This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: http://www.eiae.org.

Este producto tiene una lámpara fluorescente que contiene mercurio. Debido a consideraciones ambientales, puede que deshacerse de este material esté regulado en su comunidad. Para obtener información sobre cómo deshacerse o reciclar este material, póngase en contacto con las autoridades de su localidad o con Electronics Industries Alliance: http://www.eiae.org.

Customer's Record

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

Model Number	Serial Number

Anotación del cliente

El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y quardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los 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

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Panasonic

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

Manual de instrucciones

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

Model No. Número de modelo TC-L32S1

TC-L37S1

Quick Start Guide

(See page 8-16)

Guía de inicio rápido

(vea la página 8-16)



- For assistance (U.S.A./Puerto Rico), please call: 1-877-95-VIERA (958-4372) or visit us at www.panasonic.com/contactinfo
- For assistance (Canada), please call: 1-866-330-0014 or visit us at www.vieraconcierge.ca
- Para solicitar ayuda (EE.UU./Puerto Rico), llame al: 1-877-95-VIERA (958-4372) ó visítenos en www.panasonic.com/contactinfo











English

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

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.



Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement



HDINI MALERIA INTERSA CE

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

HDAVI Control™ is a trademark of Panasonic Corporation.

VIECA Link[™]

VIERA Link™ is a trademark of Panasonic Corporation.

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



SDHC Logo is a trademark.





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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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN





a triangle is intended to tell the user that important

operating and servicing

papers with the appliance.

instructions are in the



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.

Note to CATV System Installer

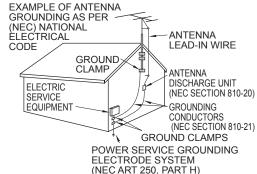
This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as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

- 1) Read these instructions.
- 2) Keep these instructions.
- Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) 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
- 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 vour 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.
 - If liquid has been spilled into the LCD TV.
 - If the LCD TV has been exposed to rain or water.
 - 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.

- 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) 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.

USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY. DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME

OR EQUIVALENT TYPE.

27) 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.

Safety Precautions (Continued)



▲WARNING

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

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

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 a "larger than life" flat panel displays. Care should be taken to install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they
 cannot be pulled or grabbed by curious children.

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

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

FCC STATEMENT

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

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

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

FCC Caution

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

FCC Declaration of Conformity Model No. TC-L32S1, TC-L37S1

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

Accessories/Optional Accessory

Accessories

Check you have all the items shown.

Accessories

- ☐ Remote Control
 Transmitter
 N2QAYB000321
- ☐ Batteries for the Remote Control Transmitter (2) ■ AA Battery









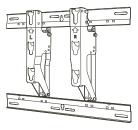




Accessories
Assembly screws (4)

- ☐ Operating Instructions
- ☐ Product Registration Card
- (U. S. A)
- ☐ Viera Concierge and basic instruction for HDTV
- C Customer Care Plan Card
 - (U. S. A)

Optional Accessory

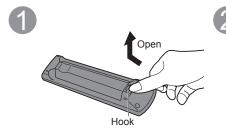


Wall-hanging bracket

TY-WK3L2RW

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.

Installing the remote's batteries





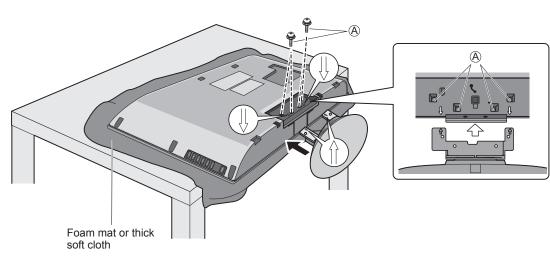
Note the correct polarity (+ or -).

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)
- Do not burn or break batteries.

Attaching the pedestal to TV

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



WARNING

Always be sure to ask a qualified technician to carry out set-up.
 Incorrect fitting may cause equipment to fall, resulting in injury and product damage.

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

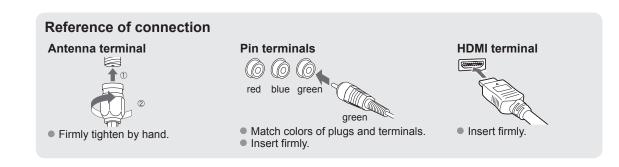
• Otherwise the TV may fall over and become damaged, and personal injury may result.

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

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

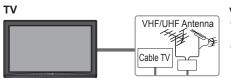
During set-up, make sure that all screws are securely tightened.

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



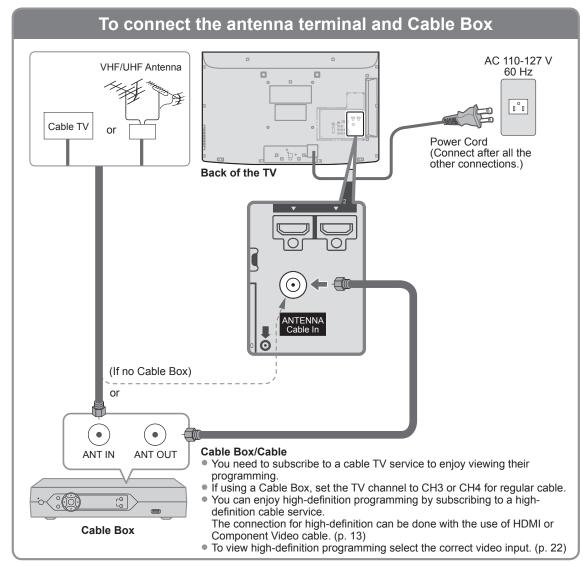
Basic Connection

Example 1 Connecting Antenna (To watch TV)



VHF/UHF Antenna

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



Note

- Not all cables and external equipment shown in this book are supplied with the TV.
- For more details on the external equipment's connections, please refer to the operating manuals for the equipment.
- For additional assistance, visit us at: www.panasonic.com www.panasonic.ca

Example 2 Connecting DVD recorder (VCR) (To record/playback)

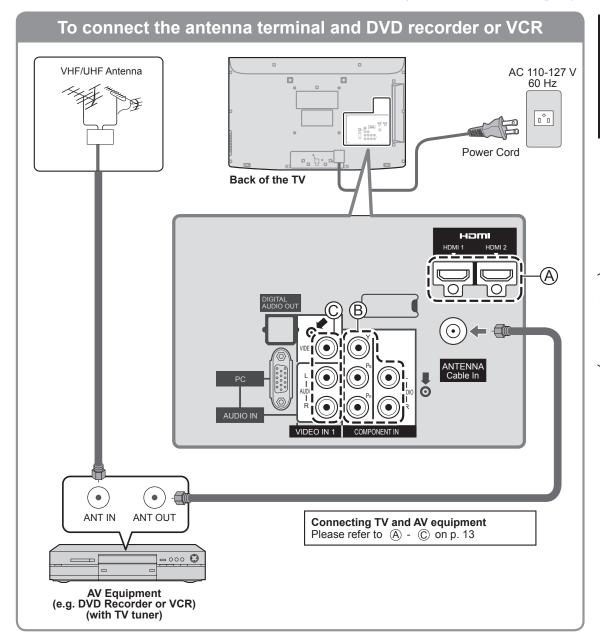


DVD Recorder

If the source has a higher resolution signal (480p/720p/1080i/1080p), connection can be made with the use of a Component Video or HDMI cable.

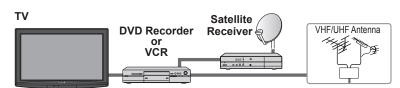
VCR

Connection can be made with the use of an RF cable and Composite Video/S Video cable. (p. 13)

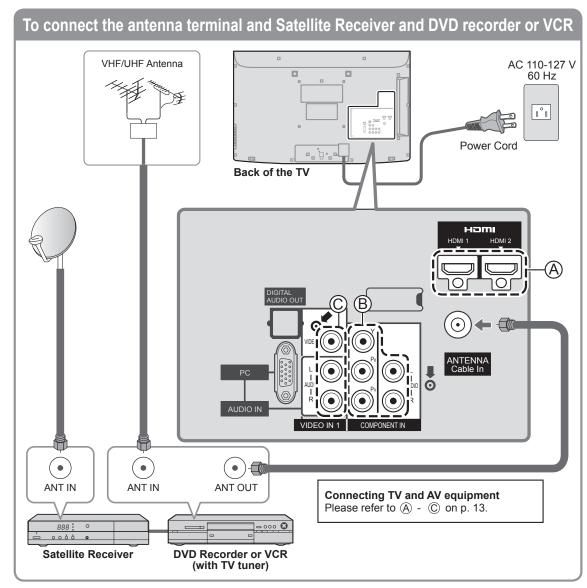


Basic Connection (Continued)

Example 3 Connecting DVD recorder (VCR) and satellite receiver



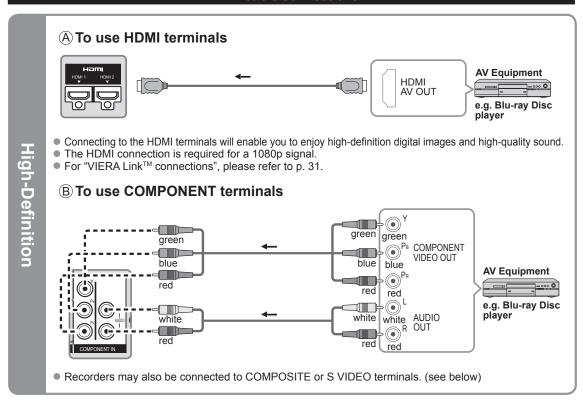
You can enjoy high-definition programming by subscribing to high-definition satellite service. Connection can be done with the use of HDMI or Component Video cable. (p. 13)

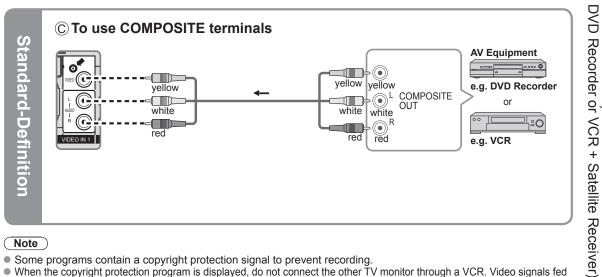


Note

For details of external equipment connections, please refer to the operating manuals for the equipment.

AV cable connections





Note

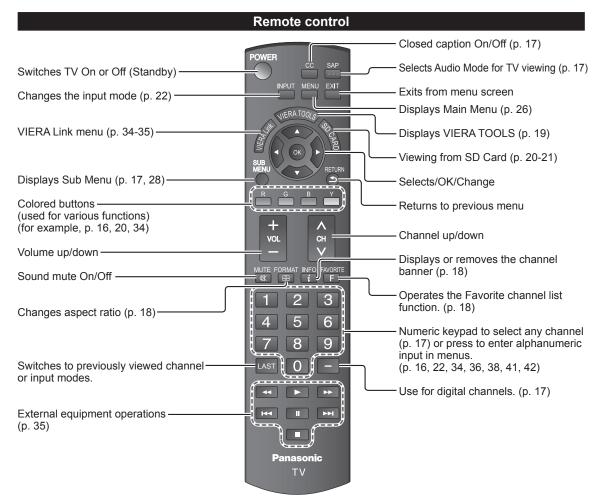
- Some programs contain a copyright protection signal to prevent recording.
- When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the other TV monitor.
- For more details on the external equipment's connections, please refer to the operating manuals of this equipment.

Identifying Controls

TV controls/indicators Front of the TV Selects channels in sequence Volume up/down Menu navigations Changes the input mode Power indicator Chooses menu and submenu entries. (on: red. off: no light) POWER button Remote control sensor

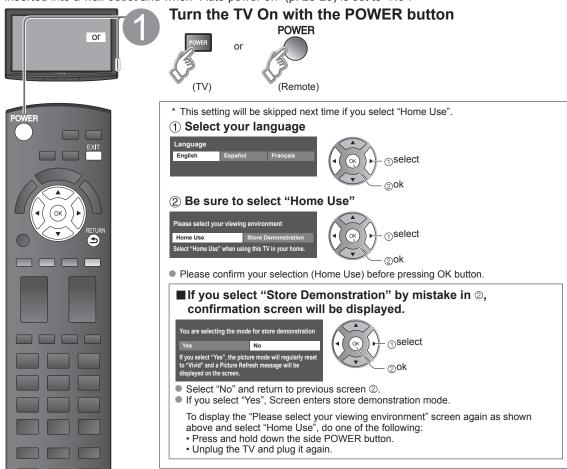
- The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.
- Do not place any objects between the TV remote control sensor and remote control.

Within about 23 feet (7 meters) in front of the TV set.



First Time Setup

"First time setup" 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. 28-29) is set to "No".



■ Press to exit from a menu screen

Panasonic

TV



■ Press to return to the previous screen RETURN



First time setup

Adjust the clock



Select the year Select the month Select the day Adjust the hour Minute: Adjust the minute

⊘next

①select

First Time Setup (Continued)

1 2 3 4 5 6 7 8 9 0 |

■ Press to exit from a menu screen



Note

- To change setting (Language/Clock/ ANT/Cable setup/ Input labels) later, go to Menu screen (p. 26)
- About broadcasting systems

Analog (NTSC):

Conventional broadcasting

Digital (ATSC):

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

Auto channel setup

1 Select "ANT/Cable setup"



2 Select "ANT in"



ANT in

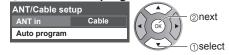
Cable: Cable TV Antenna: Antenna

Not used: Skip TV tuning ⇒ go to <

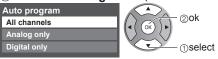
Select "Not used" when no wire is connected to the "Antenna/Cable" terminal.

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

③ Select "Auto program"



4 Select scanning mode (ALL channels/Analog only/Digital only)





Start scanning the channels

Available channels (analog/digital) are automatically set.

All channels: Scans digital and analog channels Analog only: Scans Analog channels only Digital only: Scans Digital channels only

(5) Confirm registered channels



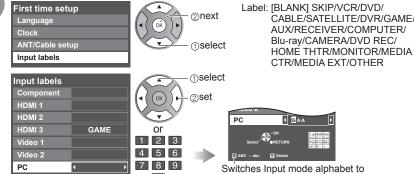
If OK is not pressed after selecting "Apply", the channels will not be saved. The channel will be saved when no operation is performed for 60 seconds and the "Manual program" menu will also exit automatically.

numeric

vlqqA"

If you perform scanning more than twice, previously saved channels are erased.

Set the Input labels



0

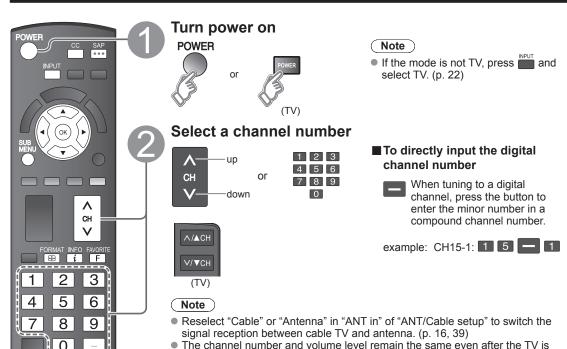
Watching TV

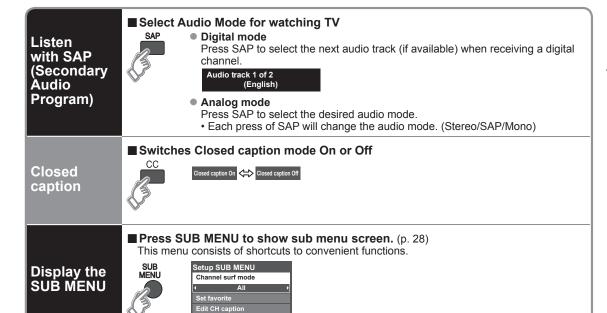
0

Connect the TV to a cable box/cable, set-top-box, satellite box or antenna cable (p. 10-13)

turned off

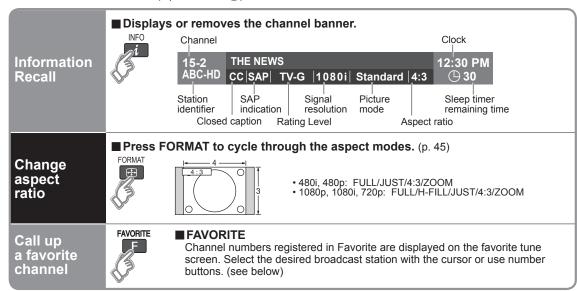






Watching TV (Continued)

■ Other Useful Functions (Operate after ②)







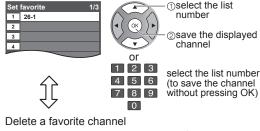
1 Display the SUB MENU.



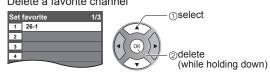
2 Select "Set favorite"



3 Set the displayed channel



⊕select



■Use Favorite Feature

1 Display "Favorite channels"



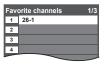
2 Select the channel







3 Set Favorite channel





■To change the page



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



Changes the page forward/backward

Using VIERA TOOLS

VIERA TOOLS are the easy way to access high use menu items. They are displayed as shortcut icons on the TV screen.

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



■ Press to exit from a menu screen

Press to return to the previous screen
RETURN

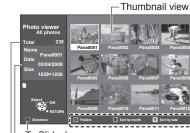
Viewing from an SD Card

You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)



Insert the SD card * This setting will be skipped next time unless you select "Set later". Set "SD card setting" and select "Play SD card now" • "SD card setting" will be displayed automatically each time an SD card is inserted for the first time. ①select Slideshow: A Slideshow will start automatically next time. Play SD card automatically Ochange Thumbnail: The Photo viewer menu will be displayed automatically next time. Play SD card now Set later: "SD card setting" menu will be displayed repeatedly. The data can be played manually. ■ Manual operation ("Play SD card automatically" is "Off") Display "Photo viewer" | Start Slideshow

Select the data to be viewed



Selected picture information is displayed.

Total number of images.

Note

Depending on the JPEG format, "Information" contents may not be displayed correctly. Refer to p. 46 (Data format for SD card browsing) for details.

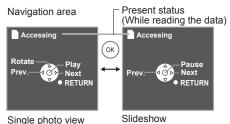
View





Displays one at a time

- To display/hide Navigation area ⇒
- Return to Thumbnail view

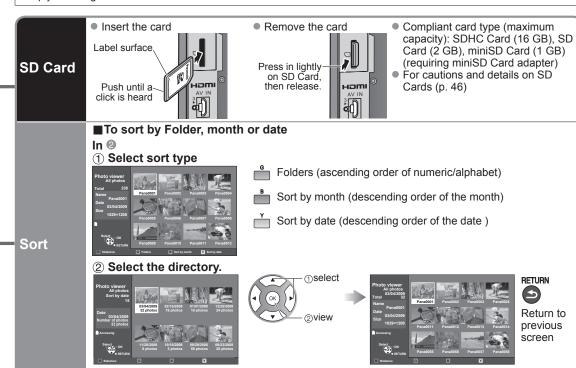


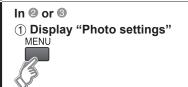


To previous photo

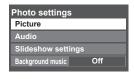
VIERA IMAGE VIEWER

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



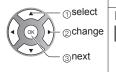


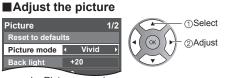
2 Select the item



Photo

settings





example :Picture menu/ Picture menu/Audio menu (p. 26)





Select the Background music from 3 types. Each Background music played for 90 seconds. (Off/Music 1/Music 2/Music 3)







To stop in mid-cycle → Press

Speed	You can set how many seconds each image is displayed in Slideshow mode. (Very fast/Fast/Medium/Slow/Very slow)
Repeat	Turn the slideshow Repeat function on or off (On/Off).
Transition	Select transition effect (Off /Wipe ↓/Wipe ↑/Wipe →/Wipe ←/Comb ↑↓ /Comb →←/Dissolve/Checker wipe/Random)
Effect	Select conversion effect (Off/Sepia/Gray scale)
	Repeat Transition

20

INFO i

Panasonic

■ Press to exit from a menu screen

■ Press to return

screen

RETURN

 \odot

to the previous

Watching Videos and DVDs

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

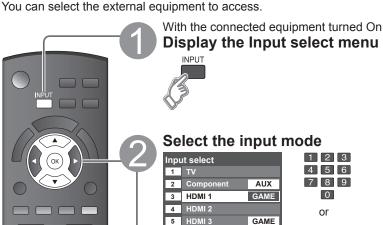
GAME

(example)

Terminal

Label

Input Select



6 Video 1 7 Video 2

8 PC

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

Select the input of your choice, then press OK.

- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- The terminal and label of the connected equipment are displayed. To label each of the inputs, please refer to p. 41.

Note

• The input label will be displayed on "Input select" screen if Input label is set on p. 41.

①select

- For side input terminals (HDMI 3/Video 2), "GAME" input label is set as default. (Picture mode is set to "Game", refer to p. 47.)
- For more details for picture mode setting, refer to p. 47. For Input label, refer to p. 41.

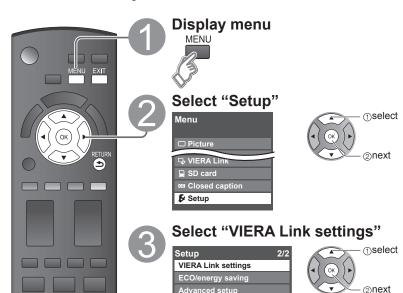
Operate the connected equipment using the remote control supplied with the equipment

(Note

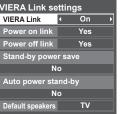
For details, see the manual of the connected equipment.

VIERA Link™ Setting

If you connect equipment that has the "HDAVI Control" function to a TV using an HDMI cable. you will find it easier to use. Please refer to p. 30-35. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



Select "VIERA Link"





a menu screen

■ Press to return to the previous screen RETURN

■Press to exit from



Select "On" (default is On)



Now you can set each "VIERA Link" function according to your preference (p. 32-35).

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

1 2 3

Panasonic

■ To return to TV

TV

6

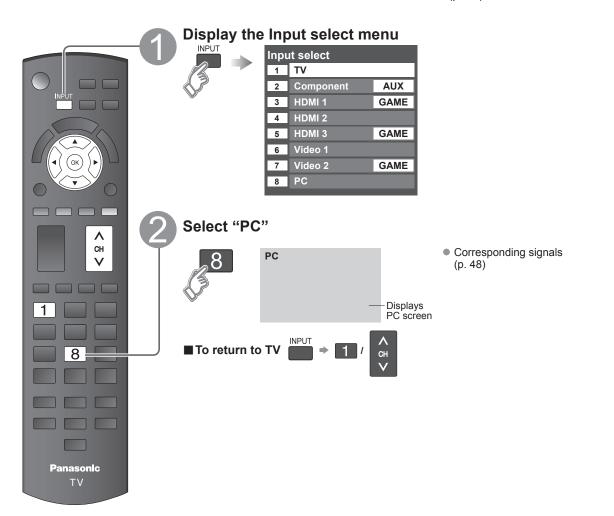
9

4 5

7 8

Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 43)



■ PC menu setting (change as desired)
■ Making settings ⇒ "How to Use Menu Functions" 1 to 4 (p. 26)

Menu	Ite	m	Adjustments/Configurations (options)
	PC adjustments	Reset to defaults	Resets PC adjust
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 48) On green: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 48)
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
		H-position	Adjusts the horizontal position.
Picture		V-position	Adjusts the vertical position.
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.
		Input resolution	Switches to wide display. Input signal switched from 640×480 to 800×480 Input signal switched from 1024×768 to 1280×768 or 1366×768
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. ■ Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz

Audio menu (p. 26)

How to Use Menu Functions

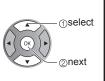
Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV best suited for you.



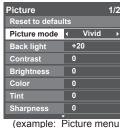
Displays the functions that can be set (varies depending on the input signal)

Select the menu

Menu		
□ Picture		
√ Audio		
① Timer		
∄ Lock		
□ VIERA Link		
■ SD card		
™ Closed caption		
₿ Setup		









(example: Picture menu)

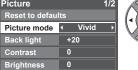
Adjust or select

(example: Picture menu)

■Press to exit from
a menu screen
EXIT

Panasonic

■ Press to return to the previous screen RETURN



adjust or select

■Menu list				
Menu	Item			
	Rese	t to defaults		
	Pictu			
	Back			
	Cont Colo			
	Colo			
	Colo			
	x.v.Color			
-		oicture		
ict	Vide			
ure		n adjustments djustments		
W	104	3D Y/C filter		
	٨	Color matrix		
	dva	MPEG NR		
	nce	Motion Focus		
	d b	Black level		
	Advanced picture	HD size		
		H size		
	Rese	t to defaults		
	Bass	i		
	Treb	-		
	Bala			
>		A.I. sound		
pn	Αď	Surround		
io	van	Bass boost		
	ced	Volume leveler		
	Advanced audio	TV speakers		
	dio	HDMI 1 in HDMI 2 in HDMI 3 in		
Timer	Slee	o, Timer 1-5		
Lock				
VIERA Link	Record now Stop recording VIERA Link control Speaker output			
SD card	SD c	ard		
Closed	Closed caption			
caption				

Adjustments/Configurations/oltares	ntivon)	
Adjustments/Configurations (alternations)		
Resets all picture adjustments to factory default settings except for "Advanced pict	ure".	Reset to defaults
Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 47)	Picture mode Vivid	
Adjusts luminance of the back light.		Back light +20
Adjusts color, brightness, etc. for each picture mode to suit your taste Display range	Contrast +20	Tint 0
Contrast/Brightness/Color/Sharpness: 0 - 100	Brightness 0	Sharpness 0
Tint: -50 - +50	Color 0	
Selects a choice of Cool(blue), Normal, or Warm(red) color. (Cool/Normal/Warm)	(O.C.)	Color temp. Cool
On: Enhances green and blue color reproduction, especially outdoor scenes. (On/		Color mgmt. On
Auto: Provide the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI		x.v.Color Auto
Controls dark areas without affecting the black level or brightness in the overall pic	,	A.I. picture On
Reduces noise, commonly called snow. Leave it off when receiving a strong signal	. (Oπ/On)	Video NR Off
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 45)		Zoom adjustments
Sets PC display (p. 24)		PC adjustments
Minimizes noise and cross-color in the picture. (On/Off) Selects image resolution of component-connected devices (HD/SD)		3D Y/C filter On
 SD: Standard Definition HD: High Definition 		Color matrix SD
 Only 480p signal accepted; regular TV (NTSC) is not available. 		
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)		MPEG NR Off
Improved moving picture quality by reducing motion blur. (On/Off)		Motion Focus Off
Selects Dark or Light. Valid only for external input signals. (Dark/Light)		Black level Light
Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95%	n signal. (Size 1/ Size 2)	HD size Size1
Size 2: Selected item for "HD size". Scanning 100%		
Adjust horizontal display range to reduce noise of both side edges of an image. (Size 2: Adjust image size according to aspect mode for reducing noise. (p. 48)	ize 1/Size 2)	H size Size 1
Resets Bass, Treble and Balance adjustments to factory default settings.		Reset to defaults
Increases or decreases the bass response.		Bass 0
Increases or decreases the treble response.		Treble 0
Emphasizes the left / right speaker volume.		Balance 0
Equalizes overall volume levels across all channels and external inputs. (On/Off)		A.I. sound On
Enhances audio response when listening to stereo. (On/Off)		Surround Off
Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "Off" is set in "TV speakers".		Bass boost Off
Minimizes volume disparity after switching to external inputs.		Volume leveler 0
Switch to "Off" when using external speakers (On/Off) • "A.I. sound", "Surround", "Volume leveler" and "Bass boost" do not work if "Off" is	s selected.	TV speakers On
The default setting is "Digital" for HDMI connection. (Digital input signal)		HDMI1 in Digital
Select audio input terminal when DVI cable is connected. (Analog audio input signa	al)	HDMI2 in Digital
(Digital/Component/Video 1/Video 2)		HDMI3 in Digital
The TV can automatically turn On/Off at the designated date and time (p. 42)		
Locks the channels and programs (p. 36)		
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote control (p. 34 [VIERA Link control] Selects equipment to access and operate. (Recorder/Home theater/Player/Camo [Speaker output] Selects an audio output. (Home theater/TV) (p. 34-35) VIERA Link menu is accessible directly by pressing the VIERA Link button on the	corder/LUMIX) (p. 34-38	(p. 34)
Displays SD card data (p. 20-21)		SD card
. , , , , , , , , , , , , , , , , , , ,		

• In AV mode, the Audio menu and Setup menu give fewer options.

Displays subtitles (Closed caption) (p. 40)

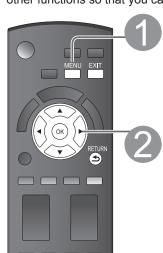
Bass boost sound feature do not work when using headphones.

26

Closed caption

How to Use Menu Functions

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

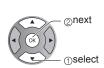


Display menu

 Displays the functions that can be set (varies depending on the input signal)

Select "Setup"





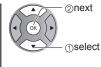
■ Press to exit from a menu screen

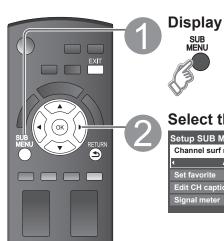
■ Press to return to the previous screen RETURN



Select the item







Display Sub Menu

Select the item





• Wenu list			
Menu	Item		
	Char	nnel surf mode	
	Language		
	Cloc	k	
	ANT	Cable setup	
	Inpu	t labels	
	<	VIERA Link	
	TER/	Power on link	
	A Lir	Power off link	
	VIERA Link settings	Stand-by power save	
	ings	Auto power stand-by	
Set		Default speakers	
dn:	ECO/energy saving	Power save	
		No signal for 10 minutes	
		No activity for 3 hours	
	Advanced setup	Auto power on	
		Play SD card automatically	
	Abou	ut	
	Reset to defaults		
Cub manu list			

■ Sub menu list

Menu	Item	
SL	Channel surf mode	
Se:	Set favorite	
¥ E duj	Edit CH caption	
Ę	Signal meter	

(Continued)

Adjustments/Configurations (alternatives)	
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) Favorite: Only channels registered as FAVORITE (p. 18)	Channel surf mode ✓ All
Selects the screen menu language (p. 15)	Language
Adjusts the clock (p. 15)	Clock
Sets channels (p. 39)	ANT/Cable setup
Selects the terminal and label of the external equipment (p. 41)	Input labels
Controls equipment connected to HDMI terminals (p. 32) (On/Off) "Power off link", "Power on link", "Stand-by power save", "Auto power stand-by" and "Default speakers" cannot be selected if "Off" is set.	VIERA Link Or
Sets "Power on link" of HDMI connection equipment (p. 32) (Yes/No)	Power on link Yes
Sets "Power off link" of HDMI connection equipment (p. 32) (Yes/No)	Power off link Ye
Set "Stand-by power save" of HDMI connection equipment. (p. 32) (No/Yes)	Stand-by power save
Set "Auto power stand-by" of HDMI connection equipment. (p. 32) (No/Yes (with reminder)/Yes (no reminder)	Auto power stand-by
Selects the default speakers (p. 32) (TV/Theater)	Default speakers TV
Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. (Standard/Saving)	Power save Stand
To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Enable/Disable) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode" or Digital channel. "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal for 10 minutes". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No signal for 10 min
To conserve energy, the TV automatically turns off when no operation of remote or side panel key continues for more than 3 hours. (Enable/Disable) Note Not in use when setting "Auto power on", "On/Off Timer or PC input display. "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No activity for 3 hours". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No activity for 3 hou
Turns TV On automatically when the cable box or a connected device is turned On (No/Yes) TV power cord must be plugged into this device. TV comes on every time the power is restored. The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 42)	Auto power on No
Set "Thumbnail" or "Slideshow" to play back SD cards automatically. (Slideshow/Thumbnail/Set later/Off)	Play SD card automati
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 38)	Reset to defaults

Adjustments/Configurations (alternatives)		
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only)		
Sets favorite channels. (p. 18)		
Changes the station identifier. (p. 39)		
Checks the signal strength if interference or freezing occurs on a digital image. (p. 39)		

VIERA LinkTM "HDAVI ControlTM"*

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote. Enjoy additional HDMI Inter-Operability with Panasonic products which have the "HDAVI Control" function. This TV supports "HDAVI Control 4" function.

Connections to some Panasonic equipment (DVD recorder DIGA, HD Camcorder, Player theatre, RAM theater, Amplifier, etc.) with HDMI cables allow you to interface with them automatically.

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

Version	Operations	
HDAVI Control or later	 Automatic Input Switching (p. 33) Power on link (p. 33) Power off link (p. 33) Default speakers (p. 33) One-touch theater playback (p. 33) Speaker control (p. 35) 	
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control(P. 35) Auto power stand-by (for available equipment only) (p. 33) Direct TV recording (p. 35) 	
HDAVI Control 3 or later	Providing the setting information (p. 33)Automatic lip-sync function (p. 33)	
HDAVI Control 4	Stand-by power save (with quick start mode) (p. 33)	

For the first time/When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1. HDMI2 or HDMI3 (p. 22), and make sure that the image is displayed correctly.

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

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHF15 (4.9 ft/1.5 m), RP-CDHG15 (4.9 ft/1.5 m), RP-CDHF30 (9.8 ft/3.0 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)

VIERA Link™ Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), RAM theater, or Player theater system. Refer to page 32-35 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

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

Note

HDMI 1 is recommended.

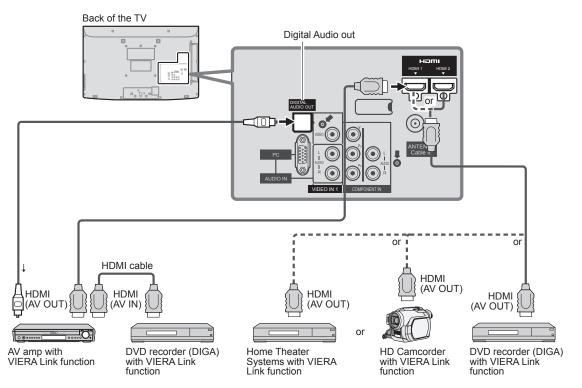
When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 22) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 32-35).

■ Connecting this unit to the DVD recorder (DIGA), RAM theater, or Player theater

- For DVD recorder (DIGA): Connect with HDMI cable
- For RAM theater and Player theater: Connect with the HDMI and audio cables. If audio cable is not connected, you cannot listen to the TV program through the theater system.

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

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



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

■ Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link settings") to "On" using the Setup menu. (p. 23, 32-35).

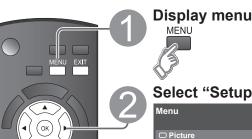
Note

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

For details about HDMI cable for connecting Panasonic HD camcorder, read the manual for the equipment.

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

VIERA LinkTM "HDAVI ControlTM"*

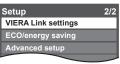






3

Select "VIERA Link settings"







Select "VIERA Link"





Press to exit from







Panasonic

TV

■ Press to return to the previous screen RETURN

Select settings





7

Set

VIERA Link settings					
VIERA Link	On				
Power on link	Yes				
Power off link Yes					
Stand-by power save					
No					
Auto power stand-by					
No					
Default speakers ← Theater →					



Automatic Input

Switching

Power on link

Power off link

Stand-by power save (for "HDAVI Control 4" (with quick start mode))

Auto power stand-by (for "HDAVI Control 2 or later")

Default speakers

One-touch theater playback

Providing the setting information (for "HDAVI Control 3 or later")

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

(Continued)

At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input based on the playback equipment.

For the RAM theater, the speakers automatically switch to the theater system.

If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed.

When "Yes" is selected (p. 29), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected.

When "Yes" is selected (p. 29) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

• DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode.

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

Condition

Power off link: Yes, Stand-by power save: Yes

The equipment has "HDAVI Control 4 (with quick start mode)" connected with HDMI cable.

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

* Minimum power consumption of standby condition for the equipment.

Condition

Auto power stand-by: Yes.

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

[Examples of timing for operation]

When the input is switched from HDMI.

• When the "Speaker output" is changed from "Home theater" to "TV".

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

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

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

① Home Theater power switches On, and playback begins.

2 TV power switches On, and the playback screen is displayed.

3 Audio is muted on the TV and switches to the theater system.

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

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

Note

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

[For Recorder

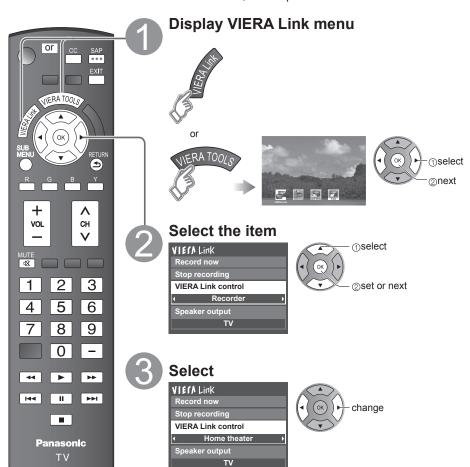
• You cannot operate other functions while transmitting TV's information above except Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ④ Channel information).

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

VIERA Link™ "HDAVI Control™"

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

For more details on the "HDAVI Control" function, refer to p. 30



■ Press to exit from a menu screen EXIT



■ Press to return to the previous screen RETURN



Direct TV recording (for "HDAVI Control 3 or

later")

Speaker

VIERA Link control

only with the

TV's remote

(for "HDAVI

Control 2 or

control

later")

control

(Continued)

You can select Home theater or TV speakers for audio output. **Home theater:** Adjustment for equipment Control theater speakers with the TV's remote control. This function is available only when Panasonic Amplifier or Player theater is connected.

1 Select "Speaker output"

2 Select "Home theater" or "TV"



Volume up / down →

Mute ⇒

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

In the VIERA Link menu, you can select HDMI connected equipment and access it quickly. Continue using your TV's 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)



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.

Note

 There is a limit to the number of HDMI connectors.

- ③ Operate the equipment with the TV's remote control, pointing it at the TV.
- To operate the equipment, read the manual of the equipment.
- Available TV's remote control buttons

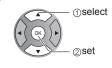
Whether an operation is available differs depending on the connected equipment.

	inci an operation is available differs depending on the conficence equipment.				
	Move the cursor/Select	▶	Play		
OK OK	Set/Access		Stop		
RETURN	Return to previous menu	₩ >>	Reverse/Forward		
SUB MENU	Display the functions menu on the equipment	K4 ÞN	Skip Reverse/Forward		
R G B Y	Available when the purpose of the keys is displayed on screen		Pause		
EXIT	Exit	CC	Closed caption		
\ он >	Channel Up/Down	SAP	SAP (Select Audio Mode)		
0 - 9	0-9		Select digital subchannel		

Records the current program on the recorder immediately.

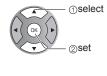
1 Select "Record now"





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

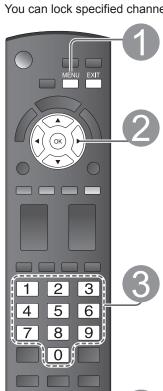




- For optimal recording, the settings of the recorder might
 Recording will not stop automatically when the be required. For details, read the manual of the recorder. program is finished.

Lock

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

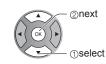


Display menu



Select "Lock"





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

Input your 4-digit password

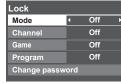
A 4-digit code must be entered to view a blocked program or change rating settings.

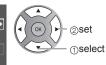




• If it is your first time entering the password, enter the password twice in order to register it.

Select the Lock mode





Unlocks all the lock settings of "Channel", "Game" and "Program".

Locks all the inputs regardless of the lock settings of "Channel", "Game" and "Program".

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

■ Press to exit from a menu screen

Panasonic

TV



Caution

Note

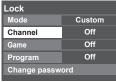
Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)



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

your password.

Select the item

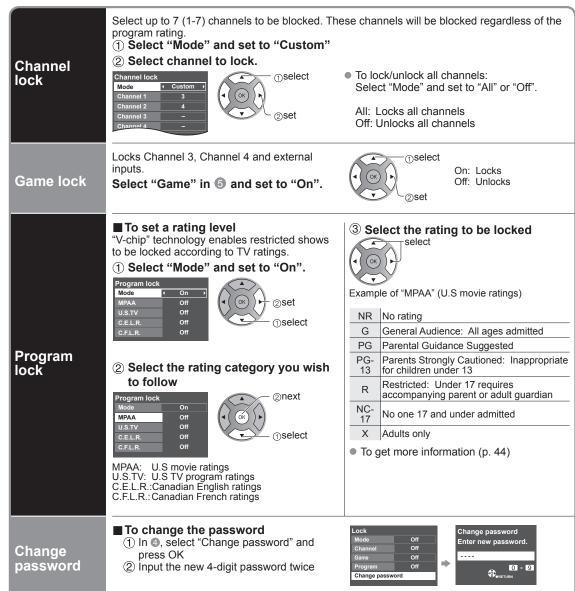




"Channel", "Game" and "Program" are not accessible unless "Custom" is selected in "Mode".

Set

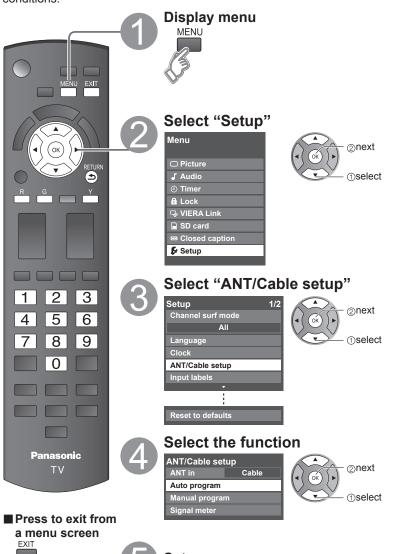
■ To select the channel or the rating of the program to be locked



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

Editing and Setting Channels

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





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



Signal

meter

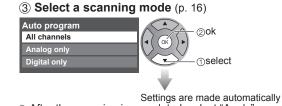
Check

signal

strength

Automatically searches and adds available channels to the memory. 1 Select "ANT in" Select Cable or Antenna. Or select "Not used" (p. 16). ② Select "Auto program"





• After the scanning is completed, select "Apply" (see below (5)).

All previously saved channels are erased.

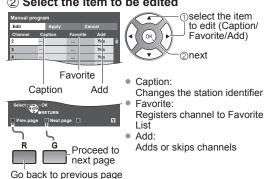
Use this procedure when changing the channel setup or changing the channel display.

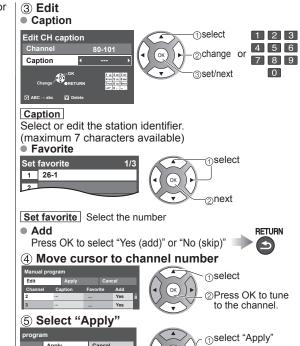
Also, use this to add or skip channels from the channel list manually.

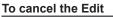
You can select a channel tuning mode (Digital only/ Analog only) in "Channel surf mode" (p. 28)

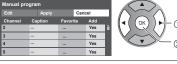






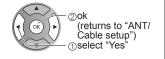




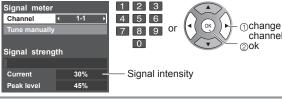




Note



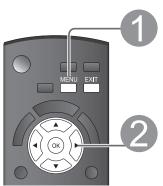
Check the signal strength if an interference is found or freezing occurs on a digital image.



- If the signal is weak, check the antenna. If no problem is found, consult your local dealer.
- Not available if "Cable" is selected in "ANT in" (see above). Available only for digital antenna channels.
- If "Lock" (p. 36) is activated and "ANT/Cable setup" is selected, "Enter password." will be displayed.

channel

Closed Caption



■ Press to exit from a menu screen

Closed caption

Display Closed

caption

Display menu



Select "Closed caption"





The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed caption (CC) information. (p. 45)

■ Select the item and set

Reset to defaults					
Mode On					
Þ					
Digital setting					

1) select

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

Mode Select "On" (when not using, select

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

CC1-4: Information related to pictures

(Appears at bottom of screen) Textual information T1-4:

(Appears over entire screen)

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

Select the setting.

captioning.)

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

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

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

© Coloot the item a					
Digital setting					
Size	Automatic				
Font	Automatic				
Style	Automatic				
Foreground	◆ Automatic →				
Fore. opacity	Automatic				
Background	Automatic				
Back. opacity	Automatic				
Outline	Automatic				



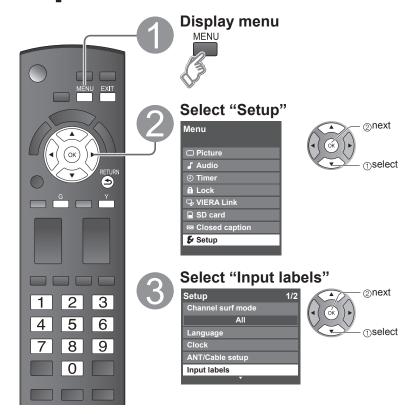
- Size: Text size Font: Text font
- Style: Text style (Raised, Depressed, etc.)
- Foreground: Color of text
- Fore. opacity: Opacity of text
- Background: Color of text box
- Back. opacity: Opacity of text box
- Outline: Outline color of text

(Identify the setting options on the screen.)

■ To reset the settings

Select "Reset to defaults" and press OK

Input Labels



■ Press to exit from a menu screen



devices

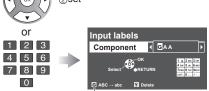


Devices connected to external input terminals can be labeled for easier identification during input selection. (In selecting input mode from p. 22 2)

■ Select the terminal and label of the external equipment

nselect





Switches Input mode from alphabetical to numeric Terminals: Component/HDMI 1-3/Video 1-2/PC

• Label: [BLANK] SKIP/VCR/DVD/CABLE/SATELLITE/DVR/GAME/ AUX/RECEIVER/COMPUTER/Blu-ray/CAMERA/DVD REC/ HOME THTR/MONITOR/MEDIA CTR/MEDIA EXT/OTHER

For the PC terminal, only "SKIP" is available.

- * If "SKIP" is selected, the INPUT button press will skip its input.
- Each selected label will be displayed on "Input select" screen. (p. 22)

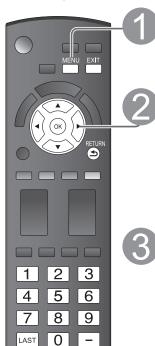
Label Terminal [example]

43

Using Timer

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

- The Clock must be set before On time/Off time settings. (p. 15)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 28) is set.



a menu screen

■ Press to return

to the previous

The TV automatically

minutes when turned

This operation will be

time is selected or if a

cancelled if the Off

turns Off after 90

On by the Timer.

key is pressed.

EXIT

screen

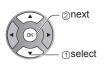
RETURN

Note

Display menu

Select "Timer"





Select the timer to set





I ≀ Timer 5

■ Press to exit from Set the timer

■To set "Sleep" (Off Timer)
Set to shut the unit off after a pre-selected amount of time.





0/30/60/90 (minutes)

■ To set "Timer 1-5" (On/Off Timer) Select the item and set





(5 timers can be set.)





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

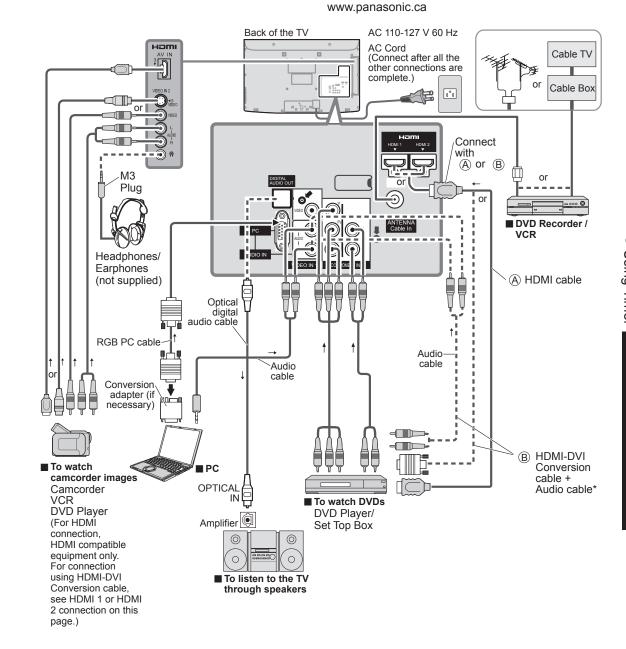
Day Select the day
SUN/MON/TUE/WED/THU/FRI/SAT

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

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

Recommended AV Connections

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



^{*} Please see p. 26-27 for setup when using an external analog audio cable with an HDMI to DVI cable.

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 37)

■ 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-Y	ViewableBlocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
Youth	TV-Y7	FV BlockedViewableBlocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
	TV-G	ViewableBlocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG • Any combinatio D, L, S, V	D,L,S,V (all selected)Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
Guidance	TV-14	D,L,S,V (all selected)Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	L,S,V (all selected)Any combination of L, S, V	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

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

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

E	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.			
С	Programming intended for children under age 8. No offensive language, nudity or sexual content.			
C8+	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 light or occasional violence. Adult supervision recommended.					
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.				
16 ans+	Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.				
18 ans+ Programming restricted to adults. Contains constant violence or scenes of extreme violence.					

Caution

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

Technical Information

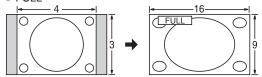
Closed caption (CC)

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

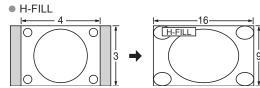
Aspect Ratio (FORMAT)

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 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)

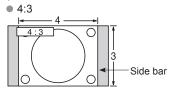


Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

JUST 16 JUST O

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

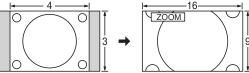
(Recommended for normal TV broadcast)



Standard

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

ZOOM



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. 26-27)
- ② V-position: Vertical position adjustment

③ V-size: Vertical size adjustment













To reset the aspect ratio



Technical Information (Continued)

Data format for SD Card browsing

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

standards

Data format: Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)

Max. number of files: 9,999

Image resolution: 160 x 120 to 10,000,000

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

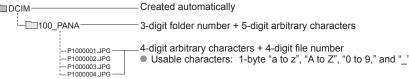
** EXIF (Exchangeable Image File Format)

Caution

- A JPEG image modified with a PC may not be displayed.
- Partly degraded files might be displayed at a reduced resolution.

Note

Folder structure viewed in PC



- The folder and file names may be different depending on the digital camera used.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.jp/support/global/cs (This site is in English only)

Cautions in handling SD Card:

- 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 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 warning messages				
Message) (Meaning		
SD card slot is empty.		The card is not inserted.		
No photos		The card 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.		

VIERA Link™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 30)

- 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 TV is in Standby mode
- Image or sound may not be available for the first few seconds when the 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 the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link™ is available for the terminal with the smaller number.
- If you connect equipment that has "HDAVI Control 2 or later" function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 4" is the newest standard (current as of December, 2008) for the HDAVI Control compatible equipment.
 This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 26)
 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", "S VIDEO", 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. 48.

DIGITAL AUDIO OUT terminals

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

(Caution)

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.

Picture mode

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

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

Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.

Game: For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 41)

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

Photo is displayed in JPEG menu.

Note

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

Technical Information (Continued)

H size

Aspect Ratio: 4:3





- The width will be decreased on both sides to
- Aspect Ratio: FULL/JUST(H-FILL/ZOOM)







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

See pages 26-27 for more information

Input signal that can be displayed

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

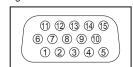
Mark. Applicable input of	gridi for Component (1, 1 b, 1 i	ry, ribivii ana i o			
	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 768 @60	47.70	60.00			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00		-	*

Note

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

PC Input Terminals Connection

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



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

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-

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

Pedestal

Cleaning

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

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

Power cord plug

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

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 54, 55)

1 2 3

4 5 6

7 8 9

LAST 0 -

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H4 II PH

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

www.panasonic.com/contactinfo

www.panasonic.ca

White spots or shadow images (noise)





 Check the position, direction, and connection of the antenna

Interference or frozen digital channels (intermittent sound)

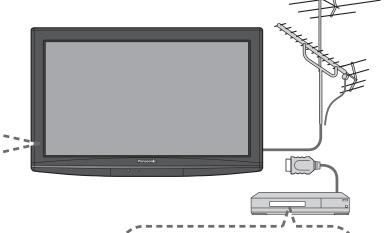


- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 39). If the signal is weak, check the antenna and consult your local

The LCD panel moves slightly when it is pushed with a finger. A clattering sound might be heard

This is not a malfunction.

 There is some looseness around the panel to prevent the damage to the panel.



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

- Is the HDMI cable connected properly? (p. 31, 43)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment.
- Üse equipment compliant with EIA/CEA-861/861B.

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

This is not a malfunction.

Recording does not start immediately

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

The remote control does not work

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

If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

Problem

Actions

Some spots remain bright or dark

• 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.

Chaotic image, noisy

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

No image can be displayed

- Check Picture menu (p. 26)
- Check the cable connections. Check that the correct input has been selected.

Only spots are displayed instead of images

- Check the channel settings. (p. 38)
- Check the antenna cables.

Neither image nor sound is produced

- Is the power cord plugged into the outlet?
- Is the TV unit turned On?
- Check Picture menu (p. 26) and volume.
- Check the AV cable connections. (p. 10-13)
- Check that the correct input has been selected. (p. 22)

Black Box appears

Change settings of Closed caption (CC). (p. 40)

No sound is produced

- Are the speakers' cables connected correctly? (p. 43)
- Is "Sound Mute" active? (p. 14)
- Is the volume set to the minimum? Is "TV speakers" set to "Off"? (p. 26)
- Change "SAP" settings. (p. 17)
- Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 26)

1- Changes in the temperature and humidity of the room may cause

the TV's cabinet to expand or contract and produce metallic

sounds. This is not a sign of faulty operation or a malfunction.

2- When the TV is powered on, an electrical component in the TV

Sound is unusual

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

Unknown sound heard

- 1- Sounds from TV cabinet
- 2- Tick/Click sound
- 3- Buzzing sound
- activates producing a tick/click sound. This is not a sign of faulty
 - operation or a malfunction. 3- Electrical circuits are active while the TV set is on.
 - This is not a sign of faulty operation or a malfunction. The main unit radiates heat and some of the parts may

become hot. This is not a problem for performance or

The main unit is hot.

Set up in a location with good ventilation. Do not cover the ventilation holes of the TV with a

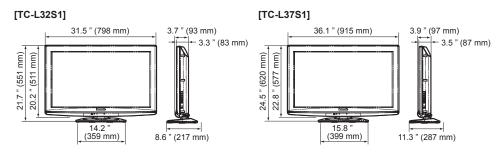
tablecloth, etc., and do not place on top of other equipment.

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FAQs,

Specifications

_			TC-L32S1	TC-L37S1	
Power Source		AC 110-127 V, 60 Hz			
Power Consumption	Maximum Standby condition	123 W 0.2 W		151 W 0.2 W	
D.	Aspect Ratio	16:9			
spla	Visible screen size	32" class (31.5 ii	nches measured diagonally)	37" class (37.0 inches measured diagonally)	
Display pane	(W × H × Diagonal)			32.2 " × 18.1 " × 37.0 " (819 mm × 460 mm × 940 mm)	
0	(No. of pixels)	2,073,600 (1,920	$0 \text{ (W)} \times 1,080 \text{(H)})$ [5,760) × 1,080 dots]	
တ	Speaker	1-way 2 speaker	rs slim under SP System		
Sound	Audio Output	20 W [10 W + 10) W] (10 % THD)		
<u> </u>	Headphones	M3 (3.5 mm) Jac	ck × 1		
PC s	signals	Horizontal scanr	GA, WXGA, SXGA ning frequency 31 - 69 kHz g frequency 59 - 86 Hz		
Channel Capability- ATSC/NTSC (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135			
Ope	rating Conditions	Temperature: $32 \text{ °F} - 95 \text{ °F} (0 \text{ °C} - 35 \text{ °C})$ Humidity: $20 \text{ %} - 80 \text{ % RH (non-condensing)}$			
	VIDEO IN 1	VIDEO: AUDIO L - R:	RCA PIN Type × 1 1.0 V[p-p] (75 Ω) RCA PIN Type × 2 0.5 V [rms]		
Conr	VIDEO IN 2	VIDEO: S VIDEO: AUDIO L - R:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω) Mini DIN 4-pin Y: 1.0 V[p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω) RCA PIN Type × 2 0.5 V [rms]		
Connection Terminals	COMPONENT IN	Y: Pв, Pr: AUDIO L-R:	s, Pr.: ±0.35 V [p-p]		
Termir	HDMI 1-3	TYPE A Connector × 3 ■ This TV supports "HDAVI Control 4" function.			
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 × 1			
	DIGITAL AUDIO OUT	PCM / Dolby Dig	jital, Fiber Optic		
	TURES	3D Y/C Digital Comb Filter, CLOSED CAPTION, V-Chip HDMI (HDAVI Control 4) Vesa compatible, Photo viewer			
Dimensions (W×H×D)	Including TV stand	31.5 " × 21.7 " × (798 mm × 551 ı		36.1 " × 24.5 " × 11.3 " (915 mm × 620 mm × 287 mm)	
isions 1 × D)	TV Set only	31.5 " × 20.2 " × (798 mm × 511 r		36.1 " × 22.8 " × 3.9 " (915 mm × 577 mm × 97 mm)	
Mass	Including TV stand	29.3 lb. (13.3 kg)) NET	37.0 lb. (16.8 kg) NET	
SS	TV Set only	25.6 lb. (11.6 kg) NET		32.0 lb. (14.5 kg) NET	



Note

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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 Televisions 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 ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

	LCD TV CATEGORIES	PARTS	LABOR	SERVICE
	Up to 37' (diagonal)	1 (ONE) YEAR	1 (ONE) YEAR	Carry-In
Γ	42" (diagonal) and larger	I (ONE) TEAR	I (ONE) TEAR	On-Site

During the "Labor" warranty period there will be no charge for labor. During the "Parts" 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 warranty only applies to products purchased and serviced in the United States or Puerto Rico. This 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 warranty service.

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

This 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 LCD panel resulting from viewing fixed images (including, among other things, non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The 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 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 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 warranty lasts, so the exclusions may not apply to you.

This 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 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.

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

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

Customer Services Directory (United States and Puerto Rico)

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases (United States and Puerto Rico)

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

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.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

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.

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.

In-home service requires clear, complete and easy access to the product by the Authorized Servicentre 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 Servicentre and in no event will Panasonic Canada Inc. or the Servicentre be liable for any special, indirect or consequential damages.

WARRANTY SERVICE

For product operation and information assistance, please contact:

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