

Model No. Número de modelo

TC-P50GT30 TC-P55GT30

Owner's Manual 50"/55" Class 1080p Plasma HDTV (49.9/55,1 inches measured diagonally)

Manual de usuario

Televisión de alta definición de 1080p y clase 50"/55" de Plasma (49,9/55.1 pulgadas medidas diagonalmente)

VIEſA

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

For assistance (Canada), please call: 1-866-330-0014 www.vieraconcierge.ca

Para solicitar ayuda (EE.UU./Puerto Rico), Ilame al: 1-877-95-VIERA (958-4372) www.panasonic.com/help



English

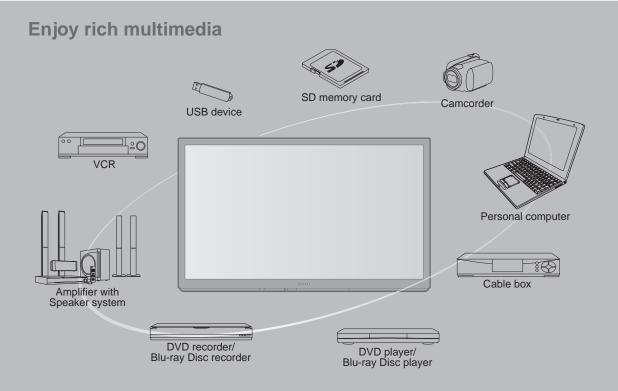
Thank you for purchasing this Panasonic product. Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.

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



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.

- Typical still images
- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo
 Video game
 Computer image
- Set up
- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

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



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

"AVCHD" and the "AVCHD" logo

are trademarks of Panasonic



"RealD 3D" is a trademark of RealD. This product is covered by U.S. Patent 5,193,000 until August 28, 2011. DLNA®, the DLNA Logo and DLNA

CERTIFIED™ are trademarks,

service marks, or certification marks of the Digital Living Network

Corporation and Sony Corporation.



QuickTime and the QuickTime logo are trademarks or registered trademarks of Apple Inc., used under license therefrom.



OuickTime

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.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Alliance.

HDAVI Control[™] is a trademark of Panasonic Corporation.

Skype[™] is a trademark of Skype limited.





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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Please read before using the unit

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Safety Precautions





WARNING: To reduce the risk of electric shock, do not remove cover or back.

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.

No user-serviceable parts inside. Refer servicing to qualified service personnel.

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

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in 7) accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or 9) grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

WARNING/CAUTION (TV set)

WARNING

Small parts can present choking hazard if accidentally swallowed.

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

Set up

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

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

 Wall-hanging bracket (Angled) TY-WK4P1RW(TC-P50GT30) TY-WK5P1RW(TC-P55GT30)

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

Two or more people are required to install or remove the television.

 Some wall mounts (wall-hanging brackets) are not designed to be mounted to walls with steel studs or old cinder block constructions.

Ask your dealer or licensed contractor to properly secure the wall-hanging bracket.

- Do not route the TV's power cord inside the wall. The power cord was not designed for in-wall mounting. Doing so can lead to fire hazard.
- Do not place the Plasma TV or its stand on a sloped or unstable surface.

The Plasma TV may fall or tip over.

- Do not support the Plasma TV on a non-specified pedestal.
- Do not place the Plasma TV on furniture that can easily be used as steps, such as a chest of drawers.
- Do not climb or allow children to climb on the Plasma TV
- Place or install the Plasma TV where it cannot be pushed, pulled over or knocked down.
- Route all cords and cables such that they cannot be tripped over or pulled by curious children.

- Do not place any objects on top of the Plasma TV. If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center. In the unlikely event that you receive a shock from this product it is possible that your household outlet may be wired improperly. Have an electrician verify that the TV's outlet is properly wired. If the symptom persists, have the TV serviced by a qualified authorized technician.
- To prevent the spread of fire, keep candles or other open flames away from this product at all times



AC Power Supply Cord

To prevent fire or electric shock:

- The Plasma TV is designed to operate on a 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 adapters to connect your TV's plug to the wall outlet. Doing so will defeat the TV plug's safety feature, which can lead to a shock hazard. If the wall outlet does not accommodate a 3-prong plug, have a qualified electrician replace your outlet and check the associated wiring.
- Handling the power supply cord
- Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)
- Ensure that the power plug is easily accessible.
- Ensure the earth pin on the power plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.
- Do not touch the power plug with a wet hand. (This may cause electrical shock.)
- Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)
 - Do not move the TV with the cord plugged in the socket outlet.
 - Do not place a heavy object on the cord or place the cord near a high-temperature object.
 - Do not twist the cord, bend it excessively, or stretch it.
 - Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
 - Do not use a damaged power plug or socket outlet.
- If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power supply cord immediately. Continued use of the TV under these conditions might cause a fire or permanent damage to the TV. Have the TV evaluated by an Authorized Service Center. Servicing of the TV by unauthorized personnel is strongly discouraged due to its high voltage.

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

- 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 fire.

This Plasma TV radiates infrared rays;

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

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

- Display panel is made of glass. Do not apply strong force or impact to the display panel. This may cause damage resulting in injury.
- The TV is heavy. TV should be handled by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.



WARNING/CAUTION (3D Eyewear)

\Lambda WARNING

- 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 battery

• 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 Eyewear.

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 Eyewear.

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 periods.
- Use only the 3D Eyewear recommended for this TV.
- Only use the 3D Eyewear 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.
 - When you set the effect by using "3D adjustment", take into account that the vision of 3D images varies among different individuals.
- 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.

CEA CHILD SAFETY NOTICES

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

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

TUNE INTO SAFETY:

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

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

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

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

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



FCC STATEMENT

This equipment has been tested and found to comply with the limits for an Other 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 Panasonic Service Center or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to 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 Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Declaration of Conformity Model No. TC-P50GT30, TC-P55GT30

Responsible Party:	Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-877-95-VIERA (958-4372)
email:	consumerproducts@panasonic.com

This device complies with Part 15 of FCC Rules and RSS-Gen of IC 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 of this device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC and IC require this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe.

Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects.

Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

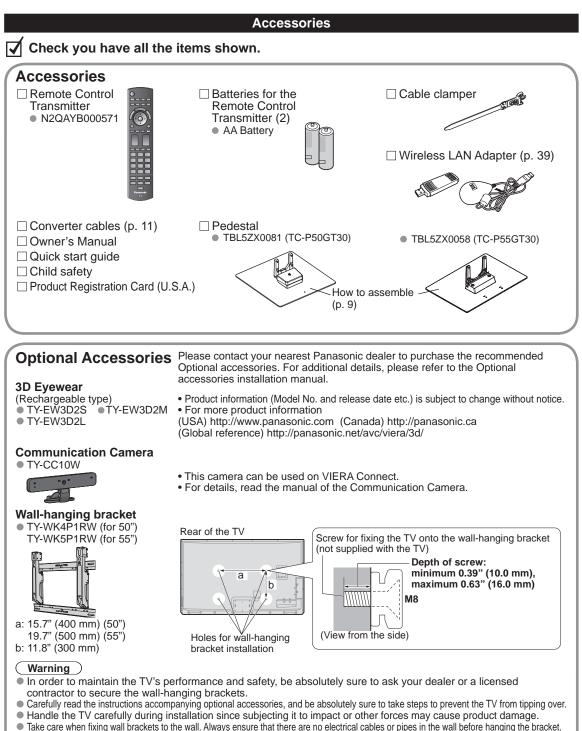
Product Identification Marking is located on the bottom of the Wireless LAN Adapter.

CANADIAN NOTICE:

For Model TC-P50GT30, TC-P55GT30

This Class B digital apparatus complies with Canadian ICES-003.

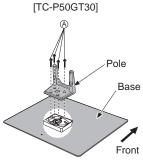
Accessories/Optional Accessories

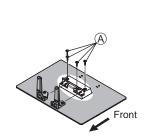


- When using the angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables not to press against the wall when the TV is tilted forward.
- For safety reasons, remove units no longer being used from their wall-mounted locations.

Assembling the pedestal

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





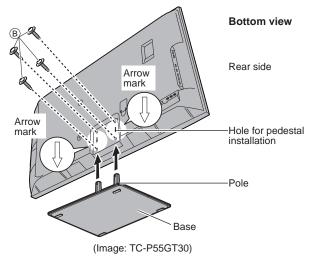
[TC-P55GT30]

• Attach pole cover with assembly screw \bigcirc (only for 50")



■Set-up

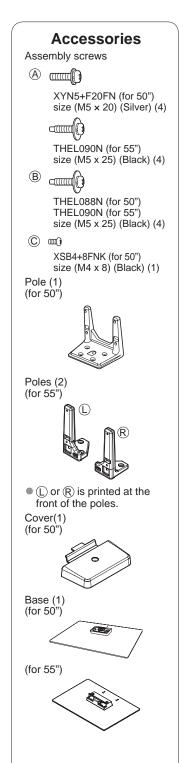
- Carry out work on a horizontal and level surface.
- Tighten assembly screws (B) (total 4 screws) loosely at first, then tighten them firmly to fix securely.



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 screw C from the cover (only for 50").
- Pull out the cover (only for 50").
- ⑤ Remove the assembly screws ④ from the pole.



Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any pedestal other than that provided with this TV.

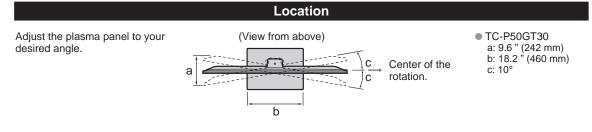
• Otherwise the TV may fall over and become damaged, and personal injury may result.

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

If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately. During set-up, make sure that all screws are securely tightened.

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

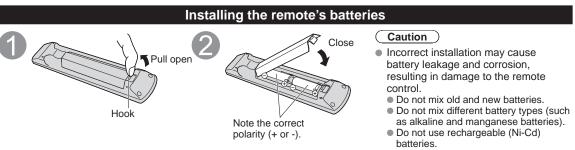
When removing the pedestal, do not remove the pedestal by any methods other than the specified procedure. (p. 9)
 Otherwise the TV and/or pedestal may fall over and become damaged, and personal injury may result.



Note

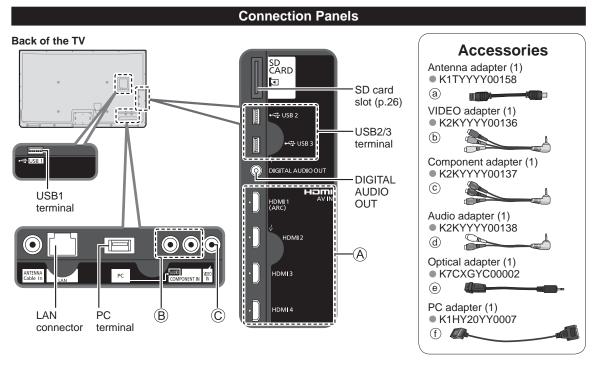
Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.

• Do not place any objects or hands within the full rotation range.

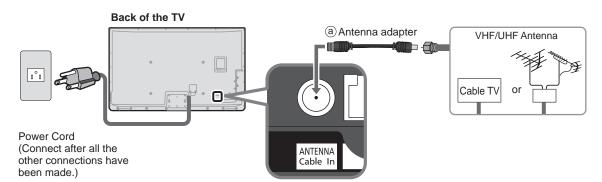


• Do not burn or break batteries.

Connections



Antenna or Cable connection



VHF/UHF Antenna

- NTSC (National Television System Committee):
 - 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.

Cable

- You need to subscribe to a cable TV service to enjoy viewing their programming.
- You may need to subscribe to a high-definition (HD) cable service to enjoy HD programming.
- The connection for high-definition can be done with the use of an HDMI or Component Video cable. (p. 12)

Note

- When using a Cable box, external equipment and video cables shown in this manual are not supplied with the TV.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com/help

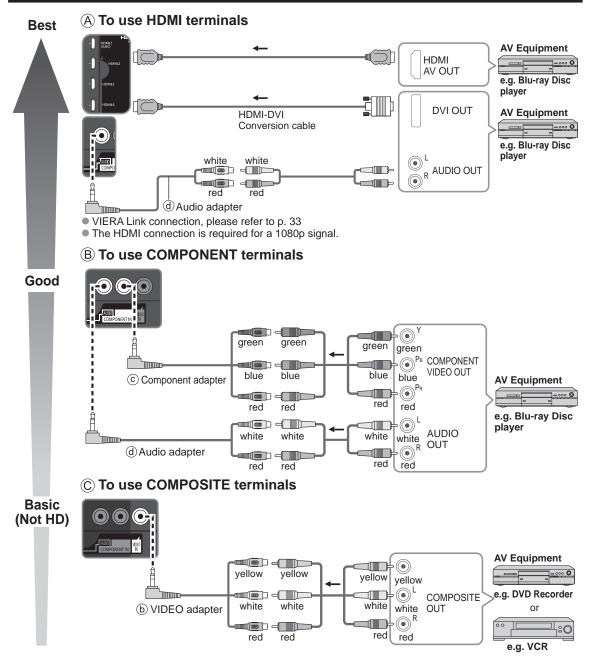
www.panasonic.ca

Getting started

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Connections Accessories/Optional Accessories

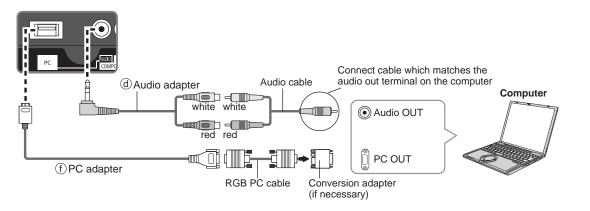
AV cable connection



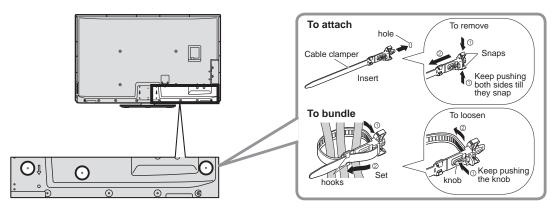
Audio connection Audio equipment Optical adapter Optical cable DIGITAL AUDIO IN DIGITAL AUDIO OUT \odot **-1**01 \bigcirc C e.g. Amplifier

• For HDMI-ARC (Audio Return Channel) connection, see p. 32





Cable Binding Instructions



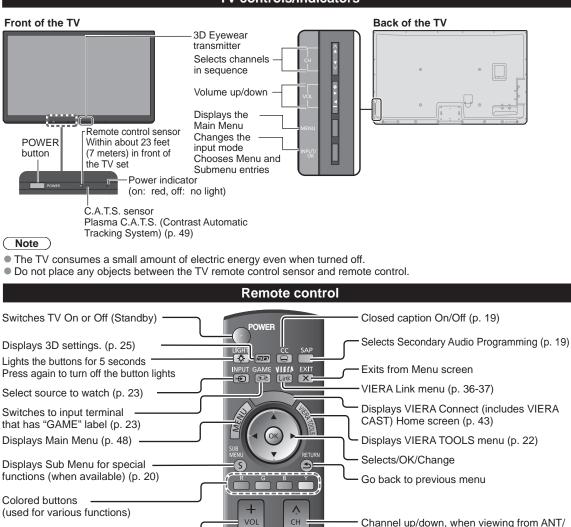
Do not bundle the Antenna cable and AC cord together (could cause distorted image).

Fasten the cables with the Cable clamper as necessary.

• When using the options, follow the option's assembly manual to fix cables.

Identifying Controls

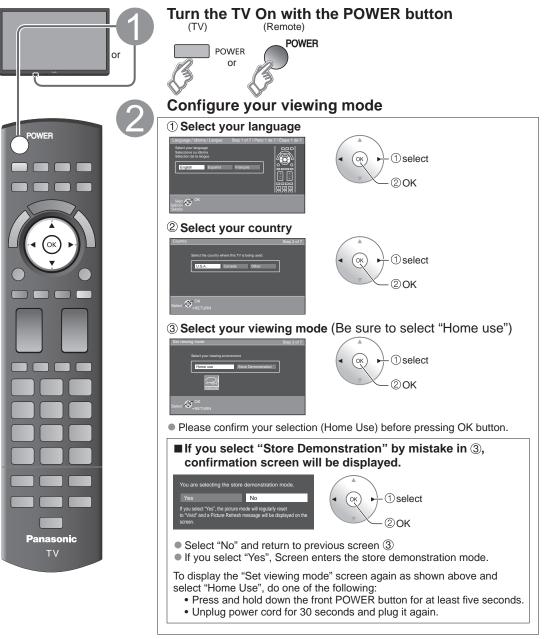
TV controls/indicators



Cable source Volume up/down F 蚁 Sound Mute On/Off Displays or removes the channel banner (p. 19) 3DEF Operates the Favorite channel list function Changes aspect ratio and zoom (p. 20) (p. 20, 55) **4**_{GH} 5JKL **6**M Numeric keypad to select any channel or 9 7PQR 8TUV press to enter alphanumeric input in menus Switches to previously viewed LAST 🛪 Use for digital channels (p. 19) channel or input . External equipment operations (p. 37) 144 . Panasonic TV

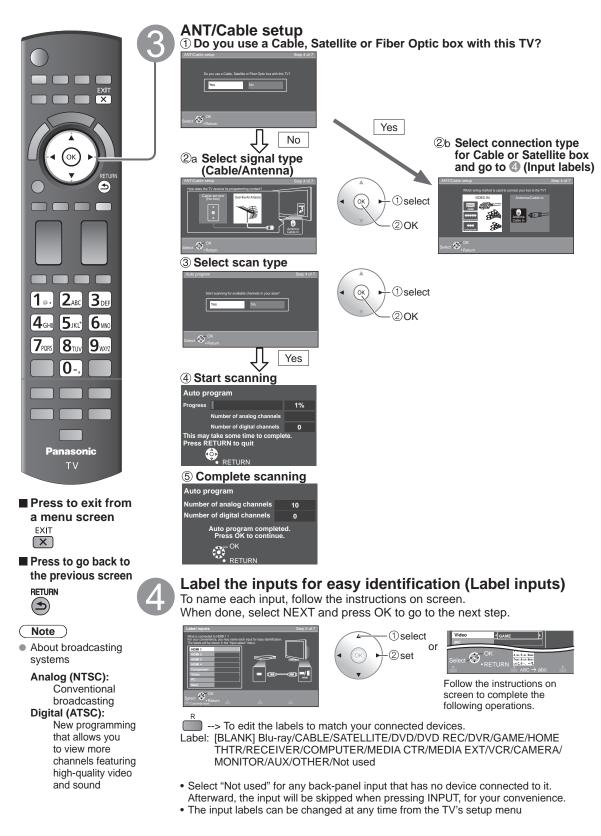
First Time Setup

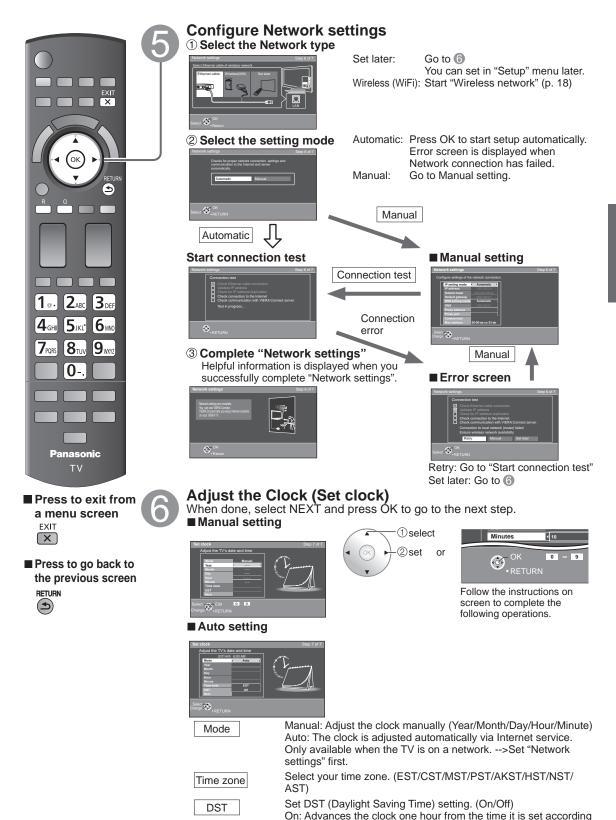
The first time setup screen is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 53) is set to "No".



Note

- If you use any other step other than ② then 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 start "First time setup". (p. 53)
- Language, ANT/Cable setup, Input labels, and Clock can also be changed in the Settings Menu. (p. 53)





to the time zone.

Getting started • First Time Setup



Congratulations! You are done.

The First time setup can be repeated at any time. Press MENU and select SETUP; then "First time setup".



To watch TV via a Cable box, Satellite receiver, or any other source (DVD, DVR, gaming device, etc.), press the INPUT button and select the appropriate input.

About wireless LAN

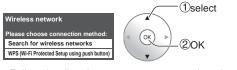
- To use the Wireless LAN Adapter, an access point needs to be obtained. For the additional information for Wireless LAN Adapters, check the following website: http://Panasonic.com/NetConnect
- It is recommended to use the Wireless LAN Adapter with the supplied extension cable.
- Do not use the Wireless LAN Adapter to connect to any wireless network (SSID*) for which you do not have usage rights. Such networks may be listed as a result of searches. However, using them may be regarded as illegal access.
- * SSID is a name for identifying a particular wireless network for transmission.
- Do not subject the Wireless LAN Adapter to high temperatures, direct sunlight or moisture.
- Do not bend, or subject the Wireless LAN Adapter to strong impacts.
- Do not disassemble or alter the Wireless LAN Adapter in any way.
- Do not attempt to install the Wireless LAN Adapter in any incompatible device.
- When VIERA Connect, Network camera, DLNA, or other device is using the network, do not disconnect the Wireless LAN Adapter.
- Check that the Access point supports WPS*. (If it does not support WPS, the encryption key of the Access point is required when configuring settings.)
- Follow the instructions on the Access point setup screen and configure the appropriate security settings.
- For more details on setting of Access point, please refer to operating manual for the Access point.
 We recommend using 11n (5 GHz) for the wireless system between the Wireless LAN Adapter and Access point.

Communication is also possible with 11a, 11b, and 11g (2.4 GHz), but the communication speed may be slower.

- If the wireless system of the Access point is changed, devices that could connect by wireless LAN may no longer be able to connect.
- Data transmitted and received over radio waves may be intercepted and monitored.
- 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.
- When noises occur due to the static electricity, etc., the TV might stop operating for the protection of the devices. In this case, turn the TV Off with power On / Off switch, then turn it On again.
- * WPS: Wi-Fi Protected Setup

Wireless network (First time setup) in

- 1 Display "Wireless network"
- 2 Select the connection method



- Follow the directions on screen to complete the setting.
- See page 41 for more information.

Press to go back to the previous screen RETURN

Panasonic

тν

Press to exit from

a menu screen

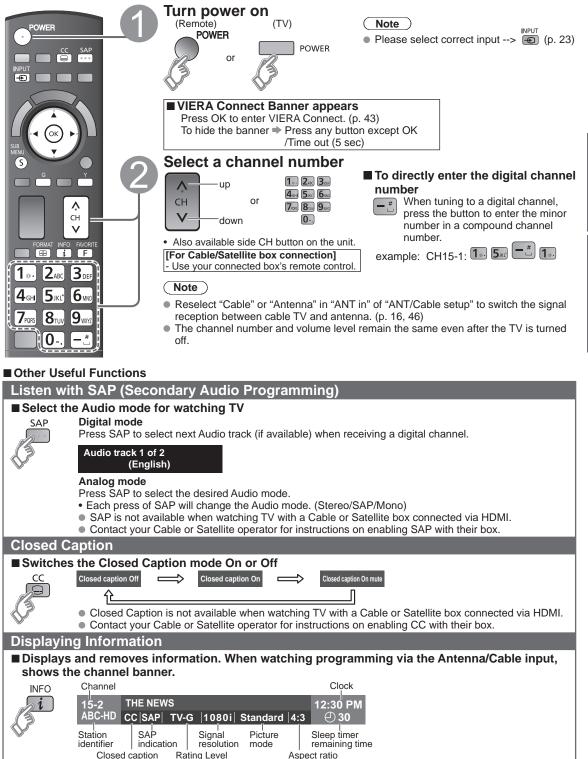
EXIT

X

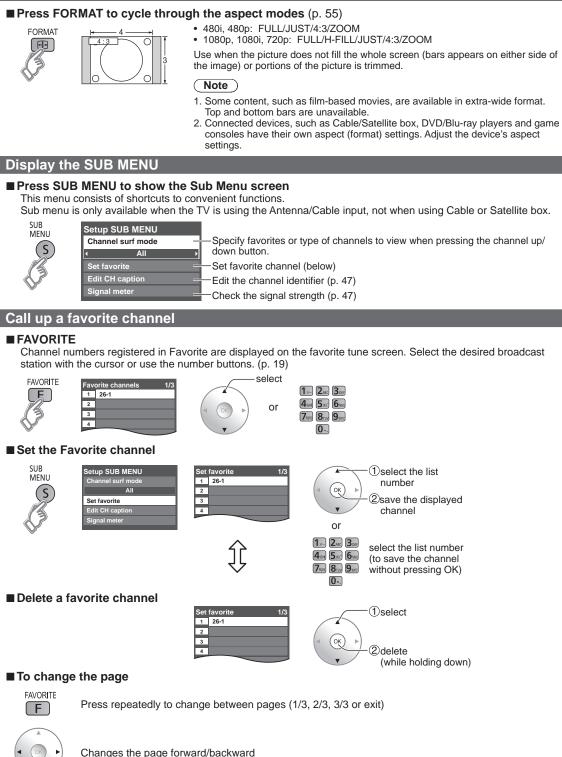
EXIT

Э

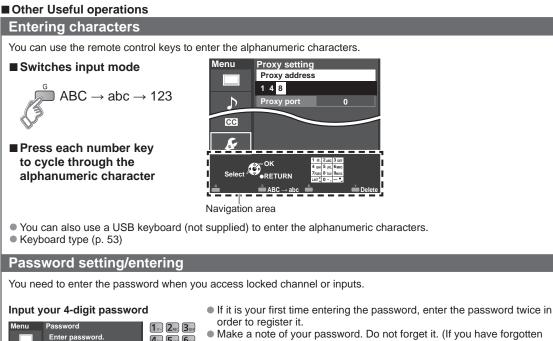
Watching TV







• Favorite channels cannot be set when using Cable or Satellite box.



Enter password. 4GHI 5JKL 6MK 7PORS 8TUN 91117 ♪ 0-. (**i**)

- If it is your first time entering the password, enter the password twice in
- your password, consult your local dealer.)
- When you select a locked channel, a message will be displayed that allows you to view the channel after you input your password.
- Change password (p. 52)

Operate USB keyboard

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

■ Kev chart

A

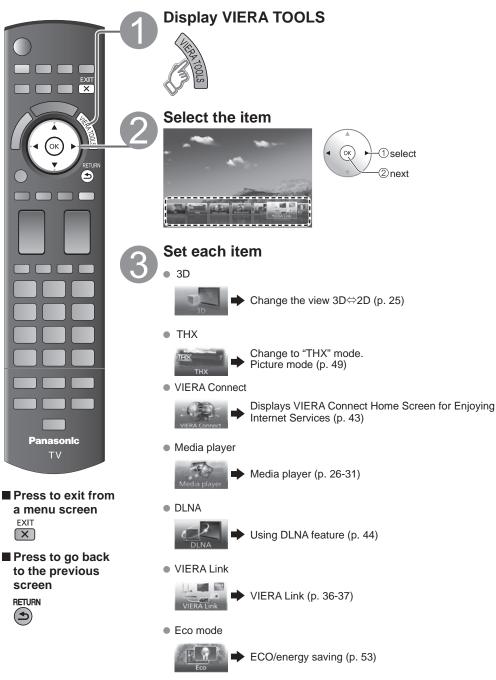
Keyboard key	Remote key	Keyboard key	Remote key
UP/DOWN/LEFT/RIGHT	Cursor key	F4	Input
Enter	OK	F5	Channel Down(-)
BackSpace	Return (when you do not input character)	F6	Channel up(+)
0-9	0-9	F7	Volume Down(-)
F1	Menu	F8	Volume up(+)
F2	VIERA Tools	F9(Red)/F10(Green)/ F11(Blue)/F12(Yellow)	Color key
F3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

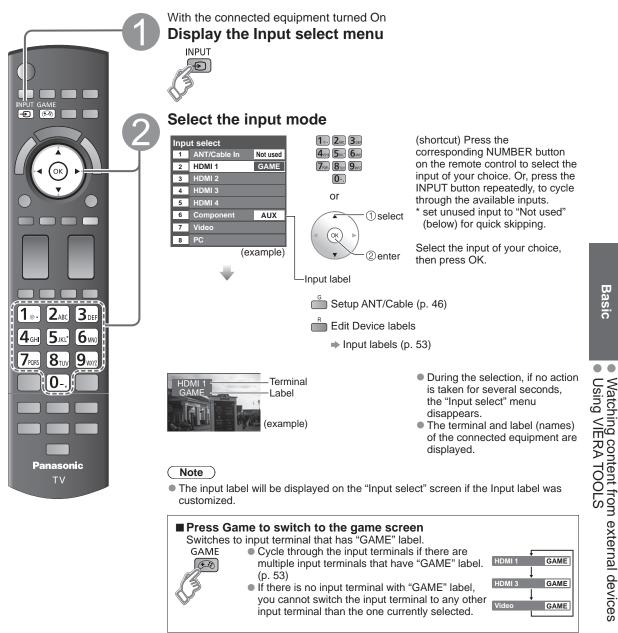
Some keyboards do not have these keys.

Using VIERA TOOLS

VIERA TOOLS is the easy way to access the TV's special features. They are displayed as shortcut icons on the TV screen.



Watching content from external devices



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

Note

- For details, see the manual for the connected equipment.
- PC adjustments (p. 50)

Basic

Viewing 3D images on TV

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 correctly.

Cautions During Viewing

- Do not expose the infra-red receiver section to strong light such as direct sunlight and fluorescent light. The 3D image
 may not be displayed correctly.
- 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 backto-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 eyesight 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 50-inch television, 6'2" (1.9 m) or more.

For a 55-inch television, 6'8" (2.1 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 distance.)

Viewing 3D images

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

You can watch 3D images in the following cases:

- 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.
- 2D->3D (Simulated 3D) ⇒ p. 56

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).

Wearing the 3D Eyewear

1 Turn on the 3D Eyewear 2 Put on the 3D Eyewear

2

View

When the HDMI receives information in which 3D mode is detected, 3D images are automatically displayed according to the signal.

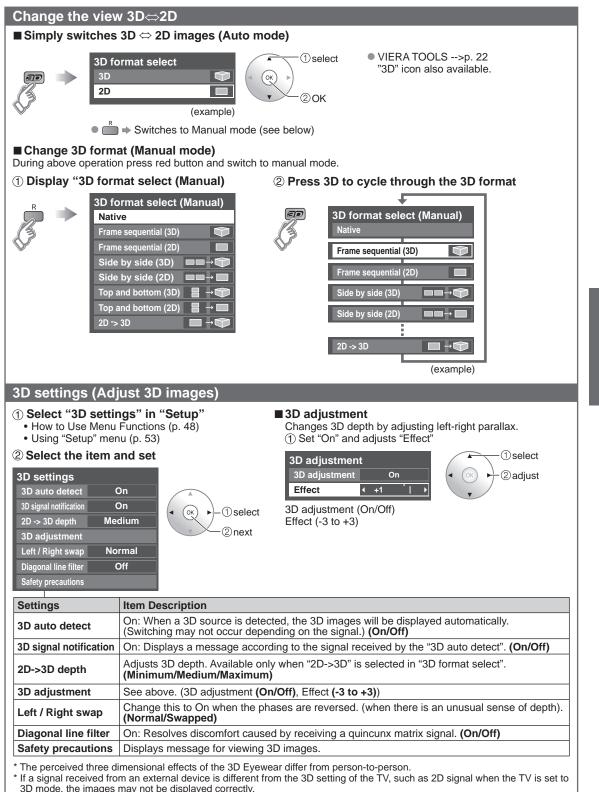
If the 3D images are not displayed correctly or the images cause discomfort, the images can be adjusted by "3D format select" or "3D settings".

● Change the view 3D⇔2D, 3D settings (p.25)



After Use ① Turn off the 3D Eyewear.

2 After using the 3D Eyewear, store it in the case provided.



25

Basic

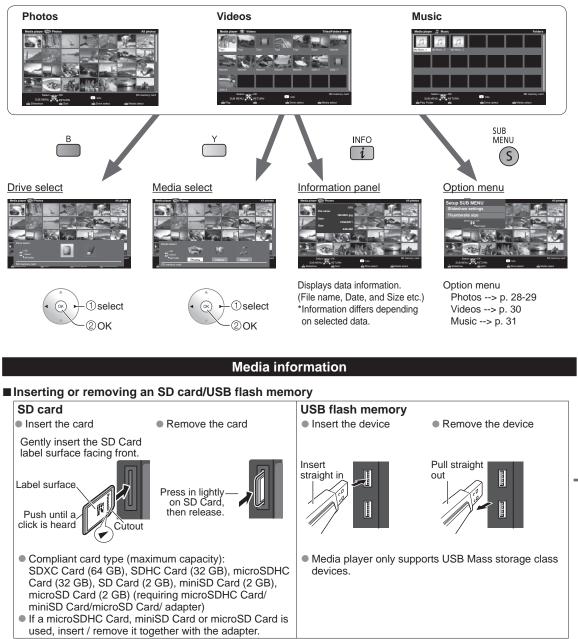
Viewing 3D images on TV

Using Media player

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

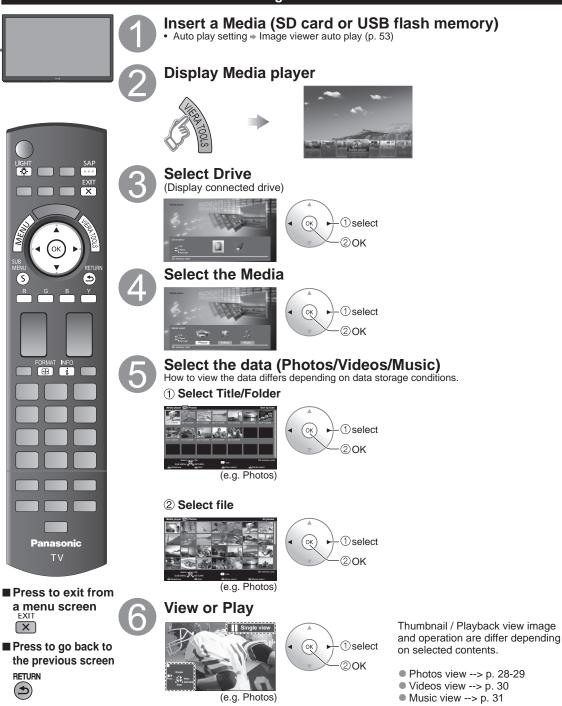
Basic features for Media player

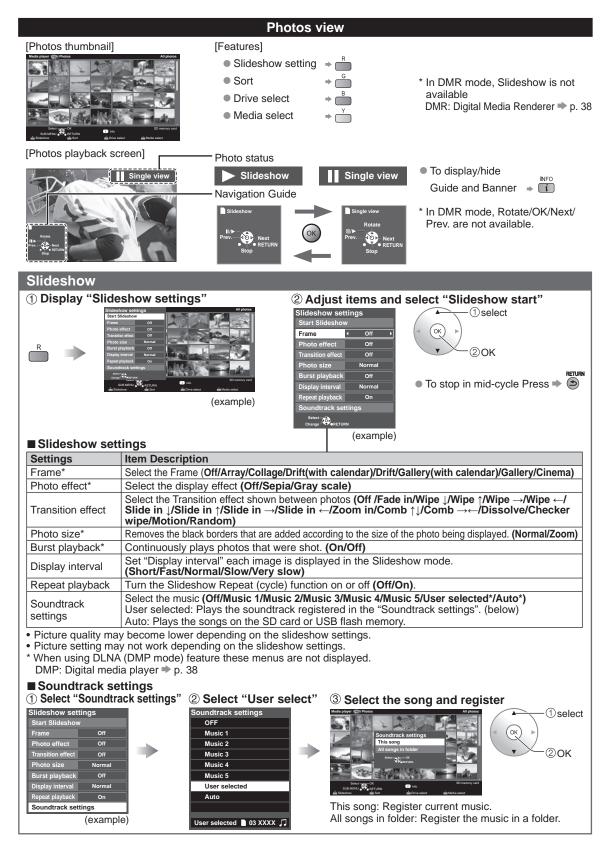
Available contents and features

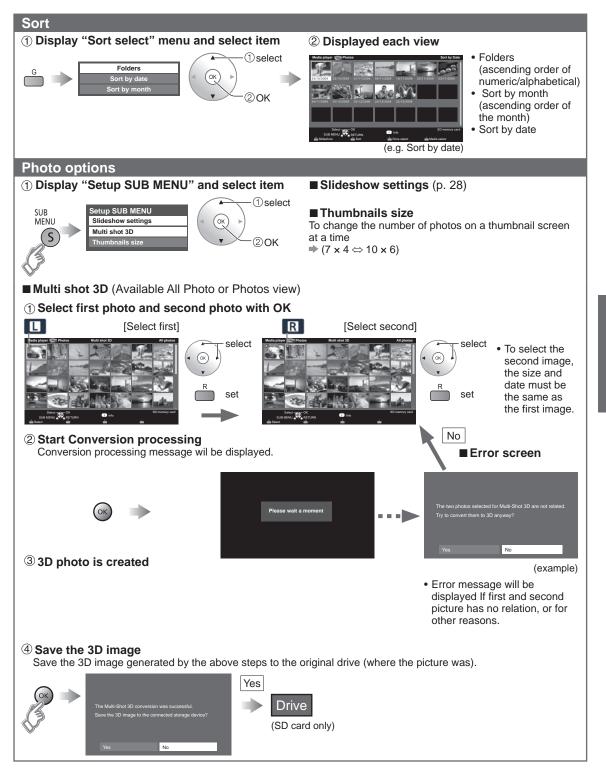


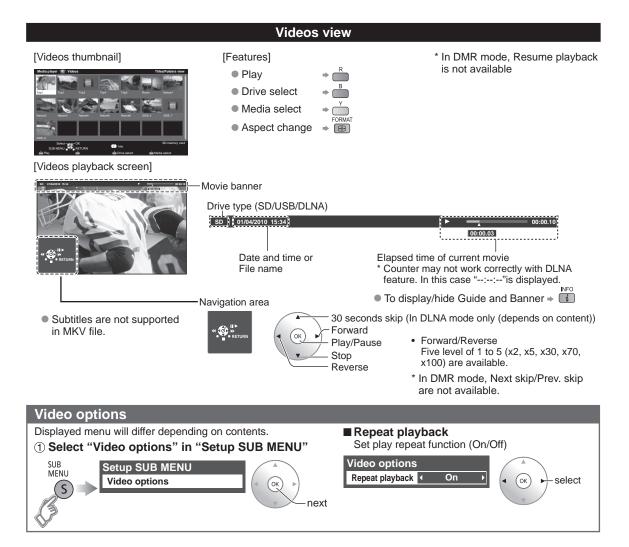
For more information and cautions on SD card and USB flash memory (p. 56)









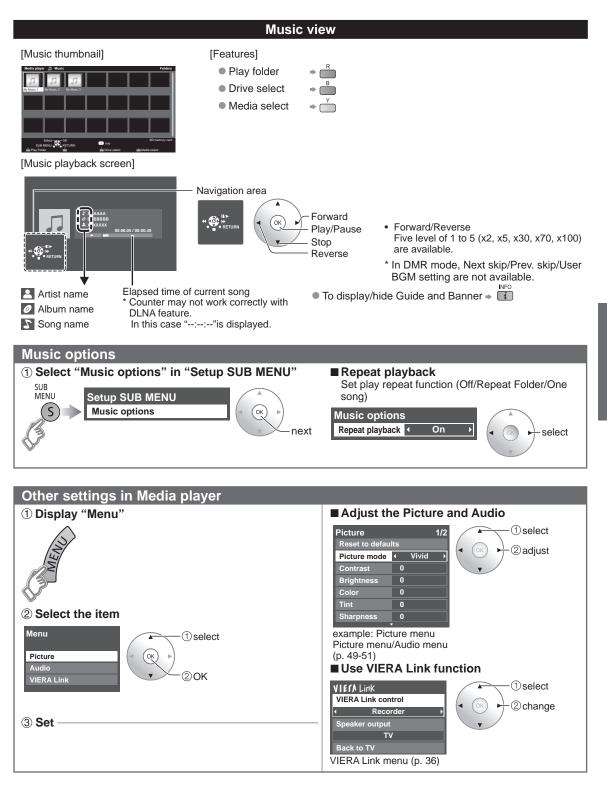


Compatible Data format for Media player (SD card/USB flash memory)/DLNA

Media	Compatible format
Photo	JPEG files (DCF and EXIF standards) Sub-sampling - 4:4:4, 4:2:2 and 4:2:0 Image resolution - 8 × 8 to 30,712 × 17,272 pixels
Videos	 SD-Video Files (SD-Video Standard Ver.1.3) Modified data with a PC may not be displayed correctly. AVCHD Standard compatible files Modified data with a PC may not be displayed correctly. MotionJPEG files (taken with LUMIX)* MP4 files (Video codec H.264 Audio codec MP3/AC-3/LPCM) MKV files (Video codec H.264 Audio codec MP3/AC-3/LPCM) MPEG-2 PS files** MPEG-2 TS files**
Music	 MP3 files (MPEG Audio Layer-3) AAC files (MPEG2-AAC / MPEG4-AAC) LPCM files**

• For more data format information. (p. 56)

* For Media player only



Basic

VIERA Link[™] "HDAVI Control[™]"*

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote. Enjoy additional HDMI Inter-Operability with compatible Panasonic products.

This TV supports "HDAVI Control 5" function.

Connections to equipment (DVD recorder DIGA, HD Camcorder, Home theater system, Amplifier, etc.) with HDMI cables enables VIERA Link controls.

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

Version	Operations (See p. 34-37, for more information)	
HDAVI Control or later	 Automatic Input Switching Power on link Power off link Default speakers Speaker control 	
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control Unselected device energy save (for available equipment only) 	
HDAVI Control 3 or later	 Provides setting information (Language, time. etc.) Automatic lip-sync function 	
HDAVI Control 4 or later	Energy saving mode (with Quick Start mode)	
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 back from the TV to a connected audio device. 	

■ 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, HDMI 2, HDMI 3, HDMI 4 (p. 23), and make sure that the image is displayed correctly.

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

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

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.

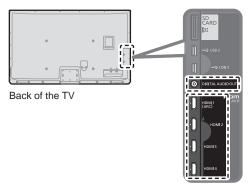
It is recommended that you use Panasonic's HDMI cable. Recommended part number:

RP-CDHS15 (4.9 ft/1.5 m), RP-CDHS30 (9.8 ft/3.0 m), RP-CDHS50 (16.4 ft/5.0 m)

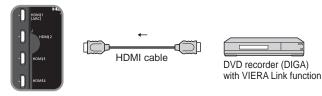
* For more details on the external equipment's connections, please refer to the operating manual for the equipment.

VIERA Link[™] Connections (with VIERA Link function)

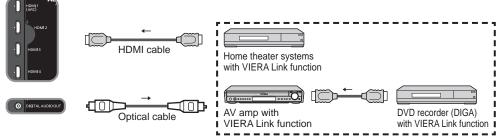
Terminal overview



Connecting DVD Recorder (DIGA)



■ Connecting Home theater system/AV amp HDMI 1 is recommended.

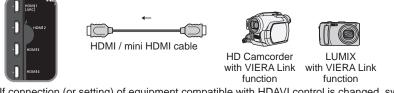


No optical cable is necessary when connecting a Home Theater supporting "HDAVI control 5" with an HDMI cable. Audio will be supported via ARC (Audio Return Channel) (p. 32)

One AV amp and one DVD recorder (DIGA) can be operated with this unit.

Connecting HD Camcorder/Digital camera

Press INPUT and select an available HDMI terminal, then connect the camcorder to this input. After connection, confirm the HDAVI control functions. (p. 34-37)



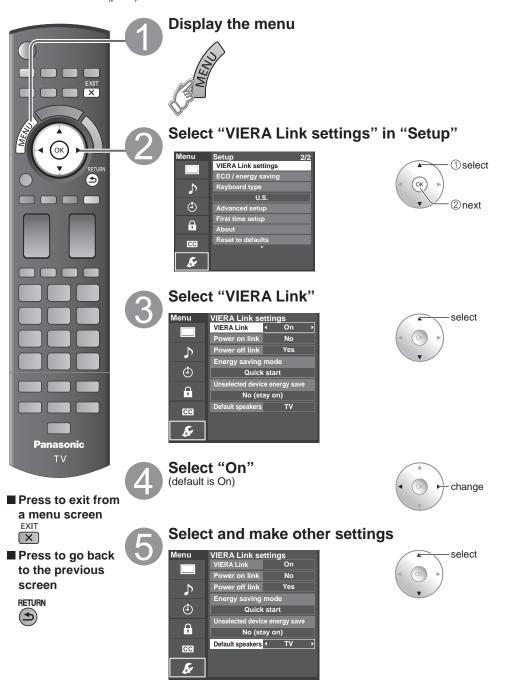
If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off and On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that the connected equipment playback operates.

Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective 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.)
- Some devices use Mini-HDMI terminal. HDMI (type A) to Mini-HDMI (type C) cable or adapter should be used.

VIERA Link settings and Available features

To use all VIERA Link functions: After everything is connected, in VIERA Link settings menu, set "VIERA Link" to "On". Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 32)



Advancec

Automatic Input Switching

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.

Power on link

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

Power off link

When "Yes" is selected 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.
- The TV remains on even if the VIERA Link compatible equipment is turned off.

Energy saving mode

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

- Power off link: (Yes), The connected equipment has "HDAVI Control 4 or later (with Quick Start mode)"
- * Minimum power consumption of Standby condition for the equipment.

Unselected device energy save

Yes: The connected VIERA Link compatible equipment will be turned off automatically when not in use under these conditions.

- The connected equipment has "HDAVI Control 2 or later" (for available equipment only)
- [Example of timing for operation]
- When the input is switched from the HDMI.

Default speakers

"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.

Automatic lip-sync function

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

TV provided setting information

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

Transmittable data	Recorder	Home theater	Player
 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		

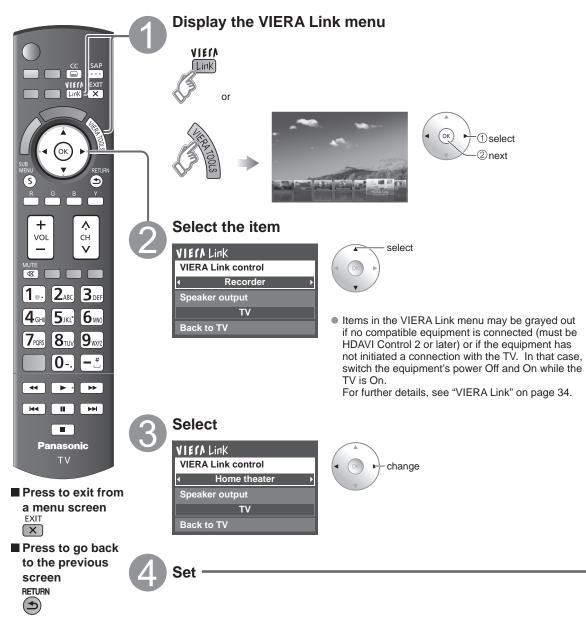
Note

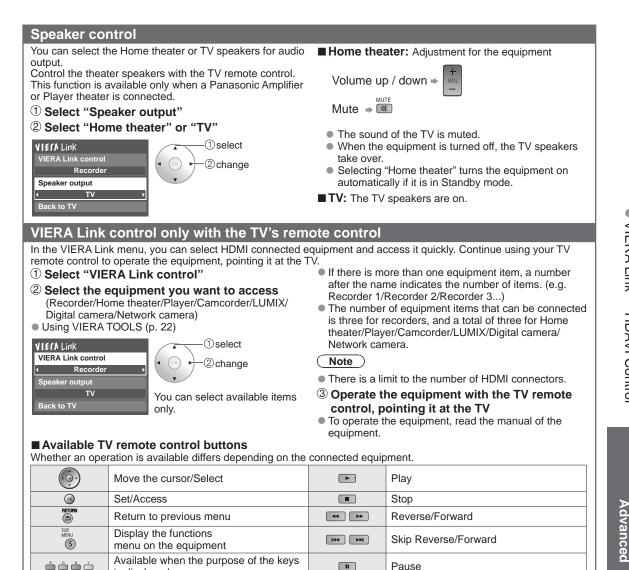
 There is a possibility that all the GUI language information might be set from equipment that has an HDMI CEC function connected to the TV with an HDMI cable. Depending on the operating conditions or the specification for each piece of equipment the setting may or may not be applied.

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

VIERA Link menu and Available features

Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 32)





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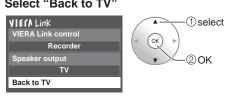
SAP

-:

Closed caption

SAP (Select Audio Mode)

Select digital subchannel



is displayed on screen

Channel Up/Down

Exit

0-9

Returns the input selection of the device selected with the VIERA Link Control to the TV input. **Select "Back to TV"**

EXIT

0-. - 9....

Back to TV

Using Network services

Available Network service and features

■VIERA Connect → p. 43

Easily expandable cloud-based services and carefully selected apps.

■ Using DLNA feature (Home network) → p. 44

This TV is a DLNA Certified[™] product.

DLNA (Digital Living Network Alliance) is a standard that makes DLNA Certified digital electronics easier and more convenient to use on a home network. To learn more, visit www.dlna.org.

It allows you to share photos, videos and music stored in the DMS (for example, PC with windows 7 installed, etc.) connected to your home network, and enjoy watching them on the TV screen as DMP or DMR.

DMS (Digital Media Server)

Ensure the connected equipment has a DLNA Certified media server.

Store photos, videos or music into the media server, and then you can watch them on the TV.

"Windows 7" is the server software that has been tested for the performance with this TV (current as of January, 2011). For installing, read the manual of the server software.

The DLNA control function of Windows 7 is not supported with this TV.

When a server software for the media server is installed on the PC, the data may be at risk of being accessed by other people. Please take care of the settings and connections under the network circumstances at the office, hotel or even at home when not using a router.

DMP (Digital Media Player)

Finds the content on DMS and provides playback.

DMR (Digital Media Renderer)

Plays content received from DMC, which will find content form DMS.

DMC (Digital Media Controller)

Finds the content on DMS and play it on DMR (This TV). (e.g. PDA, Internet tablets etc.)

■ Using Network camera ⇒ p. 45



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 6 Mbps for HD picture quality, respectively.
- Dial-up Internet service cannot be used for VIERA Connect.



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) Wired connection (Directly connected)

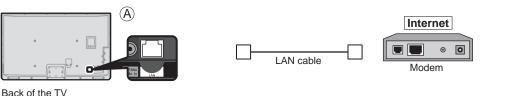
If you are not using the network for connecting anything else but the TV, you could just connect the TV directly to the Cable/DSL Ethernet connection.

(B) Wired connection (Using Router)

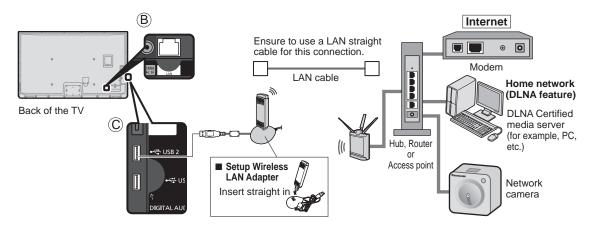
If you are using the network for connecting various equipment and want to connect the TV, you should use a router to connect the TV to the Internet

© Wireless connection

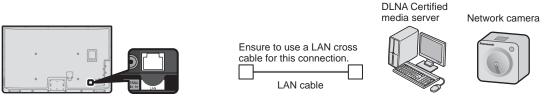
If you are using the network for connecting various equipment and want to connect the TV, you could also use a Wireless LAN Adapter and Access point to connect the TV to the Internet



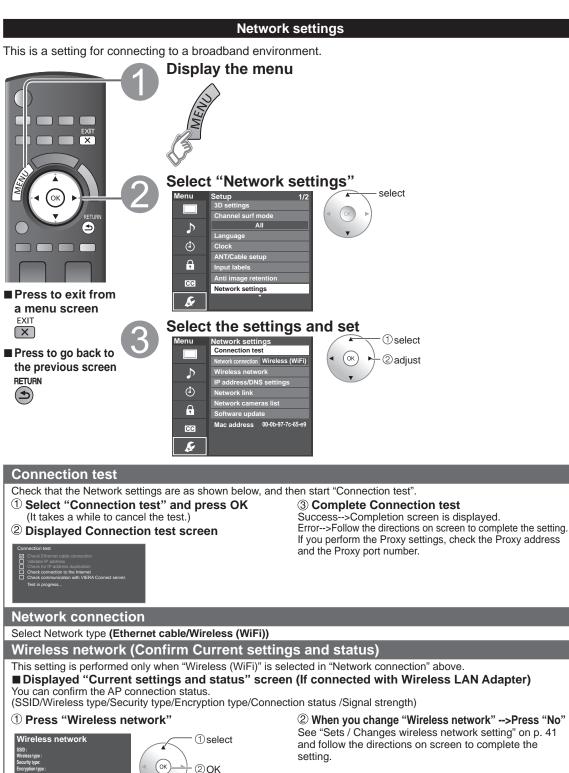




To use only DLNA features or Network camera, you can operate the features without Broadband network environment.



Back of the TV



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

40

No

(example)

Yes

Wireless network (Wireless network setting)

Sets / Changes wireless network setting

① Press "Wireless network" and display setting screen

2 Follow the directions on screen to complete the setting

Wireless network

Please choose connection method: Search for wireless networks WPS (Wi-Fi Protected Setup using push button) WPS (Wi-Fi Protected Setup using PIN number) Manual settings



* Wi-Fi Protected Setup is an easy setting of the Wi-Fi Alliance's certification

• For more details on setting of an 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.

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

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.

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.

IP address/DNS settings

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

(When IP/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.

Manual setting

- 1 Select "IP/DNS 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.

Or Enter each IP address as was specified by the provider



Proxy setting

Set only if specified by the provider. It is not required for normal household use.

① Select "Proxy setting"

enu	IP address/DNS setti	ngs	(1)se
	IP setting mode	Automatic	
	IP address	192.168.0.5	
Σ	Subnet mask	255.255.255.0	
	Default gateway	192.168.0.254	
٩	DNS setting mode	Automatic	
	DNS	192.168.0.20	v
A	Proxy setting		

② Select item and press OK



③ Enter address or port number and press OK

Entering characters (p. 21)

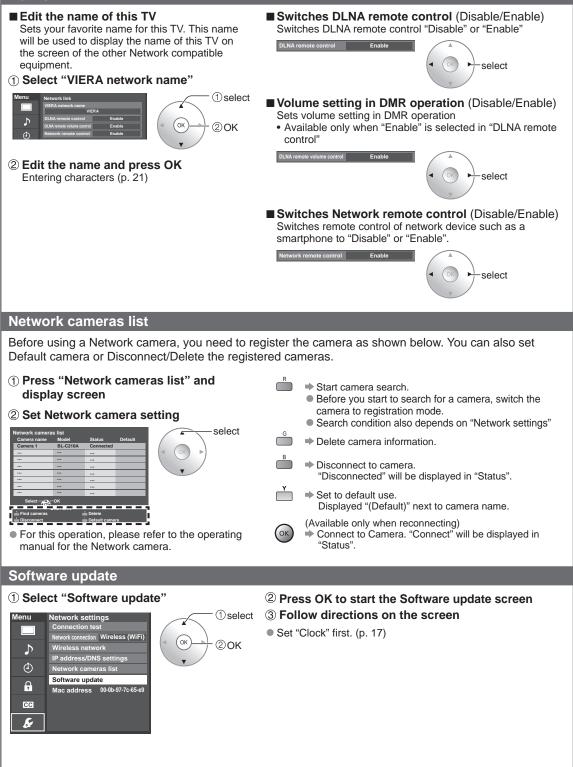
Proxy address

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

Proxy port

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

Network link



VIERA Connect (Enjoy Internet Service)

You can access Internet services from the VIERA Connect Home screen. • You need a broadband environment to use this service.

Press to exit from a menu screen EXIT

Press to go back to the Home screen



Preparations

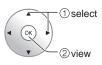
- Network connections (p. 39)
- Network settings (p. 40-42)

Display the Home screen



Select the item and press OK





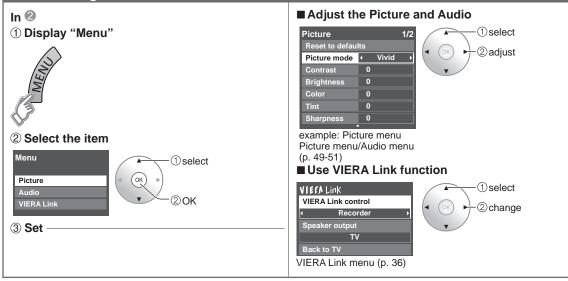
Video communication (e.g. Skype™) requires an exclusive Communication Camera TY-CC10W (p. 8).

- 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 Connect allows you to access only to websites supported by Panasonic and has no full browser function.
- VIERA Connect contents are subject to change without notice.
- Not all VIERA Connect 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

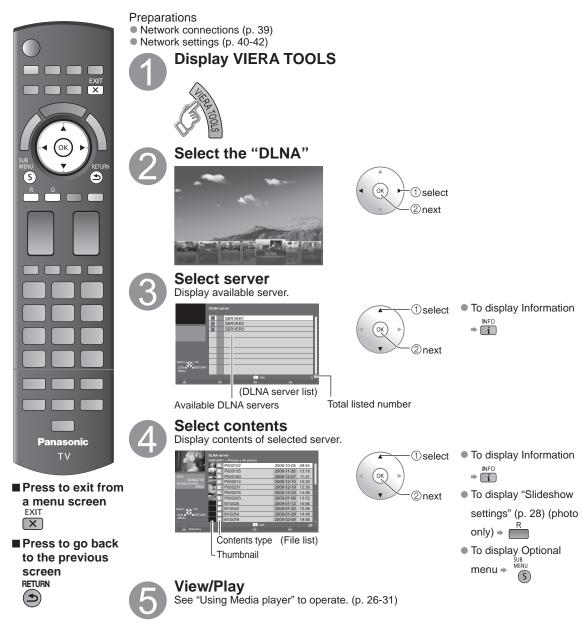
- Keyboard type (p. 53)
- Operate USB keyboard/Entering characters (p. 21) (Also available Game pad)

Other settings



Using DLNA feature

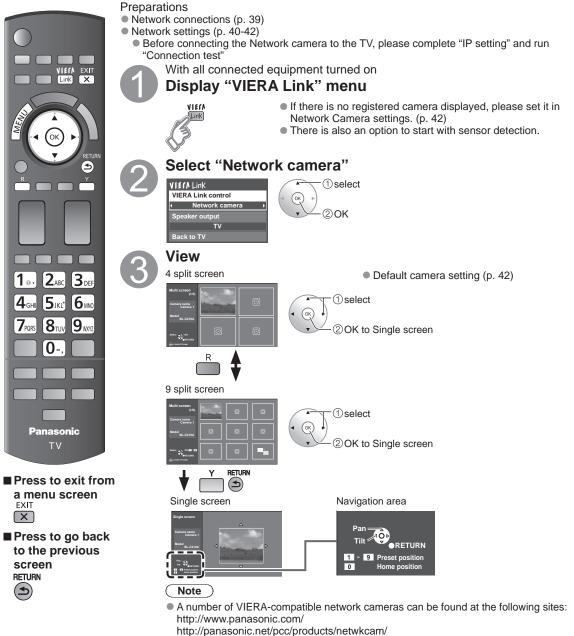
You can share the contents (Photo, Video, Music etc.) stored in DLNA Certified media server with your home network system.



Network Camera

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

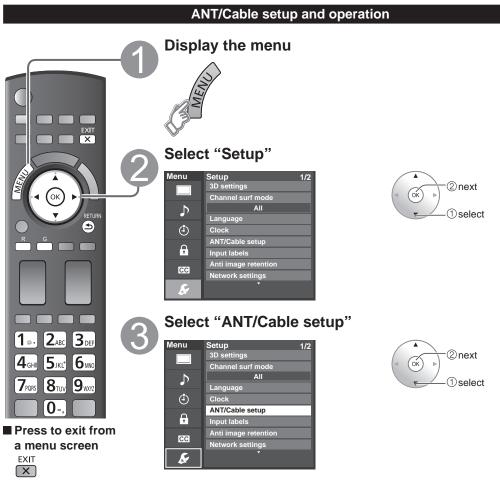
VIERA Link control only with the TV's remote control (p. 37)



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

Editing and Setting Channels

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



Auto program (Set automatically)

Automatically searches and adds available channels to the memory.

① Select "ANT in"

Select "Cable" or "Antenna" Or select "Not used".

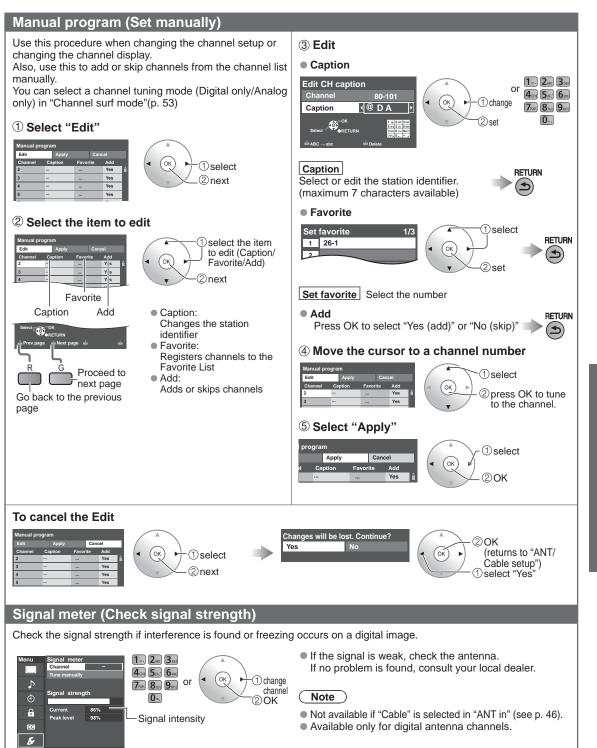
² Select "Auto program"



③ Select a scanning mode (p. 16)

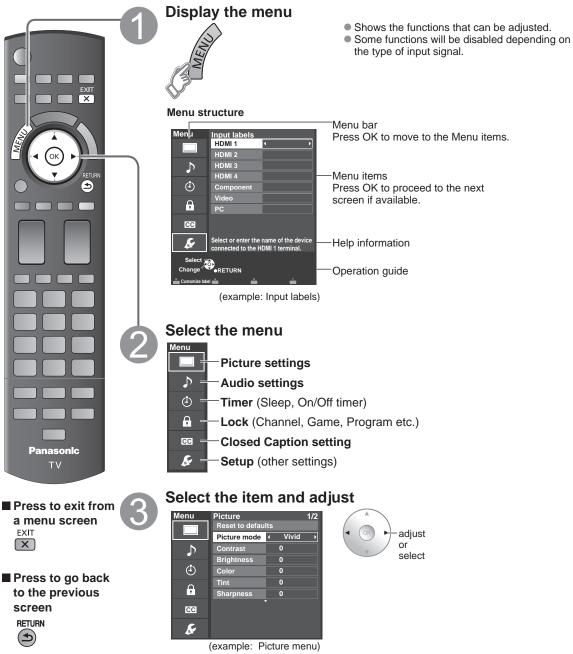


- After the scanning is completed, select "Apply". (see p. 47 (5)).
- All previously saved channels are erased.



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.



• "Reset to default" will be grayed out if no changes are made in the following menus: "Picture", "Pro settings", "PC adjustments", "Audio and Closed caption".

Settings	Items	Item Description		
Reset to defaults		Resets all picture a picture".	djustments to factory default settings except for "Advanced	
Picture mode (Each setting	Vivid	Provides enhanced room.	picture contrast and sharpness for viewing in a well-lit	
(2D/3D mode)	Standard	Recommended for	normal viewing conditions with subdued room lighting.	
will be retained	Cinema	For watching movie	s in a darkened room. It provides a soft, film-like picture.	
independently.)	тнх	Recommended for THX mode is used faithfully reproducin	es the original quality of the image without any revision. playback of THX disc (disc with "THX" logo). to mirror the picture settings used by professional filmmakers, g the image quality of THX Certified movies. vies have the "THX" logo on a disc.	
	Game	For playing video g	ames.	
	Custom (Photo)	Customizes each ite Photo is displayed i	em according to your taste. n JPEG menu.	
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.	Cool 2/1/Normal/ Warm 1/2	Selects a choice of Cool (blue), Normal, or Warm (red) color.		
Color mgmt.	Off/On	On: Enhances gree	en and blue color reproduction, especially outdoor scenes.	
Photo enhancement	On/Off	Provides appropriate picture when still images are input.		
C.A.T.S.	Off/On	Automatically adjus condition.	ts the screen brightness according to the ambient lighting	
Video NR	Off/Weak/ Medium/Strong	Reduces noise, cor	nmonly called snow. Leave it off when receiving a strong signal.	
Pro settings	Reset to defaults		Resets all Pro setting adjustments to factory default settings.	
(Adjust the	Color space	Wide/Normal	Adjust the color representation in panel color gamut.	
'Picture mode"	W/B high R, G, B		Adjusts the white balance for light red/green/blue areas.	
setting in more detail.)	W/B low R, G, B		Adjusts the white balance for dark red/green/blue areas.	
uetall.)	Black extension		Adjusts the dark shades of the image in gradation.	
	Gamma	S-curve/1.8/2.0/	Gamma correction. Adjusts the intermediate brightness of the	
	adjustment	2.2/2.4/2.6	image.	
	Panel brightness	High/Mid/Low	Selects the display panel brightness.	
	Contour emphasis	Off/On	Adjusts the contour emphasis of the image.	
	AGC	0-15	Increases the brightness of dark signal automatically.	
	Save as default		Save all "Picture" (when "Picture mode" is "Custom") and "Pro	

Settings	Items	Item Description		
	grayed out depending tments" will be grayed			
Aspect adjustments	Screen format	FULL/H-FILL/ JUST/4:3/ZOOM	Changes the format (aspect ratio). Lets you choose the aspect depending on the format of received signal. (p. 55)	
	HD size	Size 1/Size 2	 Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. 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 % 	
	H size	Size 1/Size 2	Adjusts the horizontal display range to reduce noise of both side edges of an image. Size 2: Adjusts the image size according to the aspect mode to reduce noise. (p. 55)	
	Zoom adjustments	Adjusts vertical aligr	ment and size when aspect setting is "ZOOM".	
PC adjustments	Reset to defaults	Resets PC adjustme	ents.	
	Sync	H & V	The H and V sync signals are input from the HD/VD connector. (p. 58)	
		On green	Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 58)	
	Dot clock	Alleviates the problem	if a picture appears to be vertically-striped, flickers partially or is blurred.	
	H-position	Adjusts the horizont	al position.	
	V-position	Adjusts the vertical p		
	Clock phase	First adjust the Dot of so that a clear picture	Im if the whole picture appears to flicker or is blurred. Clock to get the best possible picture, then adjust the clock Phase re appears. Sible to display a clear picture due to poor input signals.	
	Input resolution	 Switches to wide display. VGA (640×480 pixels), WVGA (852×480 pixels), XGA (1,024×768 pixels), WXGA (1,280×768 pixels) Options change depending on signals 		
	H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal:15 - 110 kHz Vertical: 48 - 120 Hz		
HDMI settings	HDMI/DVI RGB range (HDMI 1-4)	Auto/ Standard (16-235)/ Nonstandard	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: Switches the RGB range (Standard (16-235)/ Nonstandard) depending on the HDMI signal information.	
	Contents type (HDMI 1-4)	Off/Auto/Photo/ Graphics	Sets content type to each HDMI input. Auto: Switches content type automatically depending on the HDMI signal information. Photo: Best setting for JPEG viewing. Graphics: Best setting for On-Screen display of connected equipment.	

Settings	Items	Item Description	
	grayed out depending " will be grayed out if		r condition. h definition or you are viewing photos, etc.)
Advanced	3D Y/C filter	Off/On	Minimizes noise and cross-color in the picture.
picture	Color matrix	SD/HD	Selects image resolution of component-connected devices. SD: Standard Definition HD: High Definition Only used with 480p video signal.
	Block NR	Off/On	Reduces noise of specific digital signals of DVD, Cable box, etc.
	Mosquito NR	Off/On	Reduces HDTV flicker noise in the contoured sections of an image
	Motion smoother	Off/Weak/Strong	Improved moving picture quality by reducing motion blur.
	Black level	Dark/Light	Selects Dark or Light. Valid only for external input signals.

Off/On/Auto

96Hz/60Hz/48Hz

3:2 pulldown

24p Direct in

Adjusts the picture recorded in 24 fps for optimum quality. 96Hz/48Hz: Achieves more cinematic playback by reproducing the movie contents at 2 or 4 times the speed of 24 frames per second. If flicker is seen using 48Hz, please use 60Hz or 96Hz.

♪ Audio setti	ngs Adjust <i>i</i>	Audio quality	
Settings	Items	Item Description	
Reset to defaults		Resets Bass, Treble, and Balance adjustments to factory default settings.	
Bass		Increases or decreases the bass response.	
Treble		Increases or decrea	ases the treble response.
Balance		Emphasizes the lef	t / right speaker volume.
Advanced audio	A.I. sound	Off/On	Equalizes overall volume levels across all channels and external inputs.
	Surround	Off/On	Enhances audio L/R response when listening to stereo.
	Bass boost	Off/On	Enhances bass sound and provides powerful sound.
	Volume leveler		Minimizes volume disparity after switching to external inputs.
	TV speakers	Off/On	Switches to "Off" when using external speakers. Off: "A.I. sound", "Surround", "Bass boost" and "Volume leveler" do not work if "Off" is selected.
	HDMI 1-4 in	Digital/ Component/ Video	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)

① Timer settings The TV can automatically turn On/Off at the designated date and time.

If the Timer settings are grayed out, first set the clock (see p. 53) and make sure "Auto power on" is set to "No" (see p. 53)

Settings	Items	Item Description	Item Description		
Sleep (Off timer)	Sleep (minutes)	Off/15/30/60/90	Select how long for the TV to automatically turn off.		
Timer 1-5	Timer set	Enables or disables	nables or disables this timer. (Off/On)		
(On/Off timer)	Inputs	Sets the input to se	lect when the TV turns on.		
	Channel	Sets the channel to	select when the TV turns on.		
	Day	MON-FRI/SAT-SUN	the TV turns on. ED/THU/FRI/SAT(displays the nearest future date) I/DAILY/Every SUN/Every MON/Every TUE/Every /ery FRI/ Every SAT]		
	On time	Sets the time when specified.	the TV turns on. The TV will turn off after 90 minutes or as		
	Off time	Sets the time when	the TV turns off within 24 hours.		

Lock Locks specified channels or shows to prevent children from watching objectionable content.

You will be asked to enter your password each time you display the Lock menu. • Password setting/entering (p. 21)

Set "Custom" in "Mode" to specify "Channel", "Game", "Program" and "VIERA Connect" settings.

Settings	Items	Item Description	
Mode	Off	Unlocks all the Lock settings of "Channel", "Game", "Program" and	"VIERA Connect".
	All	Locks all the inputs regardless of the Lock settings of "Channel", "C and "VIERA Connect".	Game", "Program"
	Custom	Locks specified inputs of "Channel", "Game", "Program" and "VIER	A Connect".
Channel (These channels will be blocked regardless of the	Mode	Set channel lock status. (Off/All/Custom) All: Locks all channels Off: Unlocks all channels Custom: Locks specified channels. Set "Channel 1" - "Channel 7"	
program rating.)	Channel 1-7	Select a channel to lock. (Select up to 7 (1-7) channels to block.)	
Game	On/Off	Locks Channel 3, Channel 4, and external inputs.	
Program (To set a rating	Mode	Set program lock status. (Off/On) "V-chip" technology enables restricted shows to loc according to TV ratings. On: Set each rating level (MPAA, US.TV, C.E.L.R., C.F.L.R.)	
level)	MPAA	Select U.S. movie ratings to lock.	
	U.S.TV	U.S. TV program ratings.	For more information
	C.E.L.R.	Canadian English ratings.	(p. 54)
	C.F.L.R	Canadian French ratings.	
VIERA Connect	On/Off	Locks VIERA Connect. When you access VIERA Connect, the "VIERA Connect Lock screen is displayed. Type the correct password to enter the Home screen.	
Change password		Change the password. Input the new 4-digit password twice.	

• 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.

Closed caption Display 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)

Settings	Items	Item Description
Reset to defaults		Resets all Closed caption settings to factory default settings.
Mode	On/Off/ CC on mute	On: To display Closed captions. CC on mute: To display Closed captions when the audio is muted. (When not using, select "Off").
Analog	CC1-4/T1-4	Choose the Closed caption service of Analog broadcasting. CC1-4: Information related to pictures (Appears at the bottom of the screen) T1-4: Textual information (Appears over the entire screen)
Digital	Primary/Second./ Service 3/4/5/6	The Digital Closed caption menu lets you configure the way you choose to view the digital captioning.
Digital setting	Size	Text size
(Set display	Font	Text font
settings in digital program)	Style	Text style (Raised, Depressed, etc.)
in aignaí program)	Foreground	Color of text
	Fore. opacity	Opacity of text
	Background	Color of text box
	Back. opacity	Opacity of text box
	Outline	Outline color of text (Identify the setting options on the screen)

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

Settings	Items	Item Description				
3D settings	See p.25 for more	·				
Channel surf	All/Favorite/		lect the channel with the Channel up/down button.			
mode	Digital only/		nels registered as FAVORITE. (p. 20)			
	Analog only					
Language	English/Español/ Français	Selects the screen r	Selects the screen menu language.			
Clock		Adjusts the clock. (p. 17)				
ANT/Cable setup	See p. 46-47 for m					
Input labels (Display labels of connected	Devices connected input selection. (Input selection.	put select (p. 23))	minals can be labeled for easier identification during the			
devices)	Label: [BLANK] E	R/COMPUTER/MED	leo/PC ELLITE/DVD/DVD REC/DVR/GAME/HOME THTR/ DIA CTR/MEDIA EXT/VCR/CAMERA/MONITOR/AUX/			
	You can also enter	er the label name di	ectly. (Entering characters (p. 21))			
Anti Image retention	Pixel orbiter (Wobbling)	Enable/Disable	Enable: Shifts the display image automatically.			
(Prevent Image retention)	4:3 side bars (4:3 mode only)	Off/Dark/Mid/ Bright	Changes the brightness of the side bar The recommended setting is "Bright" to prevent the panel "Image retention". (p. 58)			
	Scrolling bar		he horizontal "Scrolling" on the screen. [Scrolling bar] ept the POWER key to return to previous			
		 You will return to t been performed for 	he previous screen if no key operation has r 15 minutes.			
Network settings	See p. 40-42 for m	been performed fo				
	See p. 34-35 for m	been performed fo ore detail.				
		been performed fo ore detail. To conserve energy OPERATION contin • Not in use when ", • "No signal for 10 r when the TV is tur signal for 10 minu	the TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining			
VIERA Link settings ECO/energy	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power	been performed for ore detail. To conserve energy OPERATION contin • Not in use when ", • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key conti • Not in use when ", "PC input" is select • "No activity for 3 h the TV is turned o for 3 hours".	Atter TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. the TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when n for the first time after the power was turned off by "No activity play will flash 3, 2 and 1 to indicate the last three (3) remaining			
VIERA Link settings ECO/energy saving	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power TV off) No activity for 3 hours (Stay on/ Power	been performed for ore detail. To conserve energy OPERATION contin • Not in use when ", • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key conti • Not in use when ", "PC input" is selec • "No activity for 3 h the TV is turned o for 3 hours". • The on-screen dis minutes prior to th	Atte TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. the TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when n for the first time after the power was turned off by "No activity play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. e. Operate USB keyboard (p. 21) rench/Canadian Multilingual Standard/Spanish (Latin			
VIERA Link settings ECO/energy saving Keyboard type	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power TV off) No activity for 3 hours (Stay on/ Power TV off)	been performed for ore detail. To conserve energy OPERATION contin • Not in use when "/ • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key contif • Not in use when "/ "PC input" is selec • "No activity for 3 h the TV is turned o for 3 hours". • The on-screen dis minutes prior to th Select keyboard typ (U.S./Canadian Fit America)/Spanish	At the TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No res". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. The TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when n for the first time after the power was turned off by "No activity play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. e. Operate USB keyboard (p. 21) rench/Canadian Multilingual Standard/Spanish (Latin (Spain)) atically when the cable box or connected device is turned On.			
VIERA Link settings ECO/energy saving Keyboard type	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power TV off) No activity for 3 hours (Stay on/ Power TV off)	been performed for ore detail. To conserve energy OPERATION contin • Not in use when ", • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key conti • Not in use when ", "PC input" is select • "No activity for 3 h the TV is turned o for 3 hours". • The on-screen dis minutes prior to th Select keyboard typ (U.S./Canadian Fr America)/Spanish Turns TV On autom	Atte TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. the TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when n for the first time after the power was turned off by "No activity play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. e. Operate USB keyboard (p. 21) rench/Canadian Multilingual Standard/Spanish (Latin a (Spain))			
VIERA Link settings ECO/energy saving Keyboard type Advanced setup	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power TV off) No activity for 3 hours (Stay on/ Power TV off) Auto power on (No/Yes) Image viewer	been performed for ore detail. To conserve energy OPERATION contin • Not in use when " • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key conti • Not in use when ", "PC input" is selec • "No activity for 3 h the TV is turned o for 3 hours". • The on-screen dis minutes prior to th Select keyboard typ (U.S./Canadian Fi America)/Spanish Turns TV On autom TV AC cord must be Slideshow/Photos, Videos/Music/ Set later/Off	At the TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. The TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when in for the first time after the power was turned off by "No activity play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. e. Operate USB keyboard (p. 21) ench/Canadian Multilingual Standard/Spanish (Latin of Spain)) atically when the cable box or connected device is turned On. plugged into this device. TV turns on every time the power is restored Sets the media contents or playback type to play back SD cards automatically. Set later: "Image viewer settings" menu will be displayed repeatedly			
VIERA Link settings ECO/energy	See p. 34-35 for m No signal for 10 minutes (Stay on/ Power TV off) No activity for 3 hours (Stay on/ Power TV off) Auto power on (No/Yes) Image viewer	been performed for ore detail. To conserve energy OPERATION contin • Not in use when "/ • "No signal for 10 minu • The on-screen dis minutes prior to th To conserve energy side panel key conti • Not in use when "/ • Not in use when "/ • PC input" is selec • "No activity for 3 h the TV is turned o for 3 hours". • The on-screen dis minutes prior to th Select keyboard typ (U.S./Canadian Fr America)/Spanish Turns TV On autom TV AC cord must be Slideshow/Photos. Videos/Music/ Set later/Off	A the TV automatically turns off when NO SIGNAL and NO ue for more than 10 minutes. Auto power on" is set to "Yes", or "On/Off Timer" is set. ninutes was activated" will be displayed for about 10 seconds ned on for the first time after the power was turned off by "No tes". play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. The TV automatically turns off when no operation of remote and nues for more than 3 hours. Auto power on" is set to "Yes", or "On/Off Timer" is set, or while ted. ours was activated" will be displayed for about 10 seconds when n for the first time after the power was turned off by "No activity" play will flash 3, 2 and 1 to indicate the last three (3) remaining e shut-off. e. Operate USB keyboard (p. 21) ench/Canadian Multilingual Standard/Spanish (Latin (Spain)) atically when the cable box or connected device is turned On. plugged into this device. TV turns on every time the power is restored Sets the media contents or playback type to play back SD cards automatically. Set later: "Image viewer settings" menu will be displayed repeatedly "Using Media player" (p. 26)			

Ratings List for parental control

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

■ U.S. MOVIE RATINGS (MPAA)

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

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	ViewableBlocked	Not Rated.
	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.)

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

Caution

• The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"

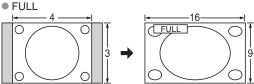
- Emergency Bulletins (Such as EAS messages, weather warnings and others)
- Locally originated programming News Political Public Service Announcements Religious Sports Weather

Technical Information

Aspect Ratio (FORMAT)

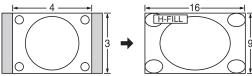
Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 20) (e.g.: in case of 4:3 image)





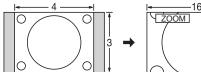
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)





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

ZOOM



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

Zoom adjustments

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

- ① Select "Zoom adjustments" on the "Picture" menu. (p. 50)
- 2 V-position: Vertical position adjustment





(OK)



③ V-size: Vertical size adjustment



To reset the aspect ratio ⇒ ([•] [•] [•])





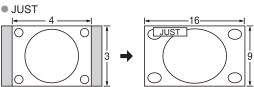


• The width will be decreased on both sides to reduce noise.

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

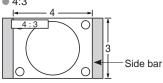


• The width will be increased on both sides to reduce noise.



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

(Recommended for normal TV broadcast) • 4:3



Standard

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

Note)

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

Data format information

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

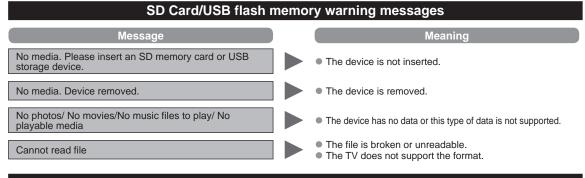
Note

- 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 (3D Image Viewer/Media player) cannot display 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 when handling SD Cards

- 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.)





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.

VIERA Link[™] "HDAVI Control[™]"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 33)

- 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, 2010) 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 HD devices.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a Cable or Satellite 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", "HDMI 3 in" or "HDMI 4 in" menu screen. (p. 51) 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. 58.

DIGITAL AUDIO OUT terminal

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.

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 only when the receiver (such as a Cable box or satellite receiver) has the CC set to ON within the device itself. Check with your Cable or Satellite provider for instructions. <u>The TV's CC button does not operate the Satellite or Cable box's CC function</u>.
- 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.

4:3 side bars

PC Input Terminals

Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field. To reduce the risk of such "Image retention", change the brightness of the side bars. Side Bar 4:3 Screen Display

See page 49 for more information

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

Signal Names for D-sub 15P Connector

	F
678910	

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

Pin Layout for PC Input Terminal

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			*
1,280 × 768 @60	47.78	59.87			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.39	60.04			*

Note

Signals other than above may not be displayed properly.

• The above signals are reformatted for optimal viewing on your display.

• 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.)

Care and Cleaning

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

Display panel

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

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

Cabinet

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

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

Pedestal

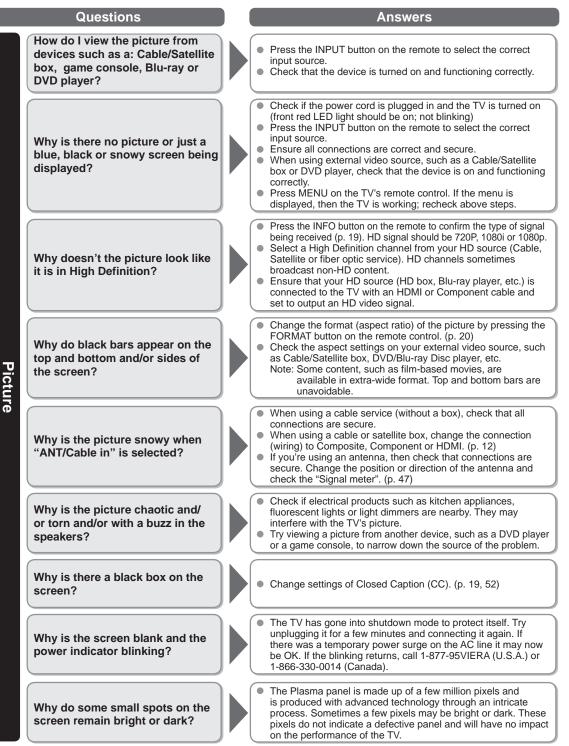
Cleaning

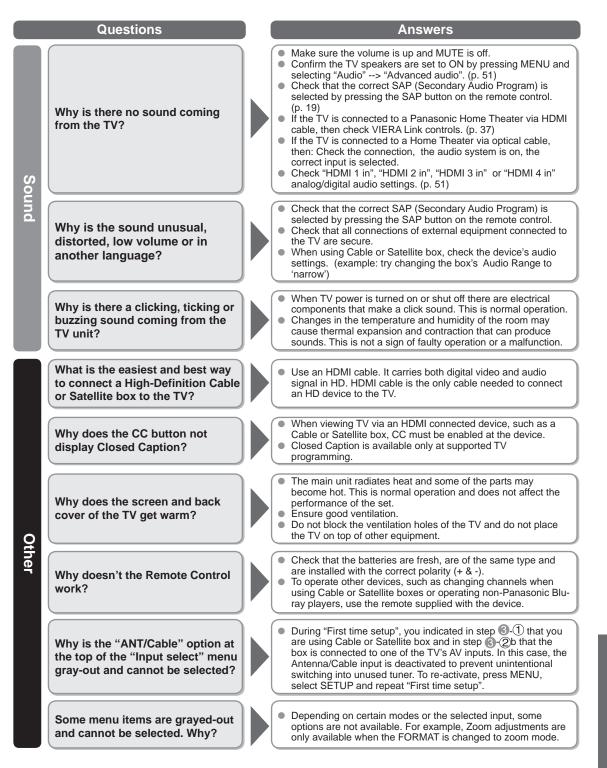
Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth.

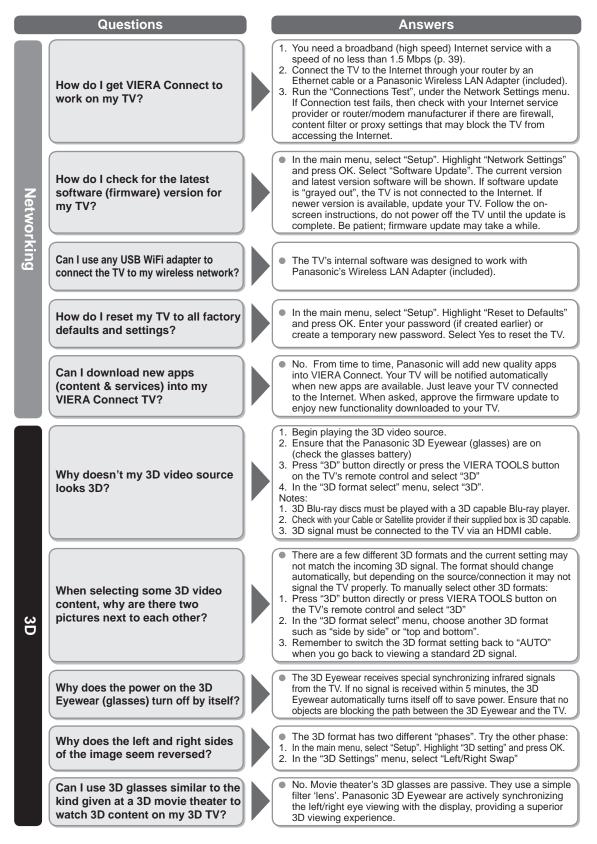
- Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

Frequently Asked Questions (FAQ)

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, visit the Panasonic website for further assistance. (see cover)







Specifications

		TC-P50GT30	TC-P55GT30	
Power Source		AC 120 V, 60 Hz		
ନ୍ଦୁ Rated Power Consumption		399 W	434 W	
Power Consumption	Standby condition	0.2 W	0.2 W	
	Drive method	AC type	·	
nel	Aspect Ratio	16:9		
la [Visible screen size	50 " class (49.9 inches measured diagonally)	55 " class (55.1 inches measured diagonally)	
Plasma Display panel	(W × H × Diagonal) (No. of pixels)	43.5 " x 24.4 " x 49.9 " 48.0 " x 27.0 " x 55.1 " (1,105 mm x 622 mm x 1,268 mm) (1,221 mm x 686 mm x 1,401 mm)		
		2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,08	80 dots]	
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)		
PC s	signals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
	nnel Capability ital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135		
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 Humidity: 20 % – 80 % RH (non-con		
	VIDEO IN	VIDEO:RCA PIN Type × 11.0 VAUDIO L-R:RCA PIN Type × 20.5 V	/ [p-p] (75 Ω) / [rms]	
Conn	COMPONENT IN	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
lectio	HDMI 1-4	TYPE A Connector × 4 This TV supports "HDAVI Control 5" function.		
ň	USB 1-3	USB 2.0 Type A connector x 3 (DC5V MAX500mA)		
Connection Terminals	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)		
als	LAN (for VIERA Connect)	RJ45 (10BASE-T/100BASE-TX)		
	Card slot	SD CARD slot × 1		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
FEA	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip VIERA Connect 3D IMAGE VIEWER Media player	HDAVI Control 5	
Dimer (W×I	Including pedestal	46.4 " x 29.7 " x 13.2 " (1,177 mm x 753 mm x 335 mm)	51.1 " x 32.6 " x 15.3 " (1,297 mm x 827 mm x 387 mm)	
Dimensions (W×H×D)	TV Set only	46.4 " x 28.3 " x 1.5 " (2.3 ") (1,177 mm x 718 mm x 37 mm (58 mm))	51.1 " x 31.2 " x 1.5 " (2.4 ") (1,297 mm x 790 mm x 37 mm (59 mm))	
N.	Including pedestal	65.1 lb. (29.5 kg)	82.7 lb. (37.5 kg)	
Mass	TV Set only	56.3 lb. (25.5 kg)	69.5 lb. (31.5 kg)	
			[TC-P55GT30]	
		46.4 " (1,177 mm) 46.4 " (1,177 mm) 47.4 " (1,177	2.4 " (59 mm) 1.5 " 51.1 " (1,297 mm) 51.1 " (1,297 mm) 51.1 " (1,297 mm)	
Nc	ote	18.2 " (460 mm) 13.2 " (335 mm)	22.1 " (560 mm) 15.3 " (387 mm)	

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

Support Information

	Wireless LAN Adapter
Power supply	DC 5V (USB powerd) 500mA
Antenna	Tx 1, Rx 2
Interface	USB 2.0
Standard Compliance	IEEE802.11n / IEEE802.11a / IEEE802.11g / IEEE802.11b
Transmission system	MISO-OFDM system, OFDM system, DSSS system
Frequency Range	IEEE802.11n / IEEE802.11a : 5.150GHz - 5.725 GHz for EU Countries 5.150GHz - 5.850 GHz for USA, Canada 5.250GHz - 5.850 GHz for Taiwan IEEE802.11g / IEEE802.11b / IEEE802.11n: 2.412 GHz - 2.472 GHz for EU countries 2.412 GHz - 2.462 GHz for USA, Canadan, Taiwan
Transfer rate (standard) *	IEEE802.11n: Tx Max. 150Mbps, Rx Max. 300Mbps IEEE802.11g / IEEE802.11a: Max. 54Mbps IEEE802.11b: Max. 11Mbps
Access Mode	Infrastructure mode
Security	WPA2-PSK (TKIP/AES) WPA-PSK (TKIP/AES) WEP (64bit/128bit)
Dimension (WxHxD)	1.18 " x 0.42 " x 3.73 " (30.00 mm x 10.72 mm x 94.85 mm)
Mass	0.88 oz (25 g) Net

* Transfer rates are theoretical values; however, actual communication rate will vary according to communication environment or connected equipment.

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

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

Panasonic Plasma Television Limited Warranty

Limited Warranty Coverage

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

PLASMA TV CATEGORIES	PARTS	LABOR	SERVICE
Up to 42" (diagonal)	1 (ONE) YEAR	1 (ONE) YEAR	Carry-In
46" (diagonal) and larger	I (ONE) FEAR	I (ONE) FEAR	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 TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

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

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

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

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

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

Customer Services Directory (United States and Puerto Rico)

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases (United States and Puerto Rico)

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

Our Customer Care Centre:

For product operation and information assistance, please contact:

1-800 #: 1-866-330-0014 Email link: "Contact us \rightarrow email" on <u>www.vieraconcierge.ca</u>

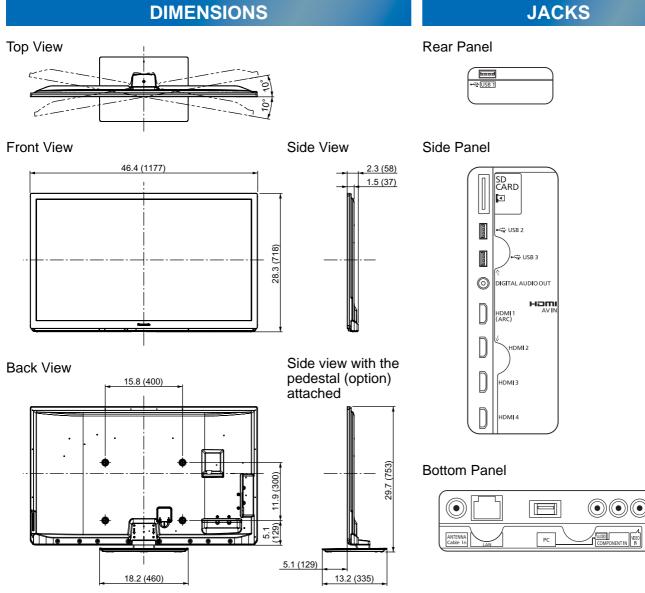
For product repairs, please contact Viera Customer Care Agent using the above contact info.

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.

SPECIFICATIONS

Dimensions (W x H x D)	46.4" (1,177 mm) x 29.7" (753 mm) x 13.2" (335 mm)
	(Including pedestal)
	46.4" (1,177 mm) x 28.3" (718 mm) x 1.5" (2.3") (37 mm (58 mm))
	(TV Set only)
Mass	65.1 lb. (29.5 kg) (Including pedestal)
	56.3 lb. (25.5 kg) (TV Set only)
Power Source	AC 120 V, 60 Hz
Rated Power Consumption	399 W
Standby condition	0.2 W



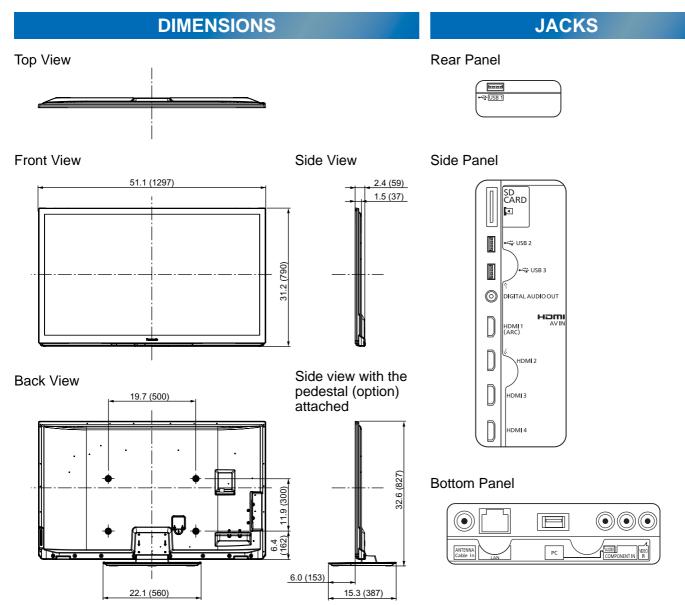
Note:

To make sure that the Plasma Television fits the cabinet properly when a high degree of precision is required, we recommend that you use the Plasma Television itself to make the necessary cabinet measurements. Panasonic cannot be responsible for inaccuracies in cabinet design or manufacture.

Specifications are subject to change without notice. Non-metric weights and measurements are approximate.

SPECIFICATIONS

Dimensions (W x H x D)	51.1" (1,297 mm) x 32.6" (827 mm) x 15.3" (387 mm)
	(Including pedestal)
	51.1" (1,297 mm) x 31.2" (790 mm) x 1.5" (2.4") (37 mm (59 mm))
	(TV Set only)
Mass	82.7 lb. (37.5 kg) (Including pedestal)
	69.5 lb. (31.5 kg) (TV Set only)
Power Source	AC 120 V, 60 Hz
Rated Power Consumption	434 W
Standby condition	0.2 W



Note:

To make sure that the Plasma Television fits the cabinet properly when a high degree of precision is required, we recommend that you use the Plasma Television itself to make the necessary cabinet measurements. Panasonic cannot be responsible for inaccuracies in cabinet design or manufacture.

Specifications are subject to change without notice. Non-metric weights and measurements are approximate.

Support Information

Limited Warranty (for Canada)

USA Only: Disposal may be regulated in your community due to Environmental considerations. For disposal or recycling information, please visit Panasonic website: http://www.panasonic.com/environmental or call 1-888-769-0149.

Customer's Record

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

Model Number

Serial Number

Anotación del cliente

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 guardar 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 servicios que le ofrece la garantía.

Modelo

Número de serie

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A.

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> Printed in U.S.A. Impreso en EE.UU. M0111-0