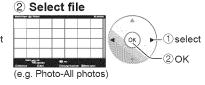
How to view the data differs depending on data storage conditions.

1 Select Title/Folder

OK 1 select

OK 2 OK

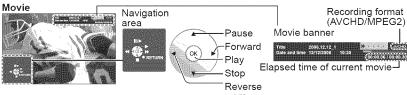
(e.g. Photo-Folders)

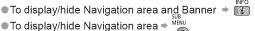


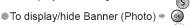
other functions (p. 26-27)

View or Play

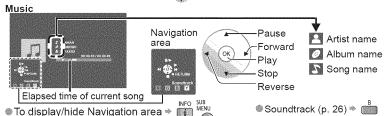












·①select

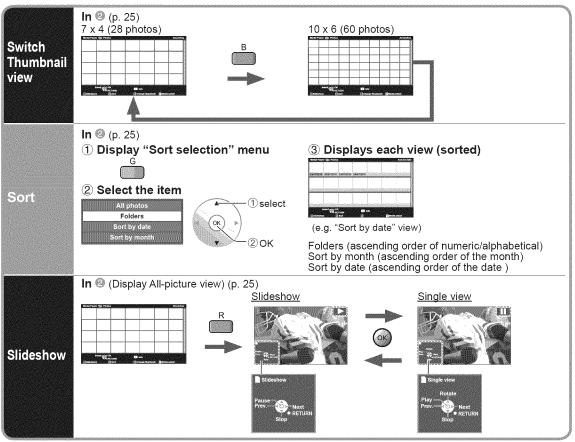
② adjust

2) change

Viewing with VIERA IMAGE VIEWER

(Media player) (Continued)

Photo view



Video view

Change Current audio status

1 Display "Current audio status"



2 Each press of SAP will change the Audio mode. (If the movie has multiple audio signals.)



(Current audio status)

It may take several seconds to change the sound.

Music view

Soundtrack

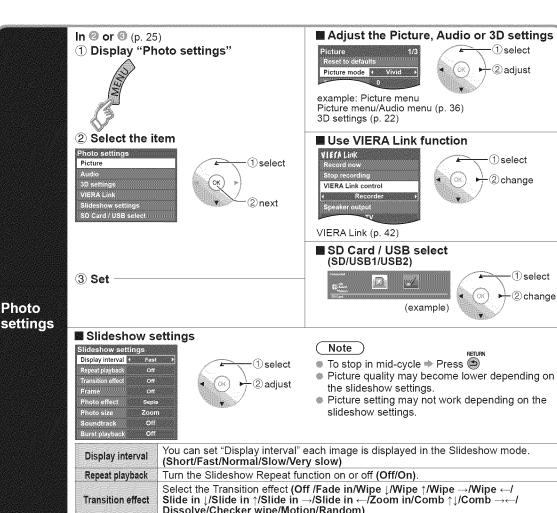
In (p. 25) You can register the music file currently played back or the music files included in the same folder as the current file for Soundtrack. 2 Select the item

1 Display "Soundtrack" menu



1 select

This song: Register current music. All songs in folder: Register the music in a folder.



You can set "Display interval" each image is displayed in the Slideshow mode. Select the Transition effect (Off /Fade in/Wipe \downarrow /Wipe \uparrow /Wipe \rightarrow /Wipe \leftarrow / Slide in \downarrow /Slide in \uparrow /Slide in \rightarrow /Slide in \leftarrow /Zoom in/Comb $\uparrow\downarrow$ /Comb $\rightarrow\leftarrow$ / Dissolve/Checker wipe/Motion/Random) Select the Frame (Off/Array/Collage/Drift(with calendar)/Drift/Gallery(with calendar)/Gallery/Cinema) Photo effect Select the conversion effect (Off/Sepia/Grav scale) Photo size Removes the black borders that are added according to the size of the photo being displayed. (Normal/Zoom) Select the music (Off/Music 1/Music 2/Music 3/Music 4/Music 5/User selected/Auto) User selected: Plays the soundtrack registered in the "Soundtrack". (p. 26) Soundtrack Auto: Plays the songs on the root folder(directory) of SD card or USB flash memory. Burst playback Continuously plays photos that were shot continuously. (On/Off)

In @ or @ (p. 25)

1) Display "Movie options"/"Music options"/ "Mixed media options"



options ② Select the item Vixed

Movie

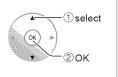
options

Music.

media

options

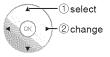




- Adjust the Picture, Audio or 3D settings **■** Use VIERA Link function
- SD Card / USB select
- Follow the direction above (Photo settings)

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.

Press to exit from

a menu screen

Press to return to

the Home screen

EXIT

X

Operate VIERA CAST

Preparations

- Internet connections (p. 29)
- Network settings (p. 44-47)

Display the Home screen



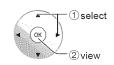


. This camera can be used on VIERA CAST. · For details, read the manual of the Communication Camera

Optional Accessory

Select the item and press OK





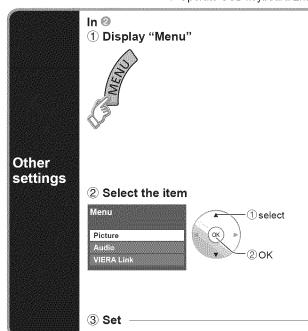
Video communication (e.g. Skype™) requires an exclusive Communication Camera TY-CC10W (above).

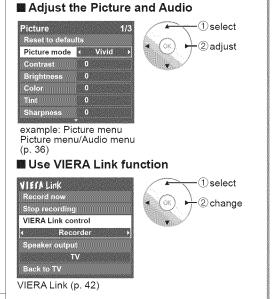
This screen is an example. It varies according to the usage conditions.

- * Depending on the usage conditions, it may take a while to read all the data.
- VIERA CAST contents are subject to change without notice.
- · Not all VIERA CAST contents are available depending on the country and area.
- 3D images are not displayed on center of the home screen depending on the signal.

■ Using USB keyboard

- USB connections (p. 55, 58)
- Keyboard type (p. 37)
 Operate USB keyboard/Entering characters (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.

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

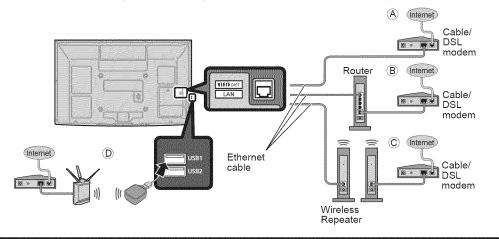
If you are using the network for connecting various PCs/Laptops and want to connect the TV, you should use a router to connect the TV to the Internet (see schematic below).

© Advanced wireless connection 1

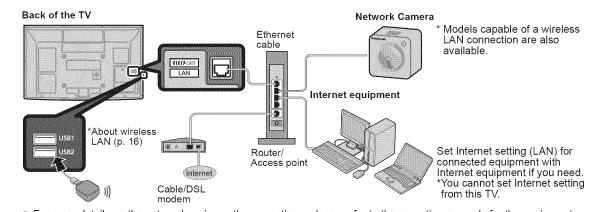
If you are using the network for connecting various PCs/Laptops and want to connect the TV. you could also use a wireless router to connect the TV to the Internet (see schematic below).

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.

VIERA Link control only with the TV's remote control (p. 43)

Basic operation for Network camera

Link X

Preparations

- Internet connections (p. 29)
- Example of Network connection (p. 29)
- Network settings (p. 44-47)
- Before connecting the Network camera to the TV, please complete "IP setting" and run "Connection test"(p. 44-47)



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. 31)
- There is also an option to start with sensor detection.



Select "Network camera"



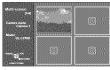


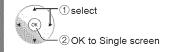


View

4 split screen

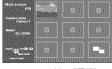
Default camera setting (p. 31)

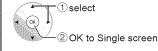






9 split screen

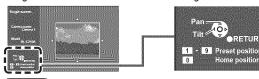








Navigation area



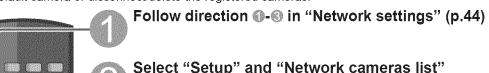
Note

A number of VIERA-compatible network cameras can be found at the following sites: http://www.panasonic.com/ http://panasonic.net/pcc/products/netwkcam/

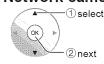
For more details on setting and operation of the Network camera, please also read the operating manuals for the Network camera.



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.



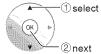




If there is no registered camera

Select "Yes" to start search





Set Network camera setting

EXIT

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■ Press to exit from

a menu screen

■ Press to return

to the previous

X

screen

RETURN

(3)



■ Network camera setting operation

"Yes" to start camera search. Before you start to search for a camera, switch the camera to registration mode. (For this operation, please refer to the operating manual for the

"Please refer to camera's settings and enable its link mode. Start searching for network camera?"

Network camera.) Search condition also depends on "Network settings" (p.44-47).

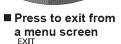
"Remove camera information?" "Yes" to delete camera information.

"Disconnect to camera?" "Yes" to delete camera connection.

"Disconnected" will be displayed in "Status" "Set this camera as default camera?"

"Yes" to set to the default use. Displayed "(Default)" next to camera name

(Available only when reconnecting) "Connect to Camera? "Yes": "Connect" will be displayed in "Status". (Attach up to 8 Network cameras simultaneously).



4_{GHI} 5_{JKL} 6_{MNC} 7 PQRS 8 TUV 9 WXYZ

0-

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■ Press to return to the previous screen RETURN

X



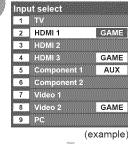
Watching Videos and DVDs

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.

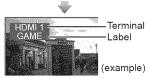
With the connected equipment turned On Display the Input select menu Select the input mode



Press the corresponding NUMBER button on the remote control to 4 ... 5 ... 6 ... select the input of your choice. 7-26 8 ... 9 ... 0-. 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. 53.

Note

4ghi 5jki 6mk

7 PQRS 8 TUV 9 WXY

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To return to TV

■ 1 a.

The Input label will be displayed on the "Input select" screen if the Input label is set

1) select

- For side input terminals (HDMI 3/Video 2), "GAME" Input label is set as default. (Picture mode is set to "Game", refer to p. 59.)
- For more details on the Picture mode setting, refer to p. 59. For "Input labels", refer

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. 53)

or

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. 38-43. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.

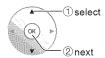


Display the menu



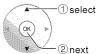
Select "Setup"



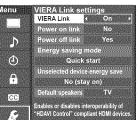








Select "VIERA Link"





Press to exit from a menu screen X

Panasonic

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Press to return to the previous screen RETURN





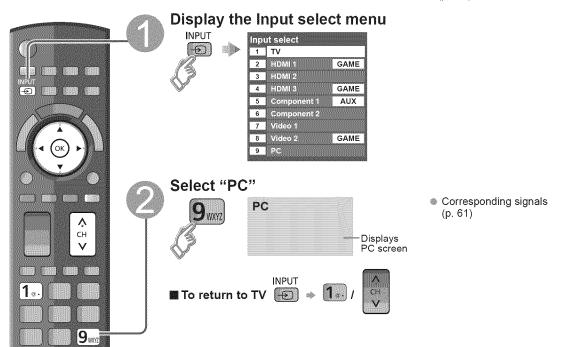
Now you can set each "VIERA Link" function according to your preference (p. 40-43).

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. 55)



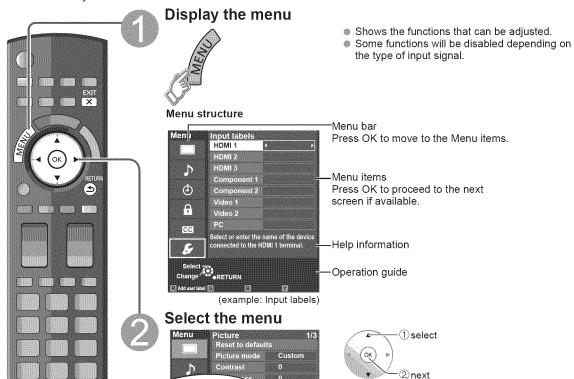
■ PC menu setting (change as desired)

Making settings * "How to Use Menu Functions" to (a. 35)

Menu	Ite	m	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. 61) On green: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 61) 			
		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.			
ē	·	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.



Select the item

Menu	Picture Reset to default	1/3 s
<u> </u>	Picture mode	Custom
Þ	Contrast Brightness	0
①	Color Tint	0
ir ICC	Sharpness	0
E	Resets all picture adjudefault settings excep picture".	





Press to exit from a menu screen

Press to return to the previous

EXIT X

screen RETURN

	Reset to defaults					
	Picture mode	Vivid →				
D	Contrast	0				
	Brightness	0				
(4)	Color	0				
n.	Tint	0				
1	Sharpness	0				
CC	Selects from presel	nictura modas				



Adjust or select



(example: Picture menu)

Audio menu (p. 36)

How to Use Menu Functions

Men	u list		
Menu	u Item		Adjustments/Configurations (alternatives)
	Reset to defaults*		Resets all picture adjustments to factory default settings except for "Advanced picture".
	Picture mode		Basic picture mode. (p. 59) 2D mode: (Vivid/Standard/THX/Game/Custom) 3D mode: (Vivid/Standard/Cinema/Game/Custom) © Each setting will be retained independently.
	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)
	Color 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)
		enhancement	Provides appropriate picture when still images are input. (On/Off) * "x.v.color" will not work if "On" is set.
	C.A.T		Adjusts the brightness and gradation according to the ambient lighting condition. (Off/On)
	Video		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. 60) (This setting can be adjusted only when "Custom" or "Photo" is selected.)
문		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. 57)
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 %
	ct ents	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. 60)
		Zoom adjustments	Adjusts vertical alignment and size when aspect setting is "ZOOM"
	PC adjustments		Sets PC display (p. 34)
	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 picture	Color matrix	Selects image resolution of component-connected devices (SD/HD) SD: Standard Definition HD: High Definition Only used with 480p video signal.
	ä	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)
	<u>pi</u>	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)
	- Pe	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	t to defaults*	Resets Bass, Treble, and Balance adjustments to factory default settings.
	Bass		Increases or decreases the bass response.
	Treble	e	Increases or decreases the treble response.
	Balan	r e	Emphasizes the left / right speaker volume.
	38 .	A.I. sound	Equalizes overall volume levels across all channels and external inputs. (Off/On)
É	Ad	Surround	Enhances audio response when listening to stereo. (Off/On)
estate of the second	Var	Bass boost	Enhances bass sound and provides powerful sound. (Off/On)
	1ced	Volume leveler TV speakers	Minimizes volume disparity after switching to external inputs. Switches to "Off" when using external speakers (Off/On)
	Advanced audio	HDMI 1 in HDMI 2 in HDMI 3 in	● "A.I. sound", "Surround", "Bass boost" and "Volume leveler" do not work if "Off" is selected. 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. 54)

	u list		
lenu Item		Item	Adjustments/Configurations (alternatives)
.ock	ock		Locks the channels and programs. (p. 48)
ST S	Closed caption		Displays subtitles (Closed caption) (p. 52)
	3D s	ettings	Set the 3D settings (p. 22)
		nnel 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)
	Lang	guage	Selects the screen menu language.
	Clock		Adjusts the clock. (p. 17)
	ANT	/Cable setup	Sets channels. (p. 51)
		ıt labels	Selects the terminal and label of the external equipment. (p. 53)
	Anti rete	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.
	2 =	Time (minutes)	Sets the time for the "Pixel orbiter-Periodic" setting. (1/2/3/4)
	lmage ention	4:3 side bars	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. 60)
		Scrolling bar	Press "OK" to start the horizontal "Scrolling" on the screen. (p. 60)
	Netv	vork settings	Sets Network settings (p. 44)
	VIER/	VIERA Link	Controls the equipment connected to HDMI terminals. (Off/On) (p. 40) "Power off link", "Power on link", "Energy saving mode", "Unselected device energy save" 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. 40)
	1 ₫	Power off link	Sets "Power off link" of the HDMI connected equipment. (No/Yes) (p. 40)
	VIERA Link settings		Sets "Energy saving mode" of the HDMI connected equipment. (Quick start/Save) (p. 40)
Se		Unselected device energy save	Sets "Unselected device energy save" of the HDMI connected equipment. (p. 40) (No (stay on)/Yes (with prompt)/Yes (no prompt))
¥tup		Default speakers	Selects the default speakers. (TV/Theater) (p. 40)
	EC	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.
	/ saving	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.
	Keyboard type		Select keyboard type. Operate USB keyboard (p. 19) (U.S./Canadian French/Canadian Multilingual Standard/Spanish (Latin America)/Spanish (Spain))
	Advance setup	Auto power on	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. 54)
	up Jpeot	Image viewer auto play	Sets the media contents or playback type to play back SD cards automatically. (Slideshow/Photos/Videos/Music/Set later/Off)
	Firet	time setup	Restarts the first time setup from "Language" setting. (p. 14)
	11 11 21		
	Abo	•	Displays TV version and software license.

Sub menu list

Menu	Item	Adjustments/Configurations (alternatives)
SUE		Sets the mode to select the channel with the Channel up/down button. (All/Favorite/Digital only/Analog only)
	Set favorite	Sets favorite channels. (p. 19)
回長	Edit CH caption	Changes the station identifier. (p. 51)
	Signal meter	Checks the signal strength if interference or freezing occurs on a digital image. (p. 51)

- 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. 41) Power on link (p. 41) Power off link (p. 41) Default speakers (p. 41) One-touch theater playback (p. 41) Speaker control (p. 43)
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control (p. 43) Unselected device energy save (for available equipment only) (p. 41)
HDAVI Control 3 or later	 Provides setting information (p. 41) Automatic lip-sync function (p. 41) Direct TV recording (p. 43)
HDAVI Control 4 or later	Energy saving mode (with Quick Start mode) (p. 41)
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. 32), 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)

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 40-43 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. 32) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 40-43).

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

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

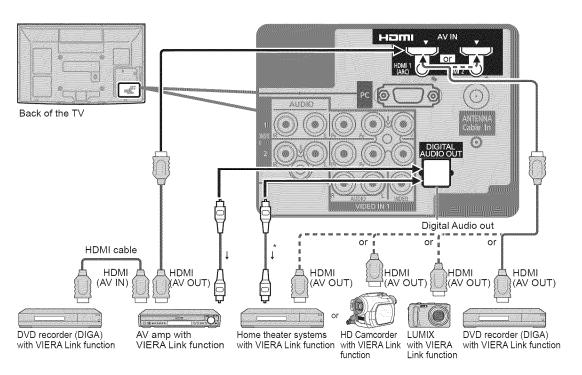
Connect with the HDMI and audio cables.

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 "VIÉRA 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. 33, 40-43).

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.

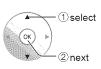
^{*} For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

VIERA LinkTM "HDAVI ControlTM"*

Display the menu

Select "Setup"





Select "VIERA Link settings"







Select "VIERA Link"





Press to exit from a menu screen EXIT

X Press to return to the previous

screen RETURN

Select settings

Select "On"

(default is On)





change



Set





Automatic Input

Power on link

Switching

Power off link

Energy savino mode for "HDAVI Contro 4 or later" (with Quick Start mode

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

Default speakers

One-touch theater playback

Provid<u>es</u> settina 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. 37), the TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and the Play mode is selected.

When "Yes" is selected (p. 37) 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

* 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/Plaver) 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.

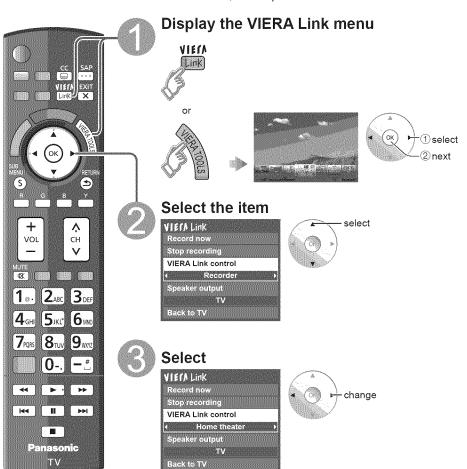
You cannot operate other functions while transmitting the TV's information above except the Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting @ Channel information).

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

VIERA Link™ "HDAVI Control™"

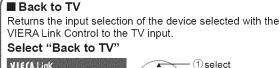
You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link"

For more details on the "HDAVI Control" function, refer to p. 38



Press to exit from a menu screen EXIT X

Press to return to the previous screen RETURN



VIECA Link 1) select Back to TV

(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"



Speaker

VIERA Link

only with the

TV's remote

control

control

later")

(for "HDAVL

Control 2 or

Direct TV

Recording

(for "HDAVI Control 3 or later")

control

Volume up / down -



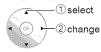
Mute ⇒ 🕸

- The sound of the TV is muted.
- When the equipment is turned off, the TV speakers
- 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 HDMI connected equipment and access it guickly. 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.

- 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

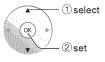
Whether an operation is available differs depending on the connected equipment.

	Move the cursor/Select		Play
	Set/Access		Stop
RETURN	Return to previous menu		Reverse/Forward
SUB MENU	Display the functions menu on the equipment	idd ppi	Skip Reverse/Forward
	Available when the purpose of the keys is displayed on screen		Pause
EXIT	Exit	CC	Closed caption
	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 9.	0-9		Select digital subchannel

Records the current program on the recorder immediately.

① Select "Record now"

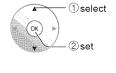




For optical recording, the settings of the recorder might be required. For details, read the manual of the recorder.

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

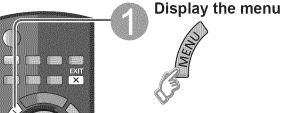




Recording will not stop automatically when the program is finished

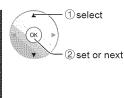
Network Settings

This is a setting for connecting to a broadband environment.



Select "Setup"





Connection

Network

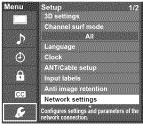
Wireless

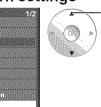
network

connection

test

Select "Network settings"





Press to exit from a menu screen X

1 . 2 ABC 3 DEF

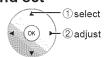
4_{GHI} 5_{JKL} 6_{MNO}

7 PQRS 8 TUV 9 WXYZ

Press to return to the previous screen RETURN







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", display 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





(1) select 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



- - - : Connect with LAN cable

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

Connecting...: Currently connected to Access point. If "Connected" is not displayed after a while, set

the Access point connection settings again.

Connected: Complete connection.

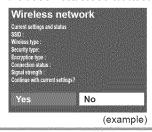
■ Displayed "Current settings and status" screen

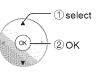
(only when "Connected" or "Connecting..." is displayed)

You can confirm the AP connection status.

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

1 Press "Wireless network"





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".

The Network settings become effective when you close the menu and run "Connection test"

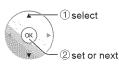
Network Settings

Display the menu



Select "Setup"





IP setting/

VIERA CAST

Network cameras list

uodate

setting

settings

DNS

Select "Network settings"





Press to exit from a menu screen X

1 . 2ABC 3 DEF

4ghi 5jki 6mo

7 PQRS 8 TUV 9 WXYZ

Press to return to the previous screen RETURN





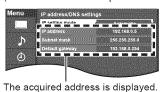


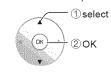
(continued)

[IP setting]

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

(When IP automatic acquisition in DHCP can be used)





Manual setting

■ Manual setting

Primary DNS

1 a - 2 ac 3 ou 4se 5st 6m

7-- 8 9- or

Proxy port

Proxy port

1 .. 2 ac 3 cm

460 516 610

0-.

7 8 9 9 Or

the Proxy address.

2 Enter the Port number

- 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

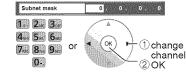
1 select

2) OK

This number is specified by the provider together with

1) select

2) OK



② Select the item and press OK

0, 0, 0, 0

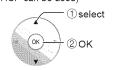
① Select "Proxy port" and press OK

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.

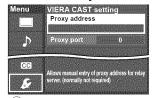
Set only if specified by the provider.

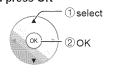
It is not required for normal household use.

■ Proxv 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





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. 31)

1 Select "Software update"



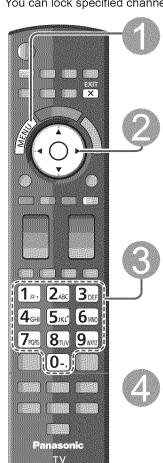


- 2 Press OK to start the Software update screen
- 3 Follow directions on the screen
- * Set "Clock" first. (p. 17)

Software

Lock

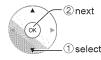
You can lock specified channels or shows to prevent children from watching objectionable content.



Select "Lock"

Display the menu





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

Channel lock

Game lock

Program

VIERA CAST

lock

Change

password

lock

Input your 4-digit password

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

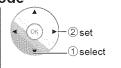


0-If it is your first time entering the password, enter the

password twice in order to register it.

Select the Lock mode





Unlocks all the Lock settings of "Channel", "Game",

"Program" and "VIERA CAST".

Locks all the inputs regardless of the Lock settings of All: "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".

Set

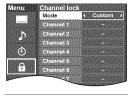


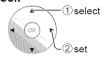
■ To select the channel or the rating of the program to lock

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.

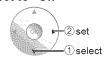
Select "Game" in
and set to "On"

■ 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



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



3 Select the rating to lock

1) select

On: Locks

Off: Unlocks

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
Χ	Adults only

To get more information (p. 56)

VIERA CAST lock

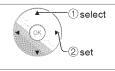
Locks VIERA CAST.

Select "VIERA CAST" in @ 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 , select "Change password" and press OK
- 2 Input the new 4-digit password twice



On: Locks Off: Unlocks

Off Off Off



- 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

displayed that allows you to view the channel if you input your password.

■ Press to exit from

a menu screen

Make a note of your

password in case

vou forget it. (If you

have forgotten your

password, consult

your local dealer.)

When you select a locked channel. a message will be

EXIT

 (\mathbf{x})

Note

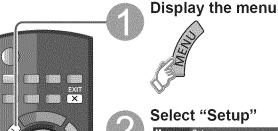
Caution

RETURN

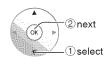
RETURN

Editing and Setting Channels

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



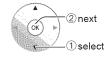






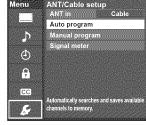
Select "ANT/Cable setup"

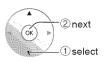






Select the function





Press to exit from a menu screen (\mathbf{x})

Panasonic

1 . 2 ABC 3 DEF

4gHI 5JKL 6MN

7 PORS 8 TUV 9 WXY



■ To reset the settings of the Setup menu

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

Auto program Set automatically



Signal

meter

Check signal strength

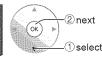
Automatically searches and adds available channels to the memory.

1 Select "ANT in"

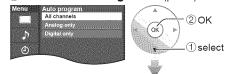
Select "Cable" or "Antenna" Or select "Not used" (p. 15).

2 Select "Auto program"









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

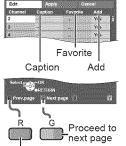
You can select a channel tuning mode (Digital only/Analog only) in "Channel surf mode"(p. 37)

1 Select "Edit"





2 Select the item to edit





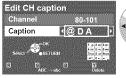
Changes the station identifier Favorite:

Registers channels to the Favorite List Add:

Adds or skips channels Go back to the previous

③ Edit



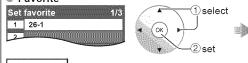


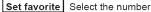




Select or edit the station identifier. (maximum 7 characters available)

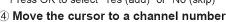
Favorite

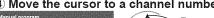




Add

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









⑤ Select "Apply"



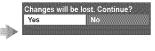


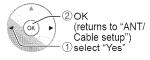
To cancel the Edit



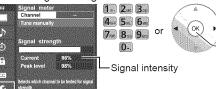
page







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. thange

20K

- Not available if "Cable" is selected in "ANT in" (see above).
- Available only for digital antenna channels.

Closed Caption

Press to exit from a menu screen X

Closed caption

Display

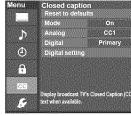
Closed

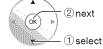
caption

Display the menu



Select "Closed caption"





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. 57)

Select the item and set



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

To display Closed captions. Mode CC on mute: To display Closed captions when the audio is muted. (When not using, select "Off").

(Choose the Closed caption service of Analog broadcasting.)

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

Textual information

(Appears over the entire screen)

Digital (The Digital Closed caption menu lets you configure the way you choose to

view the digital captioning.) Select the setting.

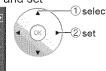
Outline

"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





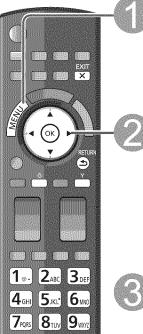
Text size Size Text font Font Text style (Raised, Depressed, etc.) Style Color of text Foreground Opacity of text Fore, opacity Color of text box Background Opacity of text box Back, opacity Outline color of text (Identify the

setting options on the screen.)

■ To reset the settings

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

Input Labels



Press to exit from a

menu screen EXIT

labels of

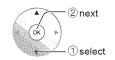
devices

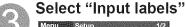
connected

Display the menu

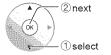
Select "Setup"



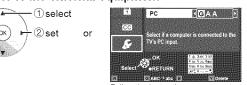




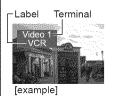




Devices connected to external input terminals can be labeled for easier identification during the input selection. (In selecting the input mode from p. 32 @) Select the terminal and label of the external equipment HDMI 1 Þ Φ Input labels Ą. Display



Follow the instructions on screen to complete the following operations.

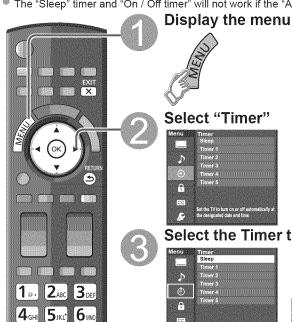


- Terminals: HDMI 1-3/Component 1-2/Video 1-2/PC
- Label: [BLANK] Not used/Blu-ray/DVD/DVD REC/HOME THTR/ GAME/COMPUTER/VCR/CABLE/SATELLITE/DVR/CAMERA/ MONITOR/AUX/RECEIVER/MEDIA CTR/MEDIA EXT/OTHER For the PC terminal, only "Not used" is available
- If "Not used" is selected, the INPUT button press will skip its input.
- Each selected label will be displayed on the "Input select" screen. (p. 32)

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. 37) is set.



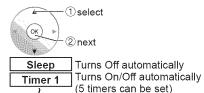
Select "Timer"





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





Timer 5

0/15/30/60/90 (minutes)

■ To set "Timer 1-5" (On/Off Timer)

Select the item and set



EXIT

X

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.

7_{PQRS} 8_{TUV} 9_{WXYZ}

0-.

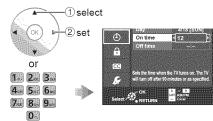
Press to exit from

a menu screen

Press to return to

the previous screen





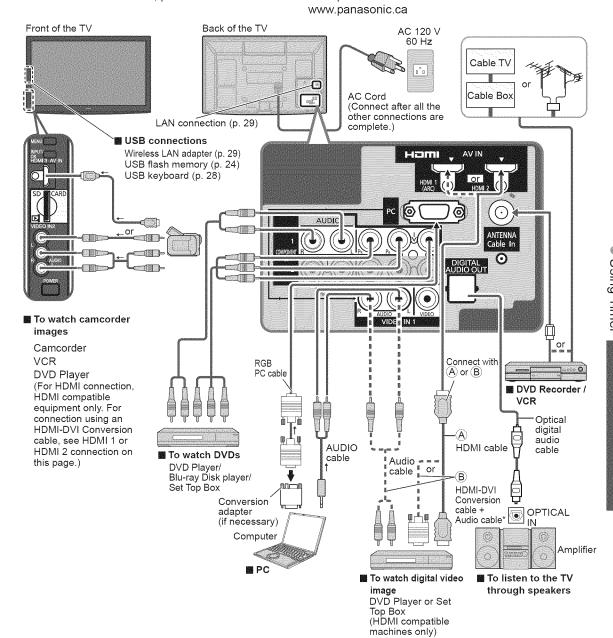
Timer set	Timer setting (Off/On)
Inputs	Select the inputs
Channel	Select the channel
Day	Select the day

SUN/MON/TUE/WED/THU/FRI/SAT (displays the nearest future date) MON-FRI/SAT-SUN/DAILY/Every SUN/Every MON/ Every TUE/Every WED/Every THU/Every FRI/ Every SAT

On time The time to turn On Off time The time to turn Off

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. 36 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. 49)

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.
1117	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.
	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

WU.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.
	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.
Youth	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.
	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.
Guidance	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.)

	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.)

E	Exempt - Exempt programming.
G	minimal or is depicted appropriately.
	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
	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

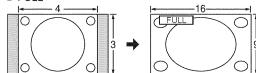
Closed Caption (CC)

- 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.

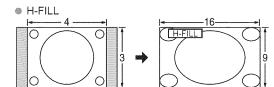
Aspect Ratio (FORMAT)

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)

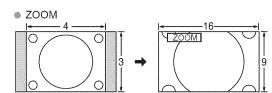
FULL



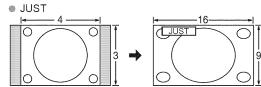
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)



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

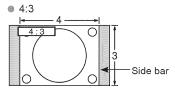


Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)



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

(Recommended for normal TV broadcast)



Standard

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

- 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. 36)
- 2 V-position: Vertical position adjustment

③ V-size: Vertical size adjustment















To reset the aspect ratio ⇒ (OK)



Technical Information (Continued)

Data format for SD Card /USB flash memory browsing

Photo: Still images recorded with digital still cameras compatible with JPEG/MPO 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

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

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

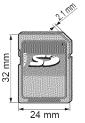
** EXIF (Exchangeable Image File Format

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.
- The function (VIERA Image Viewer/Media player) 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 data 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

lessane.

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

leaning

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
	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	A	В	

VIERA Link™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 38)

- 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 if 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. 36)

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. 61.

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.

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 (2D mode): Faithfully reproduces the image quality that the movie makers intended in order to provide the ultimate cinematic experience at home.

© Cinema (3D mode): For watching movies in a darkened room. It provides a soft, film-like picture.

Game: For playing video games. This mode will be set automatically if "GAME" is selected from the Input label setting (p. 53)

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.

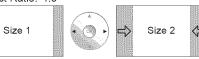
Technical Information (Continued)

Pro settings

- Reset to defaults: Resets all Pro setting adjustments to factory default settings.
- 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)
- Increases the brightness of dark signal automatically. (On/Off)
- Save as default: Save all "Picture" (when "Picture mode" is "Custom") and "Pro settings" adjustments.

H size

Aspect Ratio: 4:3



The width will be decreased on both sides to

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



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

See page 36 for more information

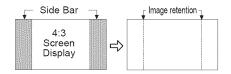
4:3 side bars

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

See page 37 for more information

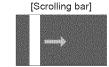
The side bar may flash (alternate black/white) depending on the picture.



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 37 for more information

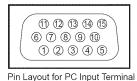


2D→3D (Simulated 3D)

- You can watch content in simulated 3D from photo and all video sources except the PC input.
- This function converts standard 2D images and displays them in 3D. For this reason, the 3D images appear slightly different from the originals. Please bear this in mind when using this function.
- Using this function for profit-making purposes, or publically showing images converted from 2D to 3D in places such as coffee shops or hotels etc. may infringe on the rights of the copyright holder protected under the Copyright Act.

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 × 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)	. (I)	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
1	5	GND (Ground)	10	GND (Ground)	15	NC

Input signal that can be displayed

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

	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 × 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 × 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 × 870)	68.68	75.06	*	4	***************************************
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			*

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

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. 67, 68)

There is possibility of malfunction.

MUTE FORMAT INFO FACEU

1 . 2 ABC 3 DEF

4 dri | 5 kt | 6 mic

7015 81U 9100

AST * | **0**-, | - _ ____

44 1 1 1

144 II PH

Please consult your local Panasonic dealer.

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.

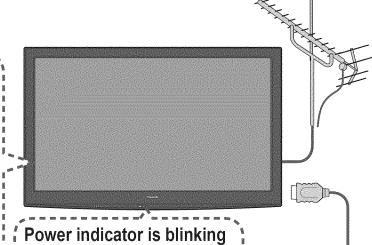
Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 51). If the signal is weak, check the antenna and consult your local

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. 39, 55)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 61)
- 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. If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

Problem

"VIERA" logo moves on the screen

Actions

- 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.

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.

no impact on the performance of the TV.

Check the cable connections. (p. 11-12)

Check the channel settings. (p. 50) Check the antenna cables.

Check nearby electrical products.

Check Picture menu. (p. 36)

Is the TV unit turned On?

These pixels do not indicate a defective panel and will have

(car or motorcycle ignition systems, fluorescent lamp, etc.)

Check that the correct input has been selected. (p. 32)

"Image retention". (p. 7)

Some spots remain bright or dark

Chaotic image, noisy

No image is displayed on screen

Only spots are displayed instead of images

Neither image nor sound is produced

Black Box appears

Change settings of Closed Caption (CC). (p. 52)

Are the speaker cables connected correctly? (p. 55)

Check that the correct input has been selected. (p. 32)

Is the AC power cord plugged into the outlet?

Check Picture menu (p. 36) and volume.

Check the AV cable connections. (p. 11-12)

No sound is produced

- Is "Sound Mute" active? (p. 13) Is the volume set to the minimum?
- Is "TV speakers" set to "Off"? (p. 36)
- Change "SAP" settings. (p. 18) Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 36)
- 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 cabinet

Sound is unusual

- 2- Whirring sound
- 3- Tick/Click sound
- 4- 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- The TV may have a cooling fan that makes a soft whir. This is not a sign of faulty operation or a malfunction.
- 3- 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.
- 4- Electrical circuits are active while the TV set is on. This is not a sign of faulty operation or a malfunction.

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.

Parts of the TV set become hot

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

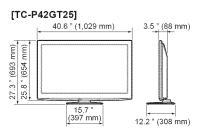
Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth.

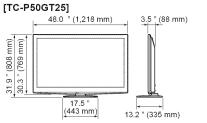
Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)

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.)

Specifications

		TC-P42GT25	TC-P50GT25		
	er Source	AC 120 V, 60 Hz			
Power Plasma Dis	Rated Power Consumption	331 W	445 W		
	On mode Average Power Consumption*	99 W	139 W		
	Standby condition	0.3 W	0.2 W		
	Drive method	AC type			
	Aspect Ratio	16:9			
	Visible screen size	42 " class (41.6 inches measured diagonally)	50 " class (49.9 inches measured diagonally)		
Ū	(W × H × Diagonal)	36.2 " × 20.4 " × 41.6 "	43.5 " × 24.4 " × 49.9 "		
Display	(No. of pixels)	(921 mm × 518 mm × 1,057 mm) 2.073.600 (1,920 (W) × 1.080 (H))	(1,105 mm × 622 mm × 1,268 mm)		
		[5,760 × 1,080 dots]			
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)			
PC signals Channel Capability Digital/Analog)		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz			
		VHF/ UHF: 2 - 69, CATV: 1 - 135			
Operating 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) P _B , P _R : ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]			
ectic	HDMI 1-3	TYPE A Connector × 3 • This TV supports "HDAVI Control 5" function.			
j	USB 1-2	USB 2.0 Type A connector x 2 (DC5V MAX500 mA)			
	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)			
inals	LAN (for VIERA CAST IPTV)	RJ45 (10BASE-T/100BASE-TX)			
	Card slot	SD CARD slot × 1			
FEATURES		PCM / Dolby Digital, Fiber Optic			
		3D Y/C FILTER CLOSED CAPTION V-Chip IPTV (VIERA CAST)			
Dime	Including pedestal	VIERA IMAGE VIEWER Media player 40.6 " × 27.3 " × 12.2 " (1,029 mm × 693 mm × 308 mm)	HDAVI Control 5 48.0 " × 31.9 " × 13.2 " (1,218 mm × 808 mm × 335 mm)		
Dimensions W×H×D)	TV Set only	40.6 " × 25.8 " × 3.5 " (1,029 mm × 654 mm × 88 mm)	48.0 " × 30.3 " × 3.5 " (1,218 mm × 769 mm × 88 mm)		
Z N	Including pedestal	51.9 lb (23.5 kg)	64.0 lb (29.0 kg)		
Š	TV Set only	45.2 lb (20.5 kg)	57.4 lb (26.0 kg)		





Note

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Specifications Care and Cleaning

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

^{*} Based on IEC 62087 Ed.2 section 11.6.1 measurement method.

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	4 (ONE) VEAD	Carry-In
46" (diagonal) and larger	I (ONE) TEAR	1 (ONE) YEAR	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

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 Site at:

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 #:

1-800 #: 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.