

Model No. Número de modelo

TC-L32DT30 TC-L37DT30

Owner's Manual

32"/37" Class 1080p LCD HDTV (31.5/37.0 inches measured diagonally)

Manual de usuario

Televisión de alta definición de 1080p y clase 32"/37" de LCD (31,5/37,0 pulgadas medidas diagonalmente)



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), llame 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.

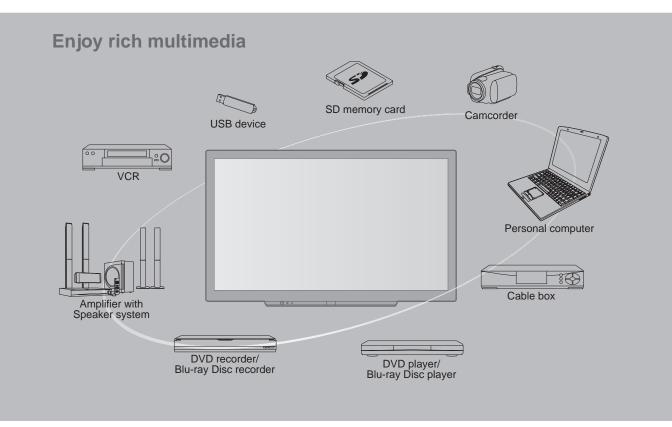
Español

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.



TOR2440619-1

Experience an amazing level of multimedia excitement



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



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



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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.

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See page 66 for more information.

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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



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

Note to CATV System Installer

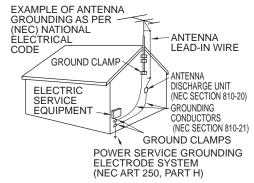
This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Secure Ventilation

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the LCD TV and to protect it from overheating. These openings must not be blocked or covered. There should be at least 10 cm of space around the TV. The openings should never be blocked by placing the LCD TV on a bed, sofa, rug or other similar surface. This LCD TV should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Important Safety Instructions (TV set)

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company.
- 16) Follow all warnings and instructions marked on the LCD TV.
- 17) Never push objects of any kind into this LCD TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the LCD TV.
- 18) If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 19) An outside antenna system should not be located in the vicinity of overhead power lines, other electric light, power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 20) Unplug this LCD TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the LCD TV.
 - If the LCD TV has been exposed to rain or water.
 - d. If the LCD TV does not operate normally by following the operating instructions.
 Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD TV to normal operation.
 - e. If the LCD TV has been dropped or the cabinet has been damaged.
 - When the LCD TV exhibits a distinct change in performance this indicates a need for service.
- 21) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22) WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING.

 DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET
- (INCLUDING ON SHELVES ABOVE, ETC.).
 23) 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.
- 24) WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times
 25) CAUTION: The Power switch on this unit will not completely shut off all power from AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power.
 Therefore make sure the unit has been installed to the the power cord can be easily uponed power.

Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

- 26) **CAUTION:** TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- 27) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 28) CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 29) CAUTION: This LCD TV is for use only with the following optional accessory. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

 (All of the following accessories are manufactured by Panasonic Corporation)
 - Wall-hanging bracket: TY-WK3L2RW Always be sure to ask a qualified technician to carry out set-up.

NOTE: This equipment is designed to operate in North America and other countries where the broadcasting system and AC house current are exactly the same as in North America.

DANGER/WARNING/CAUTION (3D Eyewear)



■ About Prohibition of Heating

 Do not put 3D Eyewear in fire, heat it or leave it in places that can get hot.

3D Eyewear contains a lithium-ion polymer rechargeable battery, so heating may result in combustion or rupture that may cause burns or fire.



■ About Prevention of Accidental Ingestion

 Do not store any 3D Eyewear parts 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.
 When disposing this product, refer "Disposal" (p. 60) and disassemble properly for removing the rechargeable battery.

■ About Charging

- Charge by connecting the included charging cable to the USB terminal of a Panasonic TV supporting 3D.
 Charging with other devices may result in battery leakage, heating or rupture.
- Do not use the included charging cable for uses other than charging 3D Eyewear.
 Doing so may result in heating, combustion or damage.

∴ CAUTION

■ 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.
- Always keep the 3D Eyewear in a cool, dry place.
 Failure to do so may cause fire or electric shock.
- 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.

FCC STATEMENT

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

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

FCC Caution:

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

FCC 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-L32DT30, TC-L37DT30

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.

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:

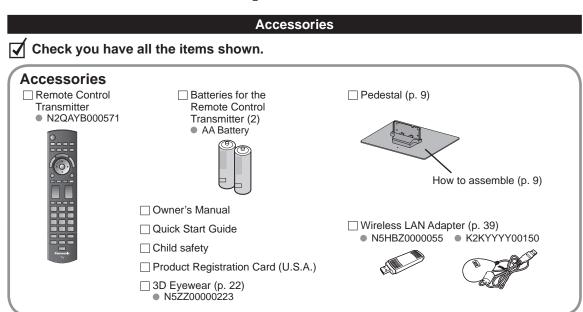
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- · If you have any doubts about your ability to safely install your flat panel display, 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
- 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 5.

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



Accessories/Optional Accessories



Optional Accessories

3D Eyewear

(Rechargeable type) TY-EW3D2STY-EW3D2M

TY-FW3D2I

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

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

(USA) http://www.panasonic.com (Canada) http://panasonic.ca (Global reference) http://panasonic.net/avc/viera/3d/

Communication Camera

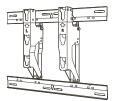
TY-CC10W



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

Wall-hanging bracket

TY-WK3L2RW



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

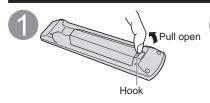
a: 7.9 " (200 mm) b: 7.9 " (200 mm)

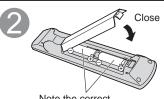
Screw for fixing the TV onto the Back of the TV wall-hanging bracket (not supplied with the TV) Depth of screw: b Minimum: 0.16 " (4.0 mm) Maximum: 0.43 " (11.0 mm) **M6** Holes for wall-hanging bracket (View from the side) installation

WARNING

- Customer assumes liability if mounting the unit themselves or if a Panasonic bracket is not used. Any damage resulting from not having a professional installer mount your unit will void your warranty.
- Always be sure to ask a qualified technician to perform any necessary set-up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging the bracket.
- When using an angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables so that they do not press against the wall when the TV is tilted forward.
- For safety reasons, remove units no longer being used from their wall-mounted locations.

Installing the remote's batteries





Note the correct polarity (+ or -).

Caution

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

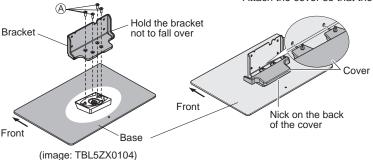
Attaching the pedestal to TV

■Assembling the pedestal

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

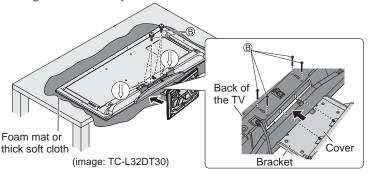
- Attach the cover
- Place the cover so that it covers up the screws for the bracket.
- Insert the protrusion of the cover into the opening of the bracket.
 - * The cover has a nick on the back.

Attach the cover so that the nick fits underneath the bracket.



■Set-up

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



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.

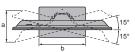
If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong
enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Location

Place the TV at a comfortable distance for viewing. Avoid placing it where sunlight or other bright light (including reflections) will fall on the screen. Use of some types of fluorescent lighting can reduce remote control transmitter range. Adequate ventilation is essential to prevent an internal component failure. Keep away from areas of excessive heat or moisture.

Adjust the LCD panel to your desired angle.



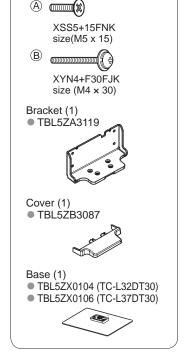


(View from above)

- TC-L32DT30
- a: 9.6 " (242 mm) b: 13.8 " (350 mm)
- TC-L37DT30
 a: 10.8 " (273 mm)
 b: 14.8 " (375 mm)

Note

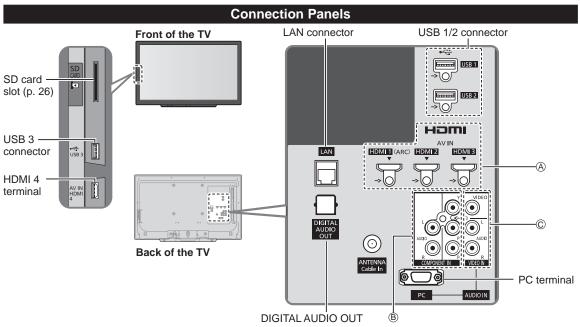
- Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
- Do not place any objects or hands within the full rotation range.

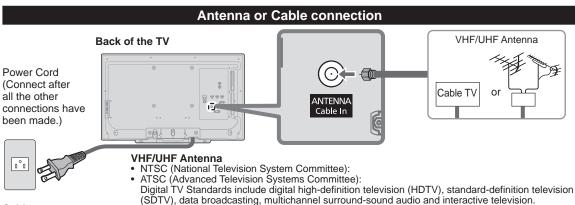


Accessories

Assembly screws (4 of each)

Connections



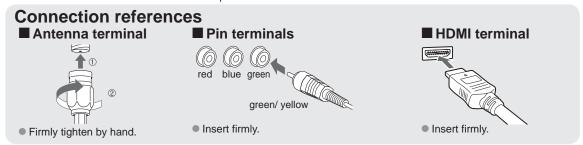


Cable

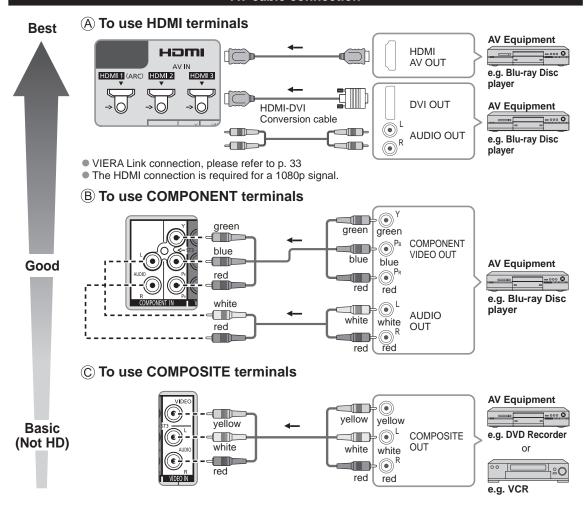
- You need to subscribe to a cable TV service to enjoy viewing their programming.
- You may need to subscribe to a high-definition (HD) cable service to enjoy HD programming.
 The connection for high-definition can be done with the use of an HDMI or Component Video cable. (p. 11)

Note

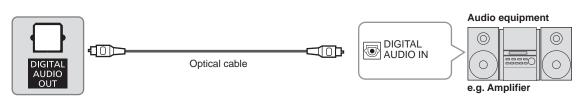
- When using a Cable box, external equipment and video cables shown in this manual are not supplied with the TV.
- For additional assistance, visit us at: www.panasonic.com/help www.panasonic.ca



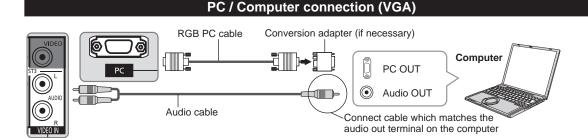
AV cable connection





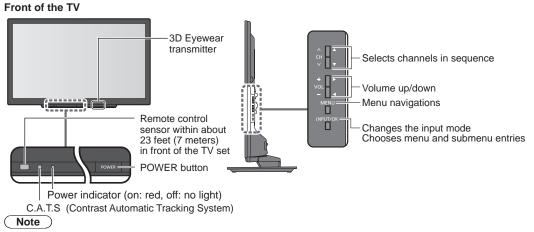


• For HDMI-ARC (Audio Return Channel) connection, see p. 32

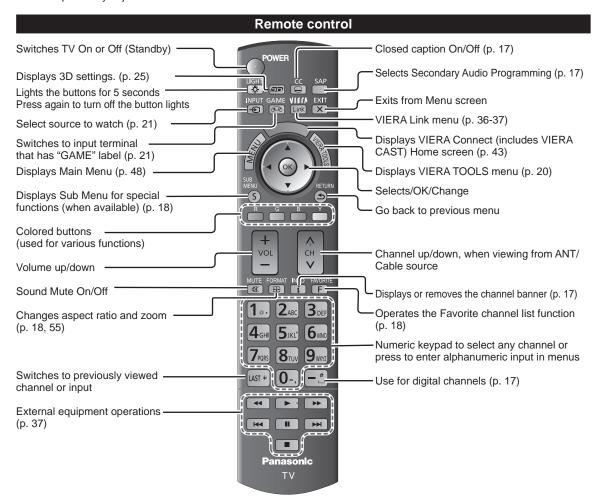


Identifying Controls

TV controls/indicators

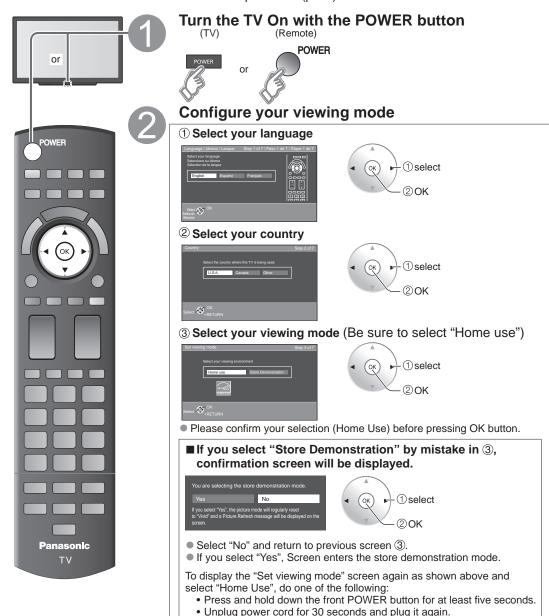


- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.



First Time Setup

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)

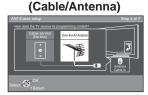


ANT/Cable setup

1 Do you use a Cable, Satellite or Fiber Optic box with this TV?



2a Select signal type



2b Select connection type for Cable or Satellite box and go to 4 (Input labels)



③ Select scan type

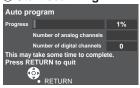




Yes

20K

4 Start scanning



⑤ Complete scanning





Label the inputs for easy identification (Label inputs)

To name each input, follow the instructions on screen.

When done, select NEXT and press OK to go to the next step.







Follow the instructions on screen to complete the following operations.

--> To edit the labels to match your connected devices. Label: [BLANK] Blu-ray/CABLE/SATELLITE/DVD/DVD REC/DVR/GAME/HOME

THTR/RECEIVER/COMPUTER/MEDIA CTR/MEDIA EXT/VCR/CAMERA/ MONITOR/AUX/OTHER/Not used

- Select "Not used" for any back-panel input that has no device connected to it. Afterward, the input will be skipped when pressing INPUT, for your convenience.
- The input labels can be changed at any time from the TV's setup menu





RETURN

 About broadcasting systems

■ Press to go back to the previous screen

Analog (NTSC):

Conventional broadcasting

Digital (ATSC):

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





1 Select the Network type



Set later: Go to (1)

You can set in "Setup" menu later. Wireless (WiFi): Start "Wireless network" (p. 16)

2 Select the setting mode



Automatic: Press OK to start setup automatically.

Error screen is displayed when Network connection has failed.

Manual: Go to Manual setting.





Start connection test



③ Complete "Network settings"

Helpful information is displayed when you

successfully complete "Network settings".



error

■ Manual setting







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

■ Press to exit from a menu screen **EXIT**

■ Press to go back to

the previous screen

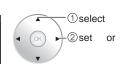
X

RETURN (3)

Adjust the Clock (Set clock)
When done, select NEXT and press OK to go to the next step.

■ Manual setting







Follow the instructions on screen to complete the following operations.

■ Auto setting



Mode

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

Time zone

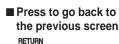
Select your time zone. (EST/CST/MST/PST/AKST/HST/NST/AST)

DST

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



■ Press to exit from a menu screen





Complete 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.

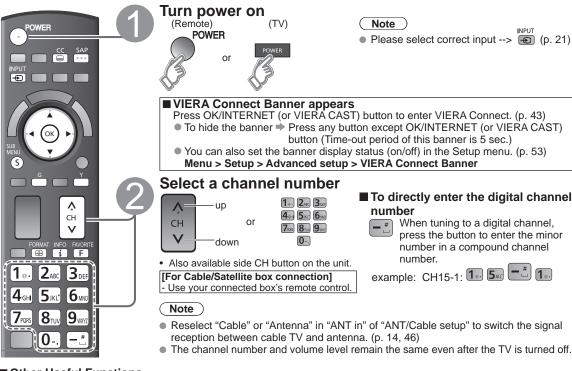
■ About wireless LAN

- 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
 Display "Wireless network"
 Select the connection method

 Wireless network
 Please choose connection method:
 Search for wireless networks
 WPS (Wi-Fi Protected Setup using push button)

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

Watching TV



■ Other Useful Functions

Listen with SAP (Secondary Audio Programming)

■ Select the Audio mode for watching TV



Digital mode

Press SAP to select next Audio track (if available) when receiving a digital channel.

Audio track 1 of 2 (English)

Analog mode

Press SAP to select the desired Audio mode.

- Each press of SAP will change the Audio mode. (Stereo/SAP/Mono)
- SAP is not available when watching TV with a Cable or Satellite box connected via HDMI.
- Contact your Cable or Satellite operator for instructions on enabling SAP with their box.

Closed Caption

■ Switches the Closed Caption mode On or Off

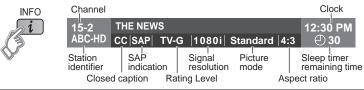




- Closed Caption is not available when watching TV with a Cable or Satellite box connected via HDMI.
- Contact your Cable or Satellite operator for instructions on enabling CC with their box.

Displaying Information

■ Displays and removes information. When watching programming via the Antenna/Cable input, shows the channel banner.



Change aspect ratio and Zoom the picture

■ Press FORMAT to cycle through the aspect modes (p. 55)





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

Use when the picture does not fill the whole screen (bars appears on either side of the image) or portions of the picture is trimmed.

Note

- Some content, such as film-based movies, are available in extra-wide format.
 Top and bottom bars are unavailable.
- Connected devices, such as Cable/Satellite box, DVD/Blu-ray players and game consoles have their own aspect (format) settings. Adjust the device's aspect settings.

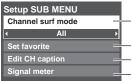
Display the SUB MENU

■ Press SUB MENU to show the Sub Menu screen

This menu consists of shortcuts to convenient functions.

Sub menu is only available when the TV is using the Antenna/Cable input, not when using Cable or Satellite box.





-Specify favorites or type of channels to view when pressing the channel up/down button.

-Set favorite channel (below)

Edit the channel identifier (p. 47)

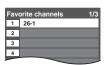
-Check the signal strength (p. 47)

Call up a favorite channel

■ FAVORITE

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use the number buttons. (p. 17)





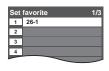




■ Set the Favorite channel









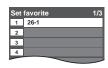
0-.

(ok)

①select the list number
②save the displayed channel

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

■ Delete a favorite channel





■ To change the page

FAVORITE

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



Changes the page forward/backward

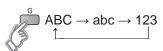
• Favorite channels cannot be set when using Cable or Satellite box.

■ Other Useful operations

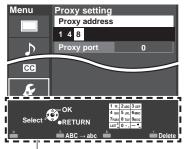
Entering characters

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

■ Switches input mode



■ Press each number key to cycle through the alphanumeric character



Navigation area

- You can also use a USB keyboard (not supplied) to enter the alphanumeric characters.
- Keyboard type (p. 53)

Password setting/entering

You need to enter the password when you access locked channel or inputs.

Input your 4-digit password





- If it is your first time entering the password, enter the password twice in order to register it.
- Make a note of your password. Do not forget it. (If you have forgotten 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.

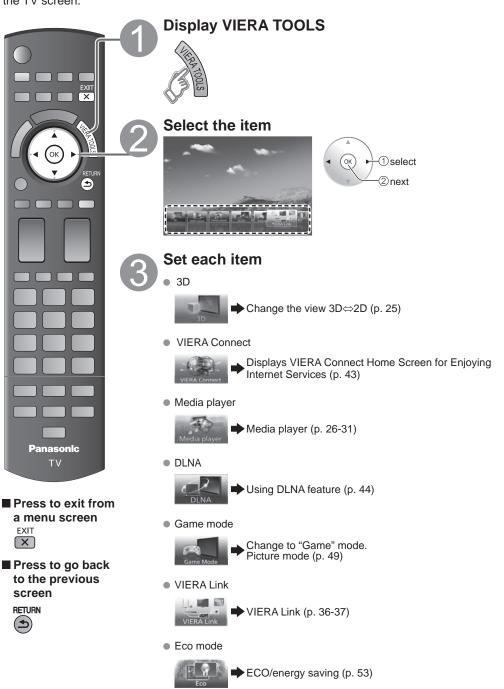
■ Kev chart

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

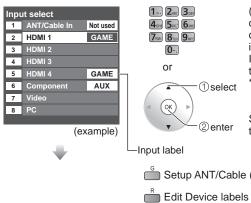


With the connected equipment turned On

Display the Input select menu



Select the input mode



(shortcut) Press the corresponding NUMBER button on the remote control to select the input of your choice. Or, press the INPUT button repeatedly, to cycle through the available inputs. * set unused input to "Not used" (below) for quick skipping.

Select the input of your choice, then press OK.

Setup ANT/Cable (p. 46)

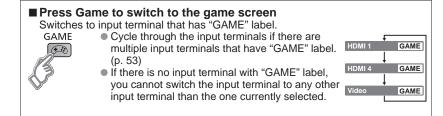
Input labels (p. 53)



- During the selection, if no action is taken for several seconds. the "Input select" menu disappears.
- The terminal and label (names) of the connected equipment are displayed.

Note

- The input label will be displayed on the "Input select" screen if the Input label was customized.
- For side input terminals (HDMI 4), "GAME" Input label is set as default.



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)

Viewing 3D images on TV

You can enjoy 3D images by wearing the 3D Eyewear supplied with this TV and to view 3D broadcasts and 3D image software.

Optional Accessories (p.8)

Basic features of 3D Eyewear

This product cannot be used as sunglasses.

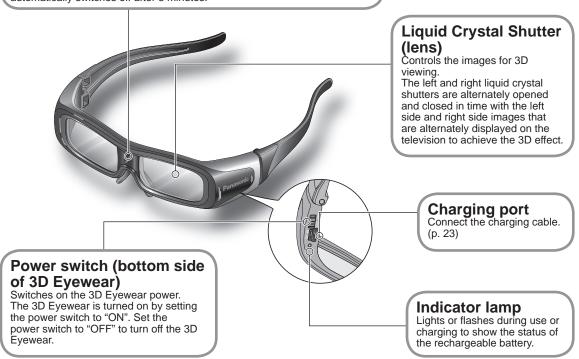
This product can be worn over vision correction glasses.

■ Part names and functions

Infra-red receiver

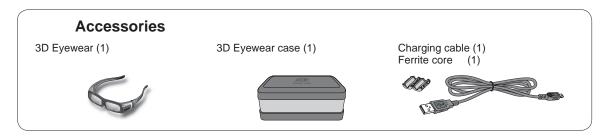
Receives infra-red signals from the television.

The liquid crystal shutter open/close timing is controlled by receiving infrared signals from the television, which provide 3D expression of the images. If the eyewear stops receiving infra-red signal from the television, the power automatically switches off after 5 minutes.



■ Battery status shown by indicator lamp

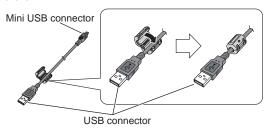
Power/indicator lamp status	Battery status
Lights for 2 seconds when turned on	Sufficient battery level
Flashes 5 times when turned on	Low battery level
Flashes once every 2 seconds when in use	Operating normally
Lights continuously when off	Charging
Lamp off	Power off



Attaching Ferrite Core

Be sure to attach the provided ferrite core to the charging cable to reduce interference or electrical noise.

- 1. Attach the ferrite core as close to USB connector of the charging cable as shown.
- 2. Close the ferrite core until it clicks.



Charging the 3D Eyewear

- 1. Turn off the television power, and set the 3D Eyewear power switch to "OFF".
- 2. Connect as shown in the diagram, and turn on the television power.
 - The indicator lamp lights red, and charging starts.
 - When the indicator lamp turns off, charging is complete. (Approximately 2 hours required)
- 3. Turn off the television power, and remove the charging cable.



Note

Be sure to turn the television power on when charging. The battery will not be charged when the television power is
off.

Using Precautions

■ Liquid Crystal Shutter

- Do not apply pressure to the liquid crystal shutter. Also, do not drop or bend the 3D Eyewear.
- Do not scratch the surface of the liquid crystal shutter with a pointed instrument etc.
 Doing so may cause damage to the 3D Eyewear, and reduce the guality of the 3D image.

■ 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.
- Do not use devices that emit strong electromagnetic waves (such as cellular phones or personal transceivers) near the 3D Eyewear. Doing so may cause the 3D Eyewear to malfunction.
- The 3D Eyewear cannot operate fully at high or low temperatures.
 Please use within the specified usage temperature range (p. 65).
- If the 3D Eyewear is used in a room in which fluorescent lights (50 Hz) are used, the light within the room may appear
 to be flickering. In this case, either darken or switch off the fluorescent lights when using the 3D Eyewear.
- Wear the 3D Eyewear correctly. 3D images will not be correctly visible if the 3D Eyewear is worn upside down or back-to-front.
- Other kinds of displays (such as computer screens, digital clocks, or calculators etc.) may be difficult to see while
 wearing the 3D Eyewear. (The polarizing axis does not match, causing the displays to appear black.)
 Do not wear the 3D Eyewear when watching anything other than 3D images.
- 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 32-inch television, 3'9" (1.2 m) or more.

For a 37-inch television, 4'6" (1.4 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

- When watching 3D movies, take an appropriate length break after watching a movie.
- When watching 3D content on interactive devices such as 3D games or computers, take an appropriate length break after using for 30 - 60 minutes. Prolonged use may cause eyesight fatigue.

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



Wearing the 3D Eyewear

- 1 Set the power switch to "ON".
 - (The indicator lamp will light for approximately 2 seconds, then flash once approximately every 2 seconds.)
- 2 Put on the 3D Eyewear



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)

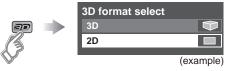


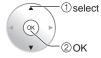
After Use

- 1) Set the 3D Eyewear power switch to "OFF".
 - (The 3D Eyewear indicator lamp turns off, and the power turns off.)
- ② After using the 3D Eyewear, store it in the case provided.

Change the view 3D⇔2D

■ Simply switches 3D ⇔ 2D images (Auto mode)





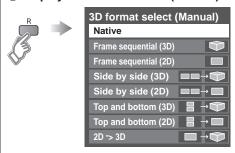
VIERA TOOLS -->p. 20
 "3D" icon also available.

● 🗎 → Switches to Manual mode (see below)

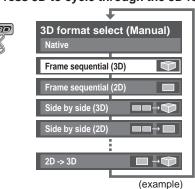
■ Change 3D format (Manual mode)

During above operation press red button and switch to manual mode.

1) Display "3D format select (Manual)

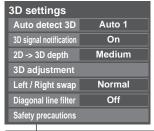


② Press 3D to cycle through the 3D format



3D settings (Adjust 3D images)

- 1) Select "3D settings" in "Setup"
 - How to Use Menu Functions (p. 48)
 - Using "Setup" menu (p. 53)
- 2 Select the item and set



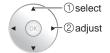


■3D adjustment

Changes 3D depth by adjusting left-right parallax.

1 Set "On" and adjusts "Effect"





3D adjustment (On/Off) Effect (-3 to +3)

Settings	Item Description	
Auto detect 3D	Auto 1: Switches to 3D display when 3D indication is available (HDMI (3D), AVCHD file,etc) Auto 2: Same as Auto 1. plus detects 3D signal by identifying similar image in side by side or top- and-bottom 3D formats. Note: choose 3D mode manually, when auto detection is not available. (Off/Auto 1/Auto 2)	
3D signal notification On: Displays a message according to the signal received by the "Auto detect 3D". (On/Off)		
2D->3D depth Adjusts 3D depth. Available only when "2D->3D" is selected in "3D format select". (Minimum/Medium/Maximum)		
3D adjustment See above. (3D adjustment (On/Off), Effect (-3 to +3))		
Left / Right swap	Change this to On when the phases are reversed. (when there is an unusual sense of depth). (Normal/Swapped)	
Diagonal line filter On: Resolves discomfort caused by receiving a quincunx matrix signal. (On/Off)		
Safety precautions	Displays message for viewing 3D images.	

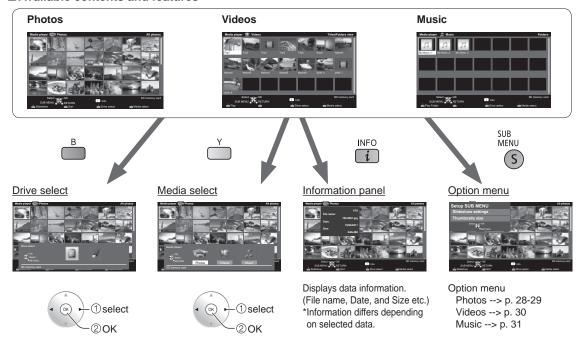
- * The perceived three dimensional effects of the 3D Eyewear differ from person-to-person.
- * If a signal received from an external device is different from the 3D setting of the TV, such as 2D signal when the TV is set to 3D mode, the images may not be displayed correctly.

Using Media player

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

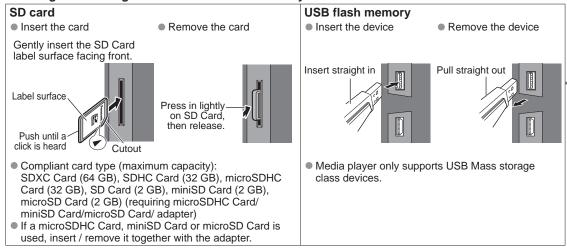
Basic features for Media player

■ Available contents and features



Media information

■ Inserting or removing an SD card/USB flash memory



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

Basic

Viewing Contents



Insert Media (SD card or USB flash memory) • Auto play setting → Image viewer auto play (p. 53)



Display Media player







EXIT

 \odot

FORMAT INFO

Select Drive









Select the Media







Select the data (Photos/Videos/Music) How to view the data differs depending on data storage conditions.

1 Select Title/Folder





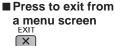


② Select file





(e.g. Photos)



Panasonic ΤV

■ Press to go back to the previous screen RETURN

 \bigcirc





View or Play

(e.g. Photos)



Thumbnail / Playback view image and operation are different depending on selected contents.

- Photos view --> p. 28-29
- Videos view --> p. 30
- Music view --> p. 31



Photos view

[Photos thumbnail]



[Features]

- Slideshow setting Sort
- Media select
- * In DMR mode, Slideshow is not available
- DMR: Digital Media Renderer ⇒ p. 38



Photo status

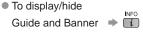


Drive select









2D/3D status

* In DMR mode, Rotate/OK/Next/ Prev. are not available.

Slideshow

1 Display "Slideshow settings"





(example)

2 Adjust items and select "Slideshow start"





■ To stop in mid-cycle Press ⇒

1) select



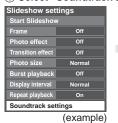
■ Slideshow settings

Settings	Item Description	
Frame*	Select the Frame (Off/Array/Collage/Drift(with calendar)/Drift/Gallery(with calendar)/Gallery/Cinema)	
Photo effect*	Select the display effect (Off/Sepia/Gray scale)	
Transition effect	Select the Transition effect shown between photos (Off /Fade in/Wipe ↓/Wipe ↑/Wipe →/Wipe ←/ Slide in ↓/Slide in ↑/Slide in →/Slide in ←/Zoom in/Comb ↑↓/Comb →←/Dissolve/Checker wipe/Motion/Random)	
Photo size*	Removes the black borders that are added according to the size of the photo being displayed. (Normal/Zoom)	
Burst playback*	Continuously plays photos that were shot. (On/Off)	
Display interval	Set "Display interval" each image is displayed in the Slideshow mode. (Short/Fast/Normal/Slow/Very slow)	
Repeat playback	Turn the Slideshow Repeat (cycle) function on or off (Off/On).	
Soundtrack settings	Select the music (Off/Music 1/Music 2/Music 3/Music 4/Music 5/User selected*/Auto*) User selected: Plays the soundtrack registered in the "Soundtrack settings". (below) Auto: Plays the songs on the SD card or USB flash memory.	

- Picture quality may become lower depending on the slideshow settings.
- Picture setting may not work depending on the slideshow settings.
- * When using DLNA (DMP mode) feature these menus are not displayed. DMP: Digital media player p. 38

■ Soundtrack settings

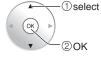
1 Select "Soundtrack settings" 2 Select "User select"





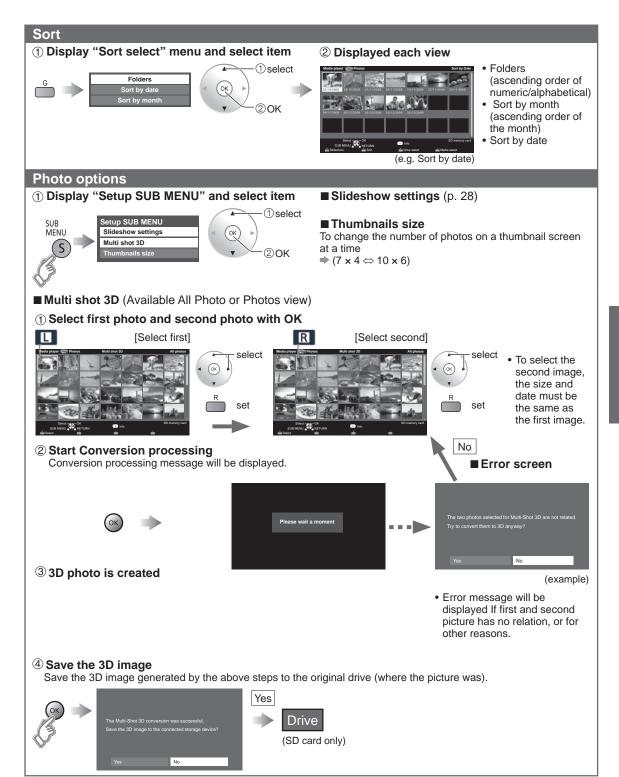
3 Select the song and register





This song: Register current music.

All songs in folder: Register the music in a folder.









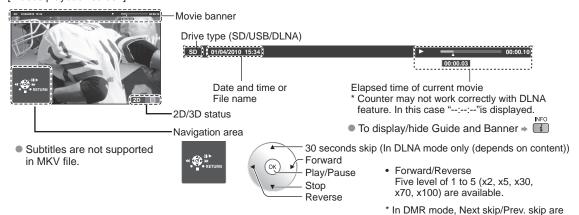
[Features]

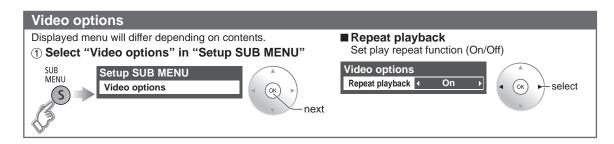
PlayDrive select

Aspect change

- Media select → Y
- * In DMR mode, Resume playback is not available

[Videos playback screen]





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)

not available.

^{*} For Media player only

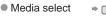
^{**} For DLNA only.

Music view

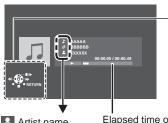


[Features]

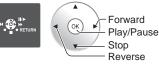
- Play folder
- Drive select



[Music playback screen]







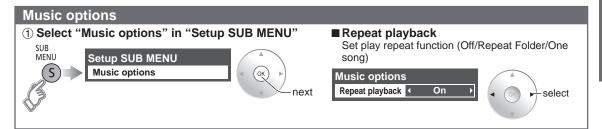
- Forward/Reverse Five level of 1 to 5 (x2, x5, x30, x70, x100) are available.
- * In DMR mode, Next skip/Prev. skip/ User BGM setting are not available.

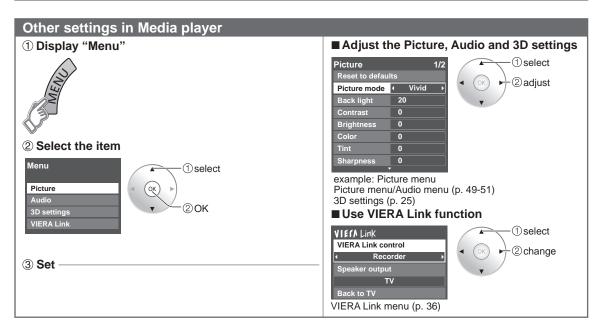
Artist name

Album name

Song name

- Elapsed time of current song
 * Counter may not work correctly with
- DLNA feature.
- In this case "--:--"is displayed.
- To display/hide Guide and Banner → i





VIERA LinkTM "HDAVI ControlTM"*

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote. Enjoy additional HDMI Inter-Operability with 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 or HDMI 4 (p. 21), 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.

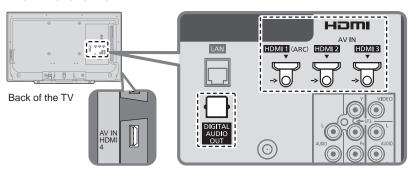
■ HDMI cable

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)

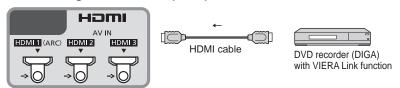
* For more details on the external equipment's connections, please refer to the operating manual for the equipment.

VIERA Link™ Connections (with VIERA Link function)

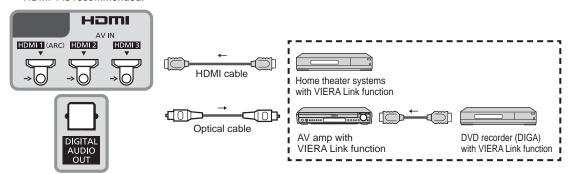
■ Terminal overview



■ Connecting DVD Recorder (DIGA)



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

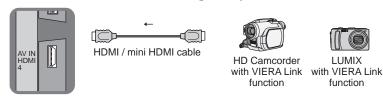


No optical cable is necessary when connecting a Home Theater supporting "HDAVI control 5" with an HDMI cable. Audio will be supported via ARC (Audio Return Channel) (p. 32)

• 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)

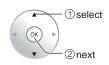


Display the menu



Select "VIERA Link settings" in "Setup"





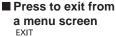
Select "VIERA Link"







Select "On" (default is On)



TV



■ Press to go back to the previous screen





Select and make other settings





change

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.

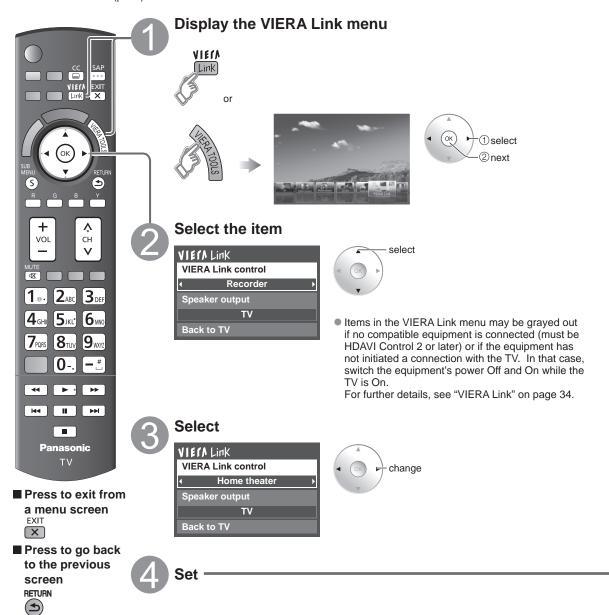
Transmittable data	Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)	0	0	0
② Panel Aspect Ratio (16:9 fixed)	0	0	0
③ Closed caption information (Mode/CC type/Digital setting)	0		

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)

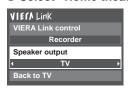


Speaker control

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

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

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





■ Home theater: Adjustment for the equipment



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

VIERA Link control only with the TV's remote control

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

- 1 Select "VIERA Link control"
- ② Select the equipment you want to access (Recorder/Home theater/Player/Camcorder/LUMIX/ Digital camera/Network camera)
- Using VIERA TOOLS (p. 20)





You can select available items only.

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

Note

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

■ Available TV remote control buttons

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

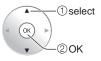
	and the arange of an ere aspending on the		
(i)	Move the cursor/Select	•	Play
⊚ ≤	Set/Access		Stop
RETURN	Return to previous menu	*	Reverse/Forward
SUB MENU S	Display the functions menu on the equipment	H4 PH	Skip Reverse/Forward
R G B Y	Available when the purpose of the keys is displayed on screen	п	Pause
EXIT	Exit	CC	Closed caption
A OH V	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 9	0-9		Select digital subchannel

Back to TV

Returns the input selection of the device selected with the VIERA Link Control to the TV input.

Select "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 in 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 for 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 be aware of the settings and connections under network circumstances at the office, at a 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 the DMC, which will find content from DMS.

DMC (Digital Media Controller)

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

■ DLNA remote control

This TV supports the DLNA control function.

To use this function, set the "Network link" (p. 42)

■Using Network camera > p. 45

Network Connections



Contact your Broadband service provider

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

- Required speed (effective): at least 1.5 Mbps for SD and 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.

3

Connecting to the Internet

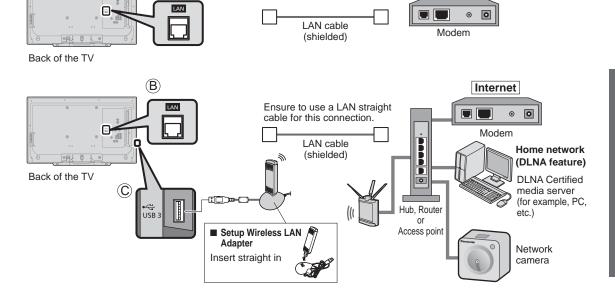
- (A) Wired connection (Directly connected)

 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.
- 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

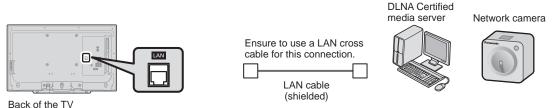
Internet

© 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

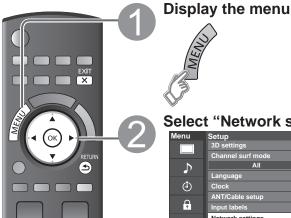


• To use only DLNA features or Network camera, you can operate the features without Broadband network environment.



Network settings

This is a setting for connecting to a broadband environment.



Select "Network settings"





■ Press to exit from a menu screen



■ Press to go back to the previous screen RETURN









Connection test

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

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



3 Complete Connection test

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

Network connection

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

Wireless network (Confirm Current settings and status)

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

■ Displayed "Current settings and status" screen (If connected with Wireless LAN Adapter) You can confirm the AP connection status.

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

1 Press "Wireless network"

(example)





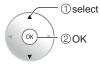
② When you change "Wireless network" -->Press "No" See "Sets / Changes wireless network setting" on p. 41 and follow the directions on screen to complete the settina.

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

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





- * 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

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

Set the PIN code that is displayed on the TV on the Access point.

Manual settings:

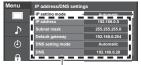
Manually set SSID, Security type, and Encryption type to match the settings of the Access point to which to connect.

 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

■ Proxv address

by the provider.

■ Proxy port

Proxy address.

- 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

This is the address of the relay server that is connected

This number is specified by the provider together with the

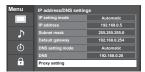
to the target server instead of the browser and sends data to the browser. Setting is only required if specified

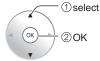


Proxy setting

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

Select "Proxy setting"





② Select item and press OK





- ③ Enter address or port number and press OK
- Entering characters (p. 19)

Network link

■ Edit the name of this TV

Sets your favorite name for this TV. This name will be used to display the name of this TV on the screen of the other Network compatible equipment.

1 Select "VIERA network name"





② Edit the name and press OK Entering characters (p. 19) ■ Switches DLNA remote control (Disable/Enable) Switches DLNA remote control "Disable" or "Enable"



- Volume setting in DMR operation (Disable/Enable)
 Sets volume setting in DMR operation
 - Available only when "Enable" is selected in "DLNA remote control"



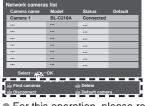
■ Switches Network remote control (Disable/Enable) Switches remote control of network device such as a smartphone to "Disable" or "Enable".



Network cameras list

Before using a Network camera, you need to register the camera as shown below. You can also set Default camera or Disconnect/Delete the registered cameras.

- Press "Network cameras list" and display screen
- 2 Set Network camera setting





 For this operation, please refer to the operating manual for the Network camera.

- Start camera search.
 - Before you start to search for a camera, switch the camera to registration mode.
 - Search condition also depends on "Network settings"
- Delete camera information.
 - Disconnect to camera. "Disconnected" will be displayed in "Status".
 - Set to default use. Displayed "(Default)" next to camera name.
- (Available only when reconnecting)
 ⇒ Connect to Camera. "Connect" will be displayed in "Status".

Software update

1 Select "Software update"





- 2 Press OK to start the Software update screen
- 3 Follow directions on the screen
- Set "Clock" first. (p. 15)

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.

1 (ok) 2

- Press to exit from a menu screen

 EXIT
- Press to go back to the Home screen



Preparations

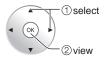
- Network connections (p. 39)
- Network settings (p. 40-42)

Display the Home screen



Select the item and press OK





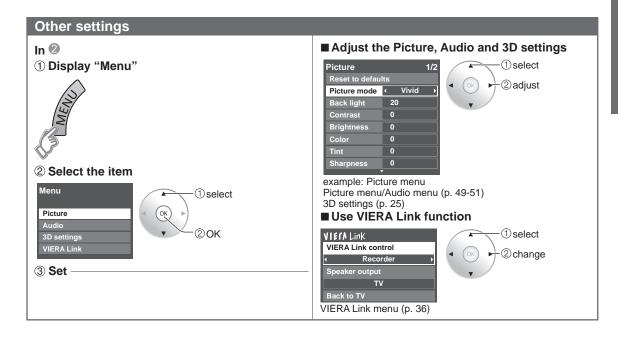
Video communication (e.g. Skype[™]) requires an exclusive Communication Camera TY-CC10W (p. 8).

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. 19) (Also available Game pad)



Using DLNA feature

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



Preparations

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



Display VIERA TOOLS

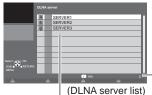


Select the "DLNA"





Select server
Display available server.



① select ① To

To display InformationINFOi

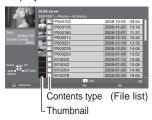
Available DLNA servers

Total listed number



Select contents

Display contents of selected server.





- To display Information
 - ⇒ i
- To display "Slideshow settings" (p. 28) (photo only)
- To display Optional
 menu *

■ Press to exit from a menu screen

X

■ Press to go back to the previous screen RETURN



View/Play

See "Using Media player" to operate. (p. 26-31)

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)



- Press to exit from a menu screen **EXIT** \bigcap
- Press to go back to the previous screen RETURN



- Network connections (p. 39)
- Network settings (p. 40-42)
 - Before connecting the Network camera to the TV, please complete "IP setting" and run "Connection test"



With all connected equipment turned on

Display "VIERA Link" menu



- If there is no registered camera displayed, please set it in Network Camera settings. (p. 42)
- There is also an option to start with sensor detection.



Select "Network camera"



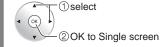


View

4 split screen

Default camera setting (p. 42)







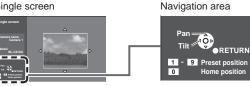
9 split screen







Single screen

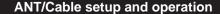


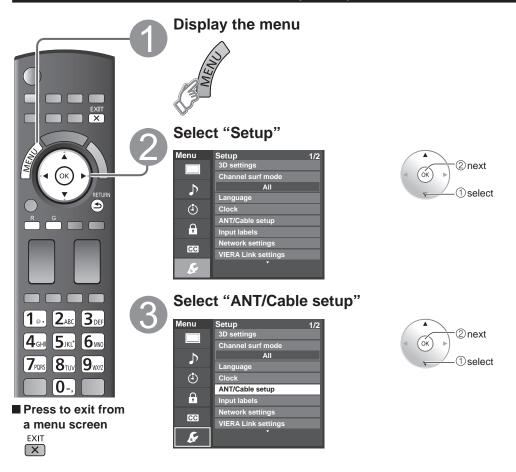
Note

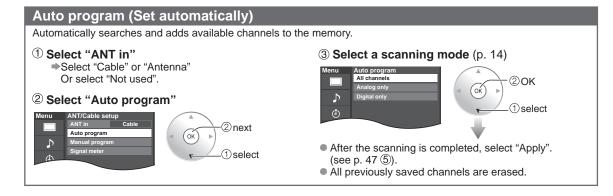
- A number of VIERA-compatible network cameras can be found at the following sites: http://www.panasonic.com/ http://panasonic.net/pcc/products/netwkcam/
- For more details on setting and operation of the Network camera, please also read the operating manual for the Network camera.

Editing and Setting Channels

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







Manual program (Set manually)

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

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

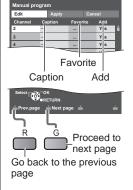
You can select a channel tuning mode (Digital only/Analog only) in "Channel surf mode" (p. 53)

1 Select "Edit"





2 Select the item to edit





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

③ Edit

Caption



Caption

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



1 . 2ARC 3DEF

4_{GHI} (5_{JKL}) (6_{MO}

7 (8 TUV) 9 (10.72

0-.

Favorite



Set favorite | Select the number

Add

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



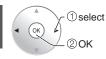
4 Move the cursor to a channel number





⑤ Select "Apply"



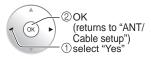


To cancel the Edit



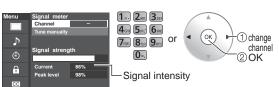






Signal meter (Check signal strength)

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



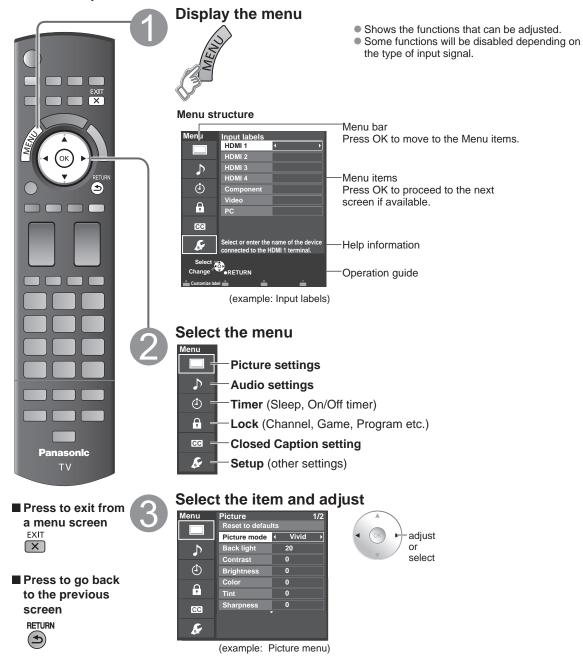
If the signal is weak, check the antenna.
 If no problem is found, consult your local dealer.

Note

- Not available if "Cable" is selected in "ANT in" (see p. 46).
- Available only for digital antenna channels.

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".

Picture se	ettings Ac	ljust the image c	or picture quality	
Settings	Items	Item Description		
Reset to defaults		Resets all picture ad	justments to factory default settings except for "Advanced picture	
Picture mode	Vivid	Provides enhanced	picture contrast and sharpness for viewing in a well-lit room.	
	Standard	Recommended for n	ormal viewing conditions with subdued room lighting.	
	Cinema	For watching movies	s in a darkened room. It provides a soft, film-like picture.	
	Game	For playing video ga	mes.	
	Custom (Photo)	Customizes each item according to your taste. Photo is displayed in JPEG menu.		
Back light		Adjusts the luminand 3D mode: (Minimun	ce of the back light. n(0)/Medium(50)/Maximum(100))	
Contrast, Brightness, Color, Tint, Sharpness		Adjusts the color, bri Display range	ightness, etc. for each picture mode to suit your taste Contrast/Brightness/Color/Sharpness : 0 - 100 Tint : -50 - +50	
Color temp.	Cool/Normal/Warm	Selects a choice of 0	Cool (blue), Normal, or Warm (red) color.	
Color mgmt.	Off/On	On: Enhances green	and blue color reproduction, especially outdoor scenes.	
A.I. picture	Off/On	Controls dark areas	without affecting the black level or brightness in the overall picture	
C.A.T.S.	Off/On	Automatically adjusts	s the screen brightness according to the ambient lighting conditio	
Video NR	Off/On	Reduces noise, com	monly 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	W/B high R, B		Adjusts the white balance for light red/blue areas.	
"Picture mode"	W/B low R, B		Adjusts the white balance for dark red/blue areas.	
setting in more	Red, Green, Blue hue		Adjusts the hue of red/green/blue areas.	
detail.)	Red, Green, Blue saturation		Adjusts the saturation of red/green/blue areas.	
	Color detail adjustment	Yellow, Cyan, Magenta hue	Adjusts the hue of yellow/cyan/magenta areas.	
		Yellow, Cyan, Magenta saturation	Adjusts the saturation of yellow/cyan/magenta areas.	
		Red, Green, Blue, Yellow, Cyan, Magenta luminance	Adjusts the luminance of red/green/blue/yellow/cyan/magenta areas.	
	Black extension		Adjusts the dark shades of the image in gradation.	
	Gamma adjustment	1.8/2.0/2.2/2.4/2.6	Gamma correction. Adjusts the intermediate brightness of the imag	
	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" adjustment.	
	grayed out dependi stments" will be gray		al or condition.	
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 screet 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 align	nment and size when aspect setting is "ZOOM".	

.	•			
Settings	Items	Item Description		
PC adjustments	Reset to defaults			
	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 proble is blurred.	em if a picture appears to be vertically-striped, flickers partially or	
	H-position	Adjusts the horizont	al position.	
	V-position	Adjusts the vertical	position.	
	Clock phase	First adjust the Dot of so that a clear picture	em 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	WXGA (1,280×76	xels), WVGA (852×480 pixels), XGA (1,024×768 pixels),	
	H-frequency V-frequency	Displays the H (Hori Display range Horizontal:15 - 110 I Vertical: 48 - 120		
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.	
	grayed out dependi n" will be grayed out		al or condition. high 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 Picture Pro 5	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.	
	3:2 pulldown	Off/On/Auto	Adjusts the picture recorded in 24 fps for optimum quality.	
	24p Direct in (3D mode only)	60Hz/48Hz	48Hz: Achieves more cinematic playback by reproducing the movie contents at twice the speed of 24 frames per second.	

Audio setti	ngs Adjust A	Audio quality	
Settings	Items	Item Description	
Reset to defaults		Resets Bass, Treble	e, and Balance adjustments to factory default settings.
Bass		Increases or decrea	ases 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		
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 this timer. (Off/On)		this timer. (Off/On)		
(On/Off timer)	Inputs	Sets the input to sel	Sets the input to select when the TV turns on.	
	Channel	Sets the channel to	Sets the channel to select when the TV turns on.	
	Day	MON-FRI/SAT-SUN	he TV turns on. ED/THU/FRI/SAT(displays the nearest future date) /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. 19)

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", "Game", "Program" and "VIERA Connect".		
	Custom	Locks specified inputs of "Channel", "Game", "Program" and "VIERA	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 restric according to TV ratings. On: Set each rating level (MPAA, US.TV, C.I		
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.)
iii digitai programij	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.

	Other t	function settings		
Settings	Items	Item Description		
3D settings	See p.25 for more	detail.		
Channel surf	All/Favorite/		ect the channel with the Channel up/down button.	
mode	Digital only/ Analog only	Favorite: Only chanr	els registered as FAVORITE. (p. 18)	
Language	English/ Español/ Français	Selects the screen n	nenu language.	
Clock		Adjusts the clock. (p	. 15)	
ANT/Cable setup	See p. 46-47 for m	ore detail.		
Input labels (Display labels of connected devices)	Devices connected selection. (Input selection. HDMI 1-4 Label: [BLANK] B	ect (p. 21)) 1/Component/Video/P Iu-ray/CABLE/SATELI	nals can be labeled for easier identification during the input	
	Not used)	
	You can also enter	r the label name direct	ly. (Entering characters (p. 19))	
Network settings	See p. 40-42 for m			
	See p. 34-35 for m			
ECO/energy saving	Power save (Standard/ Saving)	Reduces screen brig a dark room.	htness to lower power consumption. Eye-friendly for viewing in	
	No signal for 10 minutes (Stay on/ Power TV off)	OPERATION continu Not in use when "A "No signal for 10 m when the TV is turn signal for 10 minut	play will flash 3, 2 and 1 to indicate the last three (3) remaining	
	No activity for 3 hours (Stay on/ Power TV off)	side panel key contii Not in use when "A "PC inputs" is sele "No activity for 3 h the TV is turned or for 3 hours".	ours was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity olay will flash 3, 2 and 1 to indicate the last three (3) remaining	
Keyboard type		Select keyboard type	e. Operate USB keyboard (p. 19) nch/Canadian Multilingual Standard/Spanish (Latin	
Advanced setup	Auto power on (No/Yes)	Turns TV On automa	atically when the cable box or connected device is turned On. olugged into this device. TV turns on every time the power is restored.	
	Image viewer auto play	Slideshow/ Photos/Videos/ Music/Set later/ Off	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)	
	VIERA Connect Banner (On/Off)	Sets the banner disp	olay status.	
First time setup		Restarts the first time	e setup from "Language" setting. (p. 13)	
About		Displays TV version	and software license.	
Reset to defaults		Performing Reset wi Password setting/e	Il clear all settings made with Setup, such as channel settings. entering (p. 19)	

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.
X	ADULTS ONLY

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

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

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

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

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

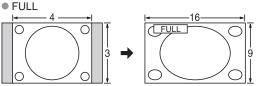
- The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins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

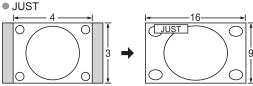
Aspect Ratio (FORMAT)

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. 18)

(e.g.: in case of 4:3 image)

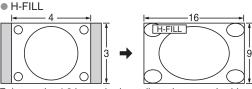


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

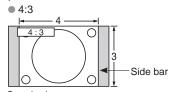


Stretches to justify the 4:3 image to the four corners of the

(Recommended for normal TV broadcast)



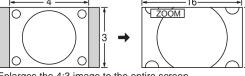
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.



Standard

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





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

Note

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

- Zoom adjustments
 - Vertical image position and size can be adjusted in "ZOOM".
 - ① Select "Zoom adjustments" on the "Picture" menu. (p. 49)
 - ② V-position: Vertical position adjustment
- ③ V-size: Vertical size adjustment













 To reset the aspect ratio (OK)

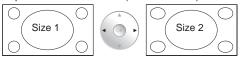
H size

Aspect Ratio: 4:3



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

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



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

Data format information

Compatible Data format for Media player (SD card/USB flash memory)/DLNA → p. 30

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

Cautions 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.)



SD Card/USB flash memory warning messages

Message	Meaning
No media. Please insert an SD memory card or USB storage device.	• The device is not inserted.
No media. Device removed.	• The device is removed.
No photos/ No movies/No music files to play/ No playable media	The device has no data or this type of data is not supported.
Cannot read file	The file is broken or unreadable.The TV does not support the format.

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

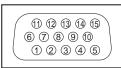
- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.
- When playing 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</u> not operate the Satellite or Cable box's CC function.
- 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.

PC Input Terminals

Signal Names for D-sub 15P Connector



Dim I		for DC	· Immii	Termina
PIN L	_avout	IOI PU	, mout	remnina

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

Input signal that can be displayed

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

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

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

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 LCD 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.)

Power cord plug

Wipe the plug with a dry cloth at regular intervals. (Moisture and dust can lead to fire or electrical shock.)

3D Eyewear

- Clean using a soft, dry cloth.
- Wiping the 3D Eyewear with a soft cloth that is covered in dust or dirt may scratch the eyewear. Shake off any dust from the cloth before use.
- Do not use benzene, thinner, or wax on the 3D Eyewear, as doing so may cause the paint to peel off.
- Do not submerge the 3D Eyewear in liquid such as water when cleaning.
- Avoid storing the 3D Eyewear in hot or highly humid locations.
- During the long period of disuse, full charge the 3D Eyewear once every 6 months to keep the battery performance.

Note

As the liquid crystal shutters (lens) are fragile and easily broken, be very careful when cleaning them.

Disposal

3D Eyewear

A lithium-ion polymer rechargeable battery is built in to the 3D Eyewear. Please discard according to local regulations. When disposing this product, disassemble properly by following the procedure below, and remove the internal rechargeable battery.

Do not disassemble this product except when disposing of it.

Danger

- As the rechargeable battery is specifically for this product, do not use it for any other device.
 - · Do not charge the removed battery.
 - Do not throw the battery in a fire, or apply heat to it.
 - Do not pierce the battery with a nail, subject it to an impact, or dismantle or modify it.
 - Do not let the wires touch any other metal or each other.
 - Do not carry or store the battery with a necklace, hair pin, or the like.
 - Do not charge, use, or leave the battery in a hot location such as near a fire or under the hot sun.

Doing so may cause the battery to generate heat, ignite, or rupture.

■ Warning

Do not place the removed battery, screws, and other items within reach of infants.

Accidental swallowing of such an item may have an adverse effect on the body.

- In the event that you think such an item has been swallowed, consult a doctor immediately.
- In the event of fluid leaking from the battery, take the following measure, and do not touch the fluid with bare hands.

Fluid entering into an eye may cause loss of eyesight.

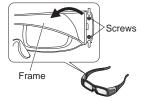
- Wash the eye with water immediately without rubbing it, and then consult a doctor.
- Fluid getting on your body or clothes may cause inflammation of the skin or injury.
- Sufficiently rinse with clean water, and then consult a doctor.

■ How to remove the battery

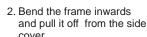
Disassemble this product after the battery has run out of power.

The following figures are intended to explain how to dispose of the product, not for describing how to repair. The product cannot be repaired once it has been disassembled.

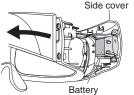
 Fold the part of the frame without the power switch, and then remove the two screws on the inside of the hinge with a precision Phillips (plus +) screwdriver.



rer C



 If it is difficult to remove, insert a flat-blade (minus -) screwdriver and force it off.



- Remove the battery from inside the side cover, and cut the two wires one by one with scissors.
- Insulate the wire parts of the removed battery with cellophane tape.



- Note
- Take sufficient care when performing this work so as not to injure yourself.
- Do not damage or dismantle the battery.

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)

Questions

How do I view the picture from devices such as a: Cable/ Satellite box, game console, Blu-ray or DVD player?

Why is there no picture or just a blue, black or snowy screen being displayed?

Why doesn't the picture look like it is in High Definition?

Why do black bars appear on the top and bottom and/or sides of the screen?

Why is the picture snowy when "ANT/Cable in" is selected?

Why is the picture chaotic and/ or torn and/or with a buzz in the speakers?

Why is there a black box on the screen?

Why is the screen blank and the power indicator blinking?

Why do some small spots on the screen remain bright or dark?

Answers

- Press the INPUT button on the remote to select the correct
- Check that the device is turned on and functioning correctly.
- Check if the power cord is plugged in and the TV is turned on (front red LED light should be on; not blinking)
- Press the INPUT button on the remote to select the correct input source.
- Ensure all connections are correct and secure.
- When using external video source, such as a Cable/Satellite box or DVD player, check that the device is on and functioning correctly.
- Press MENU on the TV's remote control. If the menu is displayed, then the TV is working; recheck above steps.
- Press the INFO button on the remote to confirm the type of signal being received (p. 17), HD signal should be 720P, 1080i or 1080p.
- Select a High Definition channel from your HD source (Cable, Satellite or fiber optic service). HD channels sometimes broadcast non-HD content.
- Ensure that your HD source (HD box, Blu-ray player, etc.) is connected to the TV with an HDMI or Component cable and set to output an HD video signal.
- Change the format (aspect ratio) of the picture by pressing the FORMAT button on the remote control. (p.18)
- Check the aspect settings on your external video source, such as Cable/Satellite box, DVD/Blu-ray Disc player, etc. Note: Some content, such as film-based movies, are available in extra-wide format. Top and bottom bars are unavoidable.
- When using a cable service (without a box), check that all connections are secure.
- When using a cable or satellite box, change the connection (wiring) to Composite, Component or HDMI. (p.11)
- If you're using an antenna, then check that connections are secure. Change the position or direction of the antenna and check the "Signal meter". (p. 47)
- Check if electrical products such as kitchen appliances, fluorescent lights or light dimmers are nearby. They may interfere with the TV's picture.
- Try viewing a picture from another device, such as a DVD player or a game console, to narrow down the source of the problem.

Change settings of Closed Caption (CC). (p. 17, 57)

- The TV has gone into shutdown mode to protect itself. Try unplugging it for a few minutes and connecting it again. If there was a temporary power surge on the AC line it may now be OK. If the blinking returns, call 1-877-95VIERA (U.S.A.) or 1-866-330-0014 (Canada).
- The LCD panel is made up of a few million pixels and is produced with advanced technology through an intricate process. Sometimes a few pixels may be bright or dark. These pixels do not indicate a defective panel and will have no impact on the performance of the TV.

Questions

Answers

Why is there no sound coming from the TV?

- Make sure the volume is up and MUTE is off.
- Confirm the TV speakers are set to ON by pressing MENU and selecting "Audio" --> "Advanced audio". (p. 51)
- Check that the correct SAP (Secondary Audio Program) is selected by pressing the SAP button on the remote control. (p. 17)
- If the TV is connected to a Panasonic Home Theater via HDMI cable, then check VIERA Link controls. (p. 37)
- If the TV is connected to a Home Theater via optical cable, then: Check the connection, the audio system is on, the correct input is selected.
- Check "HDMI 1 in", "HDMI 2 in", "HDMI 3 in" or "HDMI 4 in" analog/digital audio settings. (p. 51)

Why is the sound unusual, distorted, low volume or in another language?

Sound

- Check that the correct SAP (Secondary Audio Program) is selected by pressing the SAP button on the remote control.
- Check that all connections of external equipment connected to the TV are secure.
- When using Cable or Satellite box, check the device's audio settings. (example: try changing the box's Audio Range to 'narrow'

Why is there a clicking, ticking or buzzing sound coming from the TV unit?

- When TV power is turned on or shut off there are electrical components that make a click sound. This is normal operation.
- Changes in the temperature and humidity of the room may cause thermal expansion and contraction that can produce sounds. This is not a sign of faulty operation or a malfunction.

What is the easiest and best way to connect a High-Definition Cable or Satellite box to the TV?

Use an HDMI cable. It carries both digital video and audio signal in HD. HDMI cable is the only cable needed to connect an HD device to the TV.

Why does the CC button not display Closed Caption?

- When viewing TV via an HDMI connected device, such as a Cable or Satellite box, CC must be enabled at the device.
- Closed Caption is available only at supported TV programming.

Why does the screen and back cover of the TV get warm?

- The main unit radiates heat and some of the parts may become hot. This is normal operation and does not affect the performance of the set.
- Ensure good ventilation.
- Do not block the ventilation holes of the TV and do not place the TV on top of other equipment.

Why doesn't the Remote Control work?

- Check that the batteries are fresh, are of the same type and are installed with the correct polarity (+ & -).
- To operate other devices, such as changing channels when using Cable or Satellite boxes or operating non-Panasonic Bluray players, use the remote supplied with the device.

Why is the "ANT/Cable" option at the top of the "Input select" menu gray-out and cannot be selected?

During "First time setup", you indicated in step 3-1 that you are using Cable or Satellite box and in step (3)-(2)b that the box is connected to one of the TV's AV inputs. In this case, the Antenna/Cable input is deactivated to prevent unintentional switching into unused tuner. To re-activate, press MENU, select SETUP and repeat "First time setup".

Some menu items are grayed-out and cannot be selected. Why?

Depending on certain modes or the selected input, some options are not available. For example, Zoom adjustments are only available when the FORMAT is changed to zoom mode.

How do I get VIERA Connect to work on my TV?

- You need a broadband (high speed) Internet service with a speed of no less than 1.5 Mbps (p. 39).
- 2. Connect the TV to the Internet through your router by an Ethernet cable or a Panasonic Wireless LAN Adapter (included).
- Run the "Connections Test", under the Network Settings menu. If Connection test fails, then check with your Internet service provider or router/modem manufacturer if there are firewall, content filter or proxy settings that may block the TV from accessing the Internet.

Other

Answers

How do I check for the latest software (firmware) version for my TV?

In the main menu, select "Setup". Highlight "Network Settings" and press OK. Select "Software Update". The current version and latest version software will be shown. If software update is "grayed out", the TV is not connected to the Internet. If newer version is available, update your TV. Follow the onscreen instructions, do not power off the TV until the update is complete. Be patient; firmware update may take a while.

Can I use any USB WiFi adapter to connect the TV to my wireless network? The TV's internal software was designed to work with Panasonic's Wireless LAN Adapter (included).

How do I reset my TV to all factory defaults and settings?

In the main menu, select "Setup". Highlight "Reset to Defaults" and press OK. Enter your password (if created earlier) or create a temporary new password. Select Yes to reset the TV.

Can I download new apps (content & services) into my VIERA Connect TV?

Yes. Select the "VIERA Connect Market" item in the middle bottom of the VIERA Connect home screen. "VIERA Connect Market" allows you to find and install the applications to "VIERA Connect" home screen. (p. 43)

Why doesn't my 3D video source looks 3D?

- 1. Begin playing the 3D video source.
- 2. Ensure that the Panasonic 3D Eyewear (glasses) are on (check the glasses battery)
- 3. Press "3D" button directly or press the VIERA TOOLS button on the TV's remote control and select "3D"
- 4. In the "3D format select" menu, select "3D".

- 1. 3D Blu-ray discs must be played with a 3D capable Blu-ray player.
- 2. Check with your Cable or Satellite provider if their supplied box is 3D capable.
- 3. 3D signal must be connected to the TV via an HDMI cable.

When selecting some 3D video content, why are there two pictures next to each other?

- There are a few different 3D formats and the current setting may not match the incoming 3D signal. The format should change automatically, but depending on the source/connection it may not signal the TV properly. To manually select other 3D formats:
- Press "3D" button directly or press VIERA TOOLS button on the TV's remote control and select "3D"
- In the "3D format select" menu, choose another 3D format such as "side by side" or "top and bottom".
- Remember to switch the 3D format setting back to "AUTO" when you go back to viewing a standard 2D signal.

Why does the power on the 3D Eyewear (glasses) turn off by itself? The 3D Eyewear receives special synchronizing infrared signals from the TV. If no signal is received within 5 minutes, the 3D Eyewear automatically turns itself off to save power. Ensure that no objects are blocking the path between the 3D Eyewear and the TV.

Why does the left and right sides of the image seem reversed?

- The 3D format has two different "phases". Try the other phase:
 - 1. In the main menu, select "Setup". Highlight "3D setting" and press OK.
- 2. In the "3D Settings" menu, select "Left/Right Swap"

Can I use 3D glasses similar to the kind given at a 3D movie theater to watch 3D content on my 3D TV?

No. Movie theater's 3D glasses are passive. They use a simple filter 'lens'. Panasonic 3D Eyewear are actively synchronizing the left/right eye viewing with the display, providing a superior 3D viewing experience.

The battery of 3D Eyewear does not charge, or operation time is short when charged.

- Is the charging cable connected properly? Check the connection.
- Is the television power off?
- Turn the television power on, and charge the battery.
- The battery has reached the end of its lifespan. If operation time is very short even when the battery is charged, the battery has reached the end of its lifespan. Please consult with the place of purchase.

Networking

Frequently Asked Questions

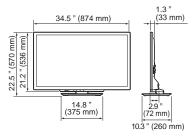
Specifications

		TC-L32DT30	TC-L37DT30	
Pow	er Source	AC 110-127 V, 60 Hz	10 23:2100	
Power Consumption	Rated Power Consumption	106 W	129 W	
of er	Standby condition	0.2 W	0.2 W	
	Aspect Ratio	16:9		
Display panel	Visible screen size	32" class (31.5 inches measured diagonally)	37" class (37.0 inches measured diagonally)	
/ pan	(W × H × Diagonal)	27.5 " x 15.4 " x 31.5 " (698 mm x 392 mm x 800 mm)	32.2 " × 18.1 " × 37.0 " (819 mm × 460 mm × 940 mm)	
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080(H)) [5,760 ×	1,080 dots]	
Sound	Speaker	1-way 2 bottom SP System		
pur	Audio Output	20 W [10 W + 10 W] (10 % THD)		
PC s	ignals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
	nnel Capability- C/NTSC (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135		
Oper	ating Conditions	Temperature: 32 °F - 95 °F (0 °C - 35°C) Humidity: 20 % - 80 % RH (non-condensing)		
	VIDEO IN	VIDEO: RCA PIN Type \times 1 1.0 V[p-p] (75 Ω) AUDIO L - R: RCA PIN Type \times 2 0.5 V [rms]		
Connection Terminals	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]		
ect	HDMI 1-4	TYPE A Connector × 4		
Ö		This TV supports "HDAVI Control 5" function		
Te	USB 1-3	USB 2.0 Type A connector x 3 (DC5V MAX500	JMA)	
₫.	LAN (for VIERA Connect)	RJ45 (10BASE-T/100BASE-TX)		
nals	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)		
	Card slot	SD CARD slot x 1		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
	TURES	3D Y/C FILTER CLOSED CAPTIO V-Chip VIERA connect 3D IMAGE VIEWER Media player	HDAVI Control 5	
Dimen	Including TV stand	29.6 " x 19.8 " x 9.1 " (751 mm x 502 mm x 230 mm)	34.5 " x 22.5 " x 10.3 " (874 mm x 570 mm x 260 mm)	
Dimensions (W×H×D)	TV Set only	29.6 " x 18.5 " x 1.3 " (2.9 ") (751 mm x 468 mm x 33 mm (72 mm))	34.5 " x 21.2 " x 1.3 " (2.9 ") (874 mm x 536 mm x 33 mm (72 mm))	
Mass	Including TV stand	28.7 lb. (13.0 kg) NET	34.2 lb. (15.5 kg) NET	
SS	TV Set only	22.1 lb. (10.0 kg) NET	27.6 lb. (12.5 kg) NET	



29.6 " (751 mm) (33 mm) (350 mm) (350 mm) (72 mm) (72 mm) (72 mm) (72 mm) (72 mm) (72 mm)

[TC-L37DT30]



Note

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

		3D Eyewear
Lens type		Liquid Crystal Shutter
Usage tempera	ture range	32°F - 104°F (0 °C - 40 °C)
Charging power	er supply	DC 5 V (supplied by USB terminal of a Panasonic TV)
Battery		Lithium-ion polymer rechargeable battery DC 3.7 V, 70 mAh Operation time*1: Approx. 30 hours Charging time*1: Approx. 2 hours
Viewing range*2		Transmitter for 3D Eyewear Within 10'5" (3.2 m) from front surface (Within ± 35° horizontal, ± 20° vertical)
Materials		Main body: Resin Lens section: Liquid crystal glass
Dimensions	Width	6.70 " (170.1 mm)
(not including nose pad part)	Height	1.63 " (41.2 mm)
nose pau part)	Overall length	6.69 " (169.8 mm)
Mass		Approx. 0.09 lb. (Approx. 39 g)

^{*1} Operation time/charging time

	Wireless LAN Adapter
Power supply	DC 5V (USB powered) 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, Canada, 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.

The battery deteriorates after repeated use, and the operation time eventually becomes short. The figures above are at shipping from the factory, and are not a guarantee of performance.

^{*2} Viewing range

The location of the 3D Eyewear transmitter (p. 12)

There are differences in the viewing range of the 3D Eyewear among individuals.
 The 3D Eyewear may not operate correctly at the outside of the viewing range.

This product incorporates the following software or technology:

- (1) the software developed independently by or for Panasonic Corporation,
- (2) the software owned by third party and licensed to Panasonic Corporation,
- (3) the software developed by the Independent JPEG Group,
- (4) the software developed by the FreeType Project,
- (5) the software licensed under the GNU LESSER General Public License (LGPL) and/or,
- (6) open sourced software other than the software licensed under the LGPL.
- (7) Windows Media digital right management technology (WM-DRM) licensed by Microsoft Corporation or its affiliates.

For the software categorized as (5), please refer to the terms and conditions of LGPL, as the case may be at http://www.gnu.org/licenses/lgpl-2.1.html

In addition, the software categorized as (5) are copyrighted by several individuals.

Please refer to the copyright notice of those individuals at

http://www.am-linux.jp/dl/DTV11U/

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At least three (3) years from delivery of products, Panasonic will give to any third parry who contact us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under LGPL.

Contact Information

cdrequest@am-linux.jp

Source code covered under LGPL is also freely available to you and any other member of the public via our website below. http://www.am-linux.jp/dl/DTV11U/

For the software categorized as (5) and (6), please refer to the applicable license terms included in the "Setup" menu on product.

Further, for WM-DRM categorized as (7), please be aware of the following.

(a) This product is protected by certain intellectual property rights of Microsoft.

Use or distribution of this technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.

(b) Content providers are using the digital rights management technology for Windows Media contained in this device ("WM-DRM") to protect the integrity of their content ("Secure Content") so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content ("WM-DRM Software"). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content ("Secure Content Owners") may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content.

Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation lists onto your device on behalf of Secure Content Owners.

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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 LCD 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.

LCD TV CATEGORIES	PARTS	LABOR	SERVICE
Up to 42" (diagonal)			Carry-In
46" (diagonal) and larger	1 (ONE) YEAR	1 (ONE) YEAR	On-Site
3D Eyewear			Mail In

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.

Mail-In Service

For assistance in the U.S.A. and Puerto Rico in obtaining replacement, please ship the product prepaid to:

Panasonic Exchange Center 4900 George McVay Drive Suite B McAllen, TX 78503

panacare@us.panasonic.com

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. When shipping Lithium Ion batteries please visit our Web Site at www.panasonic.com/BatteryHandling as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

Limited Warranty Limits And Exclusions

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

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

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

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

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

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

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases (United States and Puerto Rico)

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

Support Information

Limited Warranty (for Canada)

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

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact:

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

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

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

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

TC-L32DT30

32" LCD HDTV

CD		CATI	10
3 P		CATI	12

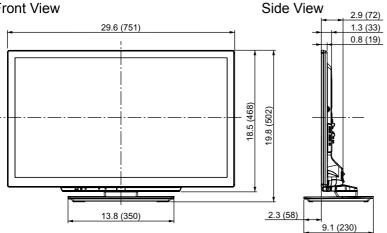
Dimensions (W x H x D)	29.6" (751 mm) x 19.8" (502 mm) x 9.1" (230 mm)
Dimensions (W XTTXD)	(Including TV stand)
	29.6" (751 mm) x 18.5" (468 mm) x 0.8" (1.3", 2.9")
	(19 mm (33 mm, 72 mm))
	(TV Set only)
Mass	28.7 lb. (13.0 kg) (Including TV stand)
	22.1 lb. (10.0 kg) (TV Set only)
Power Source	AC 110-127 V, 60 Hz
Rated Power Consumption	106 W
Standby condition	0.2 W

DIMENSIONS

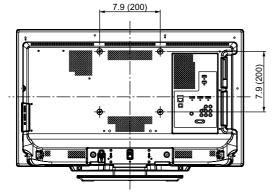
JACKS

Top View



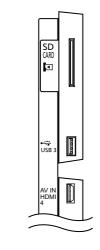


Back View

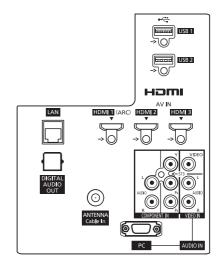


To make sure that the LCD TV fits the cabinet properly when a high degree of precision is required, we recommend that you use the LCD TV itself to make the necessary cabinet measurements. Panasonic cannot be responsible for inaccuracies in cabinet design or manufacture.

Side Panel



Rear Panel



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



TC-L37DT30

37" LCD HDTV

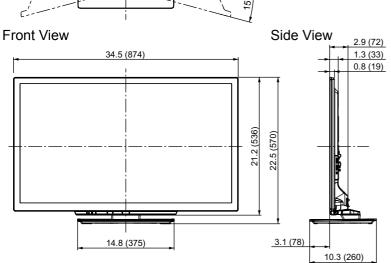
CD	ECI	CATI	10
OF		CAL	40

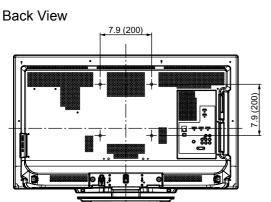
Dimensions (W x H x D)	34.5" (874 mm) x 22.5" (570 mm) x 10.3" (260 mm)
	(Including TV stand)
	34.5" (874 mm) x 21.2" (536 mm) x 0.8" (1.3", 2.9")
	(19 mm (33 mm, 72 mm))
	(TV Set only)
Mass	34.2 lb. (15.5 kg) (Including TV stand)
	27.6 lb. (12.5 kg) (TV Set only)
Power Source	AC 110-127 V, 60 Hz
Rated Power Consumption	129 W
Standby condition	0.2 W

DIMENSIONS

JACKS

Top View

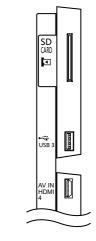




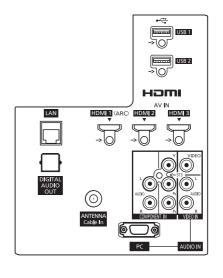
Note:

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

Side Panel



Rear Panel



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

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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.

Sólo Estados Unidos: La disposición puede estar regulada en su comunidad debido a consideraciones ambientales. Para información sobre la disposición o reciclaje, por favor visite la página web de Panasonic: http://www.panasonic.com/environmental ó llame al 1-888-769-0149.

Cust	hom	er's	: R	eco	ord

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
Wodel Hallibei	Ochai Maribei

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