

Model No. Número de modelo TC-L42U25

Operating Instructions 42" Class 1080p LCD HDTV (42.0 inches measured diagonally)

Manual de instrucciones

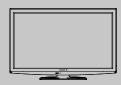
Televisión de alta definición de 1080p y clase 42" de LCD (42.0 pulgadas medidas diagonalmente)

VIEſA

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

For assistance (Canada), please call: **1-866-330-0014** or visit us at www.vieraconcierge.ca

Para solicitar ayuda (EE.UU./Puerto Rico), llame al: 1-877-95-VIERA (958-4372) ó visítenos en www.panasonic.com/contactinfo



Quick Start Guide > See page 7-14



English

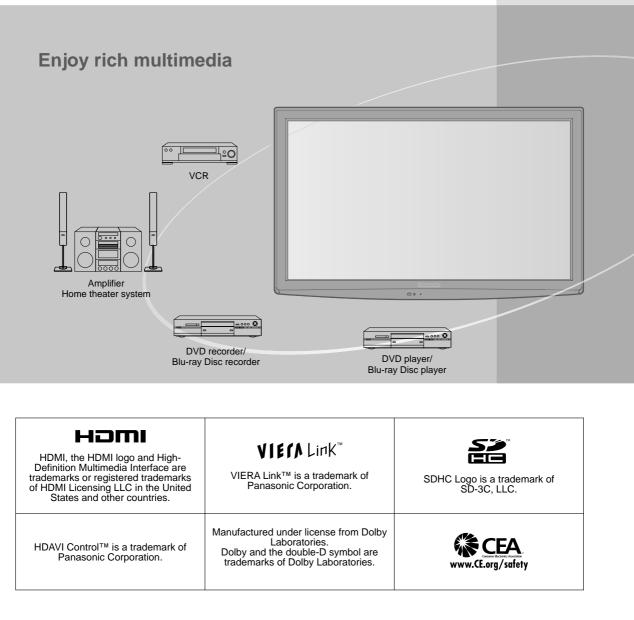
Thank you for purchasing this Panasonic product. Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.

Español

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



Experience an amazing level of multimedia excitement



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SD memory card

Personal computer

Camcorder

:00

Set Top Box

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

FAQs, etc.

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FAQs, etc.

Safety Precautions







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

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

WARNING: To reduce the risk of 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

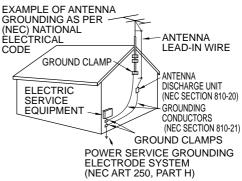
Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the LCD TV and to protect it from overheating. These openings must not be blocked or covered. There should be at least 10 cm of space from these openings. The openings should never 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.
- 3) 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.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power
- company. 16) Follow all warnings and instructions marked on the LCD TV.
- 17) Never push objects of any kind into this LCD TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the LCD TV.
- 18) If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 19) An outside antenna system should not be located in the vicinity of overhead power lines, other electric light, power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 20) Unplug this LCD TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the LCD TV.
 - c. If the LCD TV has been exposed to rain or water.
 - d. If the LCD TV does not operate normally by following the operating instructions.

Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD TV to normal operation.

- e. If the LCD TV has been dropped or the cabinet has been damaged.
- f. 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: The Power switch on this unit will not completely shut off all power from AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).
- 25) 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.
- 26) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 27) CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 28) 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.

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-L42U25

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

Safety Precautions (Continued)



AWARNING

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

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

TUNE INTO SAFETY:

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

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

This product incorporates the following software:

(1) software developed independently by or for Panasonic Corporation,

- (2) software owned by a third party and licensed to Panasonic Corporation,
- (3) software licensed under the GNU General Public License, Version 2 (GPL v2),
- (4) software licensed under the GNU LESSER General Public License (LGPL) and/or,
- (5) open source software other than software licensed under the GPL and/or LGPL

For the software categorized as (3) or (4), please refer to the terms and conditions of GPL v2 and LGPL, as the case may be. at http://www.gnu.org/licenses/old-licenses/gpl-2.0.html and

http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html In addition, software categorized as (3) or (4) is copyrighted by several individuals and/or entities. Please refer to the copyright notice of those individuals at http://www.am-linux.jp/dl/DTV10UT/.

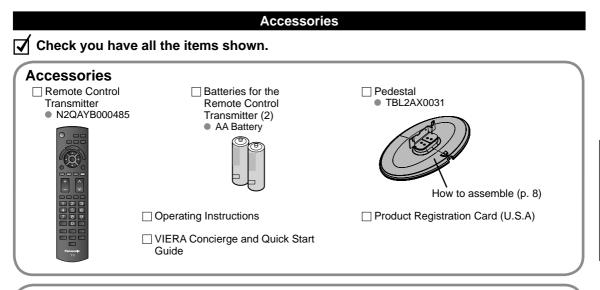
GPL/LGPL SOFTWARE IS DISTRIBUTED IN THE HOPE THAT IT WILL BE USEFUL, BUT WITHOUT ANY WARRANTY, EXPRESS, IMPLIED OR STATUTORY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

For at least three (3) years from delivery of products, Panasonic will give to anyone who contacts us at the address provided below, for a charge of no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL v2/LGPL. Contact Information

cdrequest@am-linux.jp

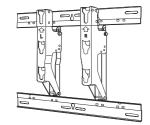
Source code is also freely available to you and any other member of the public via our website below. http://www.am-linux.jp/dl/DTV10UT/

Accessories/Optional Accessory

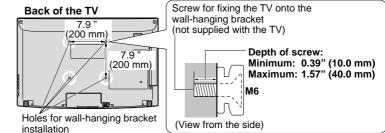


Optional Accessory

Wall-hanging bracket ● TY-WK3L2RW

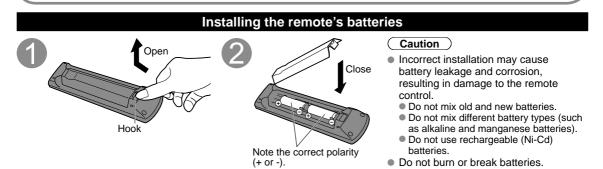


Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.



WARNING

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

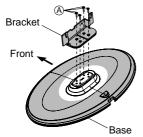


Accessories/Optional Accessory (Continued)

Attaching the pedestal to TV

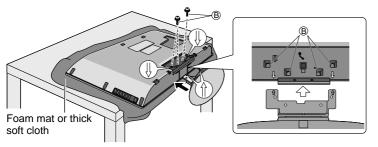
Assembling the pedestal

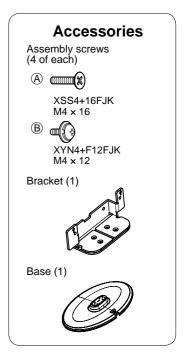
- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



■Set-up

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





WARNING

Do not disassemble or modify the pedestal.

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

Caution

Do not use any 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.

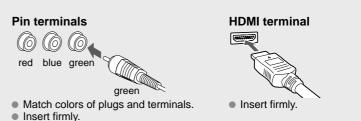
During set-up, make sure that all screws are securely tightened.

 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.

Reference of connection

Antenna terminal



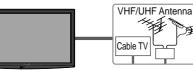


Basic Connection

Example

Connecting Antenna (To watch TV)

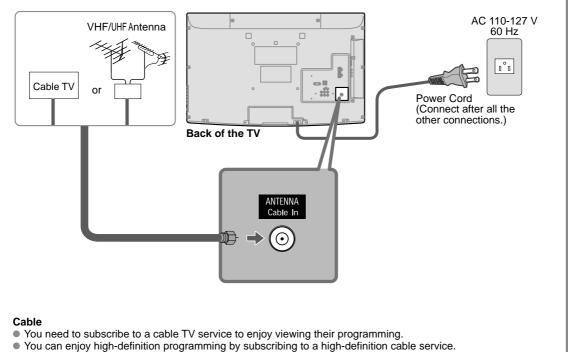
тν



VHF/UHF Antenna

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

To connect the antenna terminal



- The connection for high-definition can be done with the use of an HDMI or Component Video cable. (p. 10)
- To view high-definition programming select the correct video input. (p. 20)
- To view high-definition programming select the correct video input. (p. 20

Note

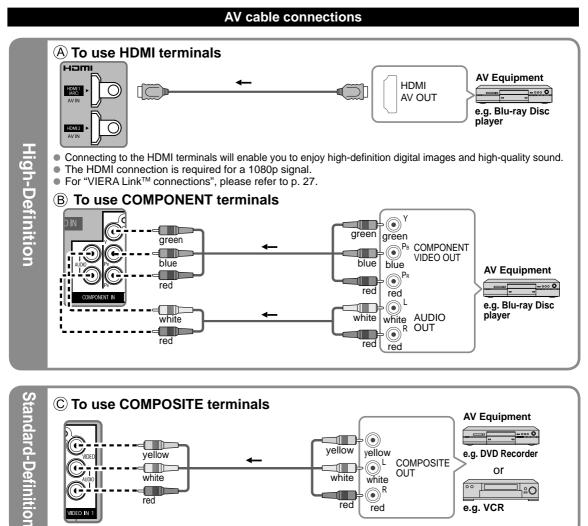
- Not all cables and external equipment shown in this book are supplied with the TV.
- For more details on the external equipment's connections, please refer to the operating manuals for the equipment.
- For additional assistance, visit us at: www.panasonic.com

www.panasonic.ca

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Basic Connection (Continued)

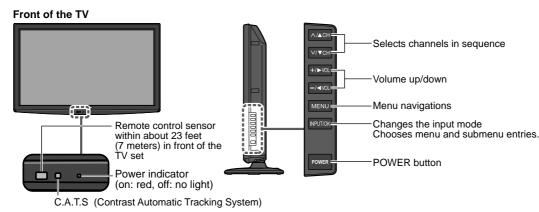




• For more details on the external equipment's connections, please refer to the operating manual for the equipment.

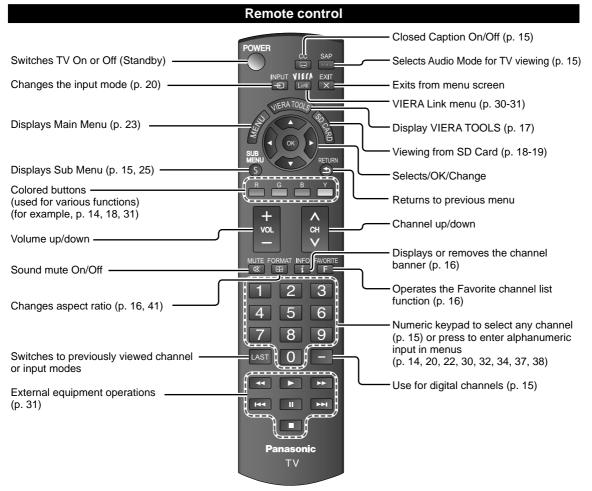
Identifying Controls

TV controls/indicators



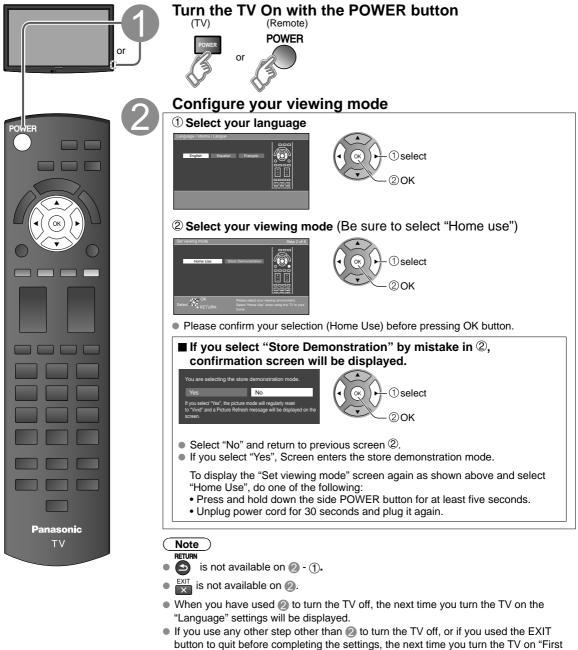
Note

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



First Time Setup

First time setup screen is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 25) is set to "No".



- time setup" will not be automatically displayed. • The settings up to that point are saved.
- You can reset the settings using "First time setup". (p. 25)
- To change the setting (Language, ANT/Cable setup, Input labels, Clock) later, go to the Menu screen (p. 25)



Press to return to the previous screen RETURN

Auto channel setup (ANT/Cable setup) ① Select the connected Antenna in terminal



or → ①select ▼ ②OK Not used: Go to 4 (Label inputs)

Select "Not used" when no wire is connected to the "Antenna/Cable" terminal. • Typical when a Cable/Satellite box is connected to a TV input.

Prevents accidental tuning to an unavailable signal.

8%

10

0

2 Select "Start"

Auto program Progress



Start scanning the channels (Available channels are automatically set.)

er of analog channels

nber of digital channels

Press RETURN to quit

(R) (P) (1) select (2) OK

Skip: Go to 4 (Label inputs)

③ Complete the Auto program setup

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



OK OK

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

Operation of the EXIT button during "First time setup" Press the button once to display confirmation screen. Press again to close confirmation screen.

[EXIT confirmation screen]

Yes No To repeat the First Time Setup, select "First time setup" in the Setup Menu. Yes ➡ Exit "First time setup" No ➡ Return to the original screen.

First Time Setup (Continued)



Select the Input labels (Label inputs)

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





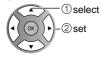
Follow the instructions on screen to complete the following operations.

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

Adjust the Clock (Set clock)

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







Follow the instructions on screen to complete the following operations.

Complete the First time setup

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



Note

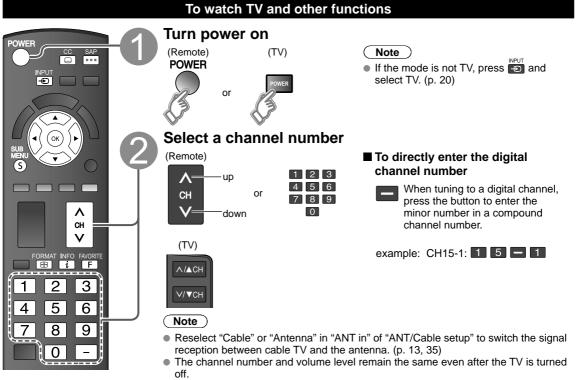
 About broadcasting systems

Analog (NTSC):

Conventional broadcasting Digital (ATSC): New programming that allows you to view more channels featuring high-quality video and sound

Watching TV

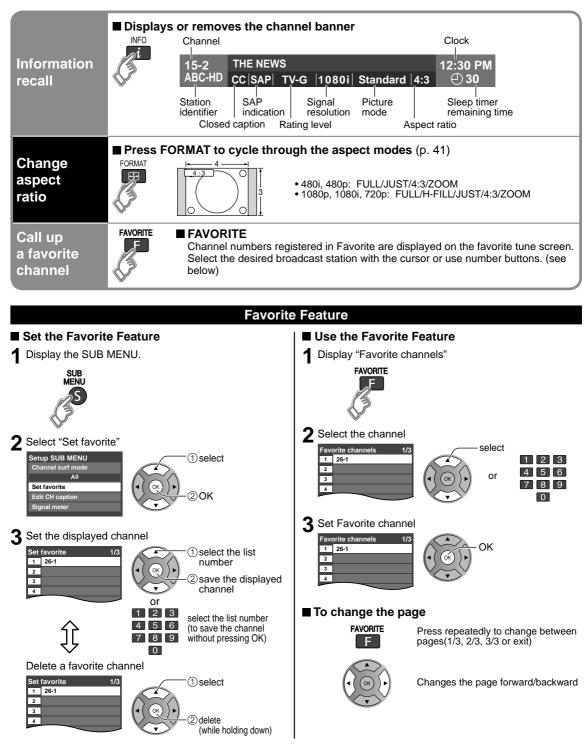
Basic connection (p. 9-10)



■ Other Useful Functions (Operate after ②)

Listen with SAP (Secondary Audio Program)	 Select Audio mode for watching TV Digital mode Press SAP to select next Audio track (if available) when receiving a digital channel. Audio track 1 of 2 (English) Analog mode Press SAP to select the desired Audio mode. Each press of SAP will change the Audio mode. (Stereo/SAP/Mono)
Closed caption	Switches the Closed caption mode On or Off $\begin{array}{c} CC\\ \hline \\ \hline \\$
Display the SUB MENU	Press SUB MENU to show the Sub menu screen (p. 25) This menu consists of shortcuts to convenient functions. SUB SUB MENU Channel surf mode All Set favorite Edit CH caption Signal meter

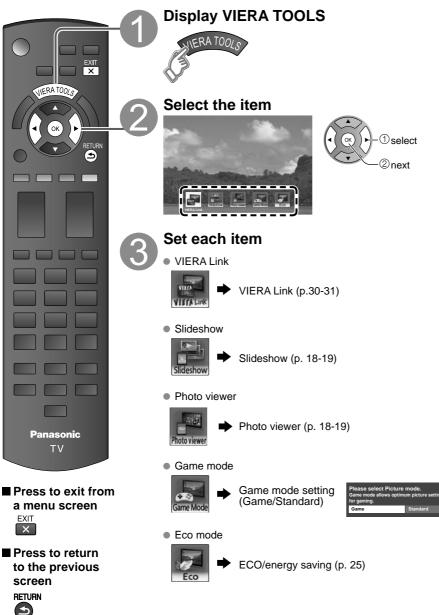
Watching TV (Continued)



Using VIERA TOOLS

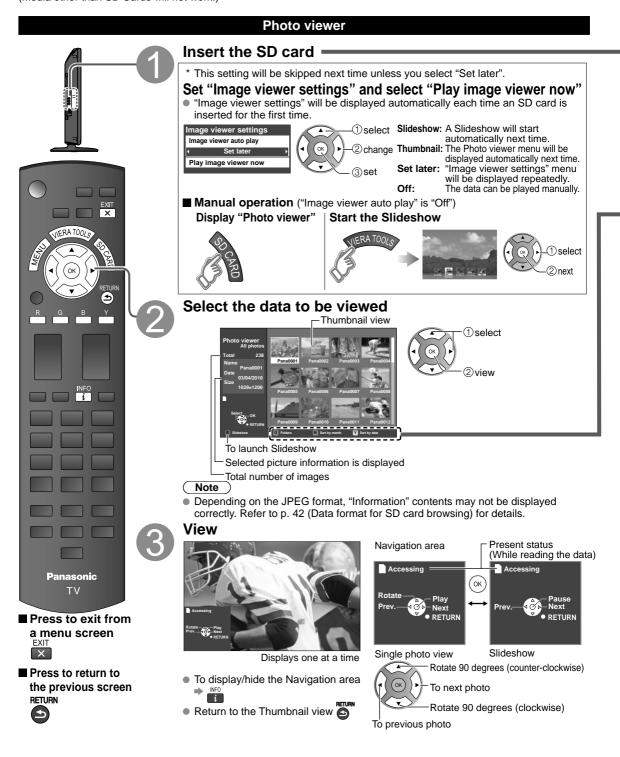
VIERA TOOLS is the easy way to access frequently-used menu items. They are displayed as shortcut icons on the TV screen.

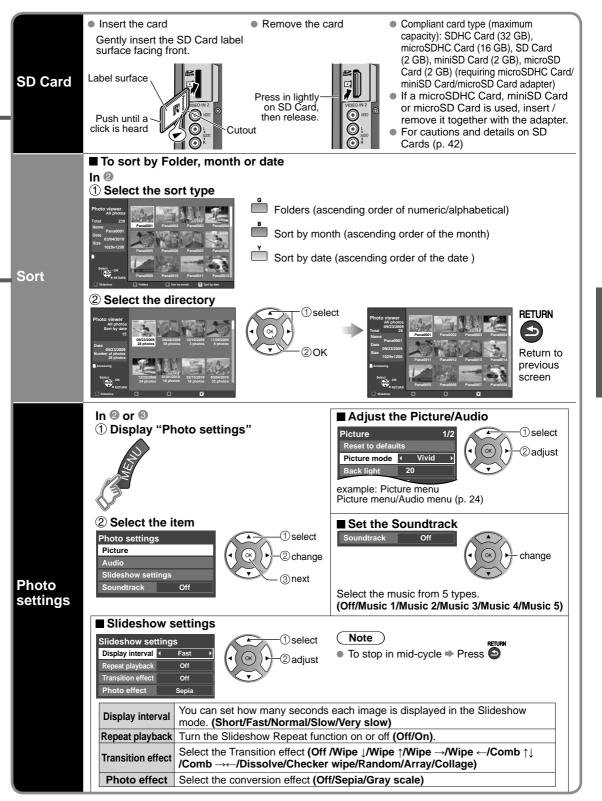
Unlike a conventional menu, you can enjoy using, playing or setting a function quickly.



Viewing with VIERA IMAGE VIEWER

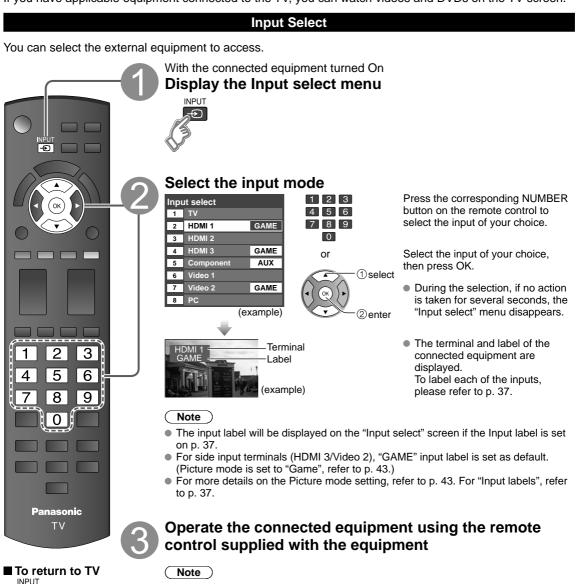
The VIERA Image Viewer is a function that lets you easily view still images on a VIERA television by simply inserting an SD card into the VIERA SD card slot. (Media other than SD Cards will not work.)



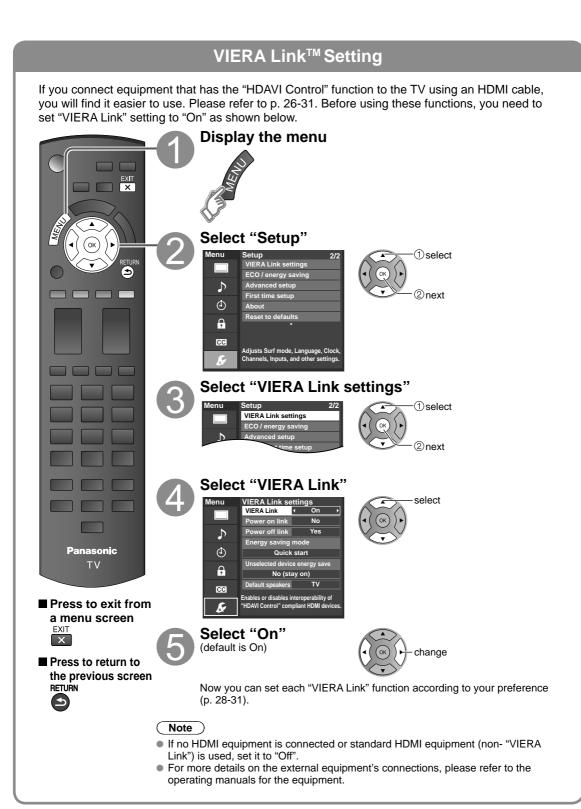


Watching Videos and DVDs

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

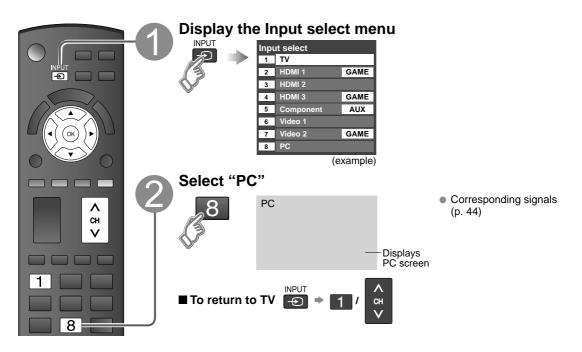


• For details, see the manual for the connected equipment.



Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 39)



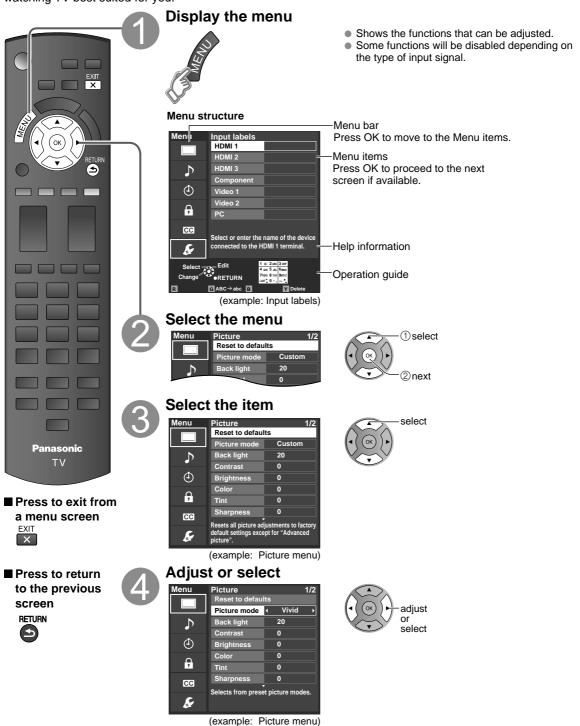
PC menu setting (change as desired)

● Making settings ➡ "How to Use Menu Functions" ① to ④ (p. 23)

Menu	lte	m	Adjustments/Configurations (options)			
		Reset to defaults	Resets PC adjustments. Confirmation screen is displayed. Select "Yes" and press OK to reset.			
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 45) On green: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 45) 			
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.			
		H-position	Adjusts the horizontal position.			
Picture	PC adjustments	V-position	Adjusts the vertical position.			
ıre		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.			
		Clock pridec	Note It may not be possible to display a clear picture due to poor input signals.			
		Input resolution	Switches to wide display. Input signal switched from 640×480 to 852×480 Input signal switched from 1024×768 to 1280×768 or 1366×768			
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz			

How to Use Menu Functions

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



How to Use Menu Functions

Menu list

Monu		ltom	Adjustmente/Configurations (alternatives)		
Menu Item			Adjustments/Configurations (alternatives)		
	Reset to defaults*		Resets all picture adjustments to factory default settings except for "Advanced picture".		
	Picture mode		Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 43)		
	Back light		Adjusts the luminance of the back light.		
	Contrast, Brightness, Color, Tint, Sharpness		Adjusts color, brightness, etc. for each picture mode to suit your taste Display range Contrast/Brightness/Color/Sharpness:0 - 100 Tint: -50 - +50 		
	Color	temp.	Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool/Normal/Warm)		
	A.I. picture		Controls dark areas without affecting the black level or brightness in the overall picture (Off/On)		
	C.A.T	.s.	Adjusts the brightness and gradation according to the ambient lighting condition. (Off/On)		
	Video	NR	Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On)		
	As	Screen format	Changes the format (aspect ratio). (FULL/H-FILL/JUST/4:3/ZOOM) Lets you choose the aspect depending on the format of received signal. (p. 41)		
Picture	Aspect adjustments	HD size	 Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95 % Size 2: Selected item for "HD size". Scanning 100 % 		
	tmen	H size	Adjusts the horizontal display range to reduce noise of both side edges of an image. (Size 1/Size 2) Size 2: Adjusts the image size according to the aspect mode for to reduce noise. (p. 44)		
	ts	Zoom adjustments	Adjusts vertical alignment and size when aspect setting is "ZOOM"		
	PC adjustments		Sets PC display (p. 22)		
		3D Y/C filter	Minimizes noise and cross-color in the picture. (Off/On)		
	Advanced picture	Color matrix	 Selects image resolution of component-connected devices (SD/HD) SD: Standard Definition HD: High Definition Only used with 480p video signal. 		
	ed pic	MPEG NR	Reduces noise of specific digital signals of DVD, STB, etc. (Off/On)		
		Motion Picture Pro 4	Improved moving picture quality by reducing motion blur. (Off/Weak/Strong)		
	tur	Black level	Selects Dark or Light. Valid only for external input signals. (Dark/Light)		
	æ	3:2 pulldown	Adjusts the picture recorded in 24 fps for optimum quality. (Off/On/Auto)		
	Reset to defaults*		Resets Bass, Treble, and Balance adjustments to factory default settings.		
	Bass		Increases or decreases the bass response.		
	Treble	e	Increases or decreases the treble response.		
	Balan	ice	Emphasizes the left / right speaker volume.		
Au	⊳	Surround	Enhances audio response when listening to stereo. (Off/On)		
di	dva	Volume leveler	Minimizes volume disparity after switching to external inputs.		
0	Advanced	TV speakers	Switches to "Off" when using external speakers (Off/On) • "Surround" and "Volume leveler" do not work if "Off" is selected.		
	HDMI 1 in HDMI 2 in HDMI 3 in		The default setting is "Digital" for the HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component/Video 1/Video 2)		
Timer	Sleep	, Timer 1-5	The TV can automatically turn On/Off at the designated date and time		
Lock	· ·		Locks the channels and programs. (p. 32)		
Cosed caption		ed caption	Displays subtitles (Closed caption). (p. 36)		

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

(Continued)

Menu list

Menu		Item	Adjustments/Configurations (alternatives)
	Channel surf mode		Sets the mode to select the channel with the Channel up/down button. (All/Favorite/Digital only/Analog only) • Favorite: Only channels registered as FAVORITE. (p. 16)
	Language		Selects the screen menu language.
	Clock		Adjusts the clock. (p. 14)
		/Cable setup	Sets channels. (p. 13)
	Input labels		Selects the terminal and label of the external equipment. (p. 37)
	١٧	VIERA Link	 Controls the equipment connected to HDMI terminals (Off/On) (p. 28) "Power off link", "Power on link", "Energy saving mode", "Unselected device energy save" and "Default speakers" cannot be selected if "Off" is set.
	R	Power on link	Sets "Power on link" of the HDMI connected equipment (No/Yes) (p. 28)
		Power off link	Sets "Power off link" of the HDMI connected equipment (No/Yes) (p. 28)
	ink se	Energy saving mode	Sets "Energy saving mode" of the HDMI connected equipment. (Quick start/Save) (p. 28)
	VIERA Link settings	Unselected device energy save	Sets "Unselected device energy save" of the HDMI connected equipment. (p. 28) (No (stay on)/Yes (with prompt)/Yes (no prompt))
		Default speakers	Selects the default speakers (TV/Theater) (p. 28)
(0	ECO/energy saving	Power save	Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. (Standard/Saving)
Setup		No signal for 10 minutes	 To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION continue for more than 10 minutes. (Stay on/Power TV off) Note Not in use when "Auto power on", "On/Off Timer" or "Lock" is set, or while "SD mode" or "Digital Channel" is selected. "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No signal for 10 minutes". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
		No activity for 3 hours	To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. (Stay on/Power TV off) Note • Not in use when "Auto power on" or "On/Off Timer" is set, or while "PC input" is selected. • "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No activity for 3 hours". • The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
	Advanced setup	Auto power on	Turns TV On automatically when the cable box or a connected device is turned On (No/Yes) TV AC 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. 38)
	Sed	Image viewer auto play	Set "Thumbnail" or "Slideshow" to play back SD cards automatically. (Slideshow/Thumbnail/Set later/Off)
	First	time setup	Restart first time setup from "Language" setting. (p. 12)
	Abo	ut	Displays TV version and software license.
	Res	et to defaults	Performing Reset will clear all items set with Setup, such as channel settings.
			• • • • • • • • • • • • • • • • • • • •

Sub menu list

Menu Item		Adjustments/Configurations (alternatives)	
Setup SUB MEN	Channel surf mode	Sets the mode to select the channel with Channel up/down button. (All/Favorite/Digital only/Analog only)	
S et	Set favorite	Sets favorite channels. (p. 16)	
	Edit CH caption	Changes the station identifier. (p. 35)	
	Signal meter	Checks the signal strength if interference or freezing occurs on a digital image.	

VIERA Link[™] "HDAVI Control[™]"*

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

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

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

Version	Operations
HDAVI Control or later	 Automatic Input Switching (p. 29) Power on link (p. 29) Power off link (p. 29) Default speakers (p. 29) One-touch theater playback (p. 29) Speaker control (p. 31)
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control (p. 31) Unselected device energy save (for available equipment only) (p. 29)
HDAVI Control 3 or later	 Provides setting information (p. 29) Automatic lip-sync function (p. 29)
HDAVI Control 4 or later	 Energy saving mode (with Quick Start mode) (p. 29)
HDAVI Control 5	 Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable.

■ For the first time/When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1, HDMI2 or HDMI3 (p. 20), and make sure that the image is displayed correctly.

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

HDMI cable

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

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

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

Refer to page 28-31 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

Note

• HDMI 1 is recommended.

When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 20) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 28-31).

- Connecting this unit to the DVD recorder (DIGA), Home theater system
- For DVD recorder (DIGA): Connect with HDMI cable

For Home theater system

Connect with the HDMI and audio cables. If audio cable is not connected, you cannot listen to the TV program through the theater system.

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

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

If connection (or setting) of equipment compatible with

HDAVI control is changed, switch the power of this unit

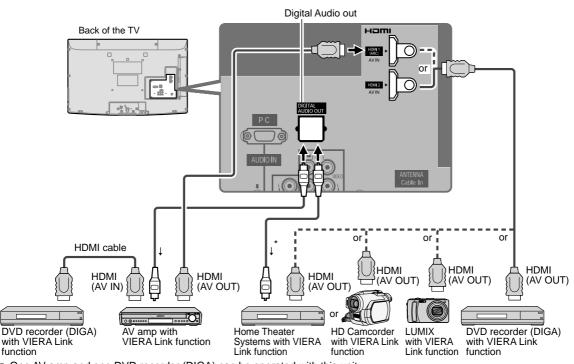
(so that the unit can correctly recognize the connected

theater system playback operate.

Off and On again while the power of all equipment is On

equipment) and check that the DVD recorder (DIGA), Home

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

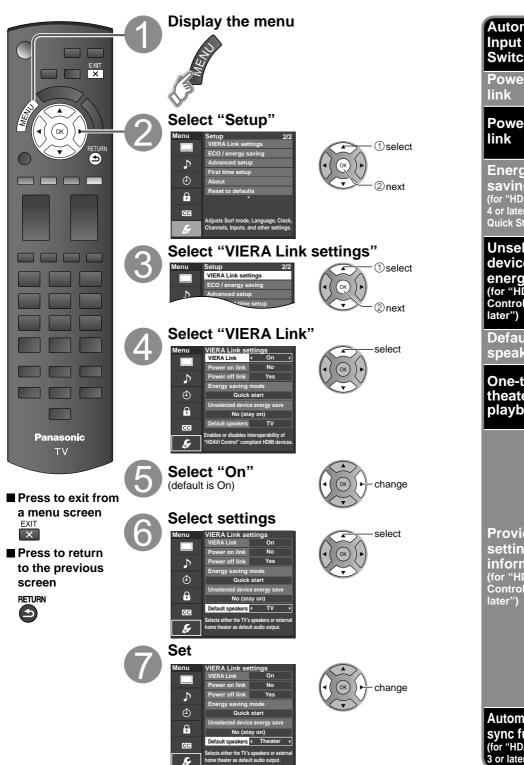
After making connections as shown above, set "VIERA Link" (under "VIERA Link settings") to "On" using the Setup menu. (p. 21, 28-29).

Note

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

Advancec

VIERA Link[™] "HDAVI Control[™]"*



Automatic Switching

Power on

Power off

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

Unselected device energy save (for "HDAVI Control 2 or

Default speakers

One-touch theater playback

Provides setting information (for "HDAVI Control 3 or

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

Advanced

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

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

When "Yes" is selected (p. 25), TV is turned on automatically and switches to the appropriate HDMI input whenever a VIERA Link compatible equipment is initially turned on and the Play mode is selected.

When "Yes" is selected (p. 25) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

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

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

Condition

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

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

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

* Minimum power consumption of standby condition for the equipment.

Condition

Unselected device energy save: Yes

The equipment has "HDAVI Control 2 or later" (for available equipment only) connected with an HDMI cable. [Examples of timing for operation]

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

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

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

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

① Home theater power switches On, and playback begins.

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

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

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

Transmittable data	Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)	0	0	0
② Panel Aspect Ratio (16:9 fixed)	0	0	0
③ Closed caption information (Mode/CC type/Digital setting)	0		
④ Channel information (Input signal/Channel list/Caption information)	0		

Note

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

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

[For Recorder]

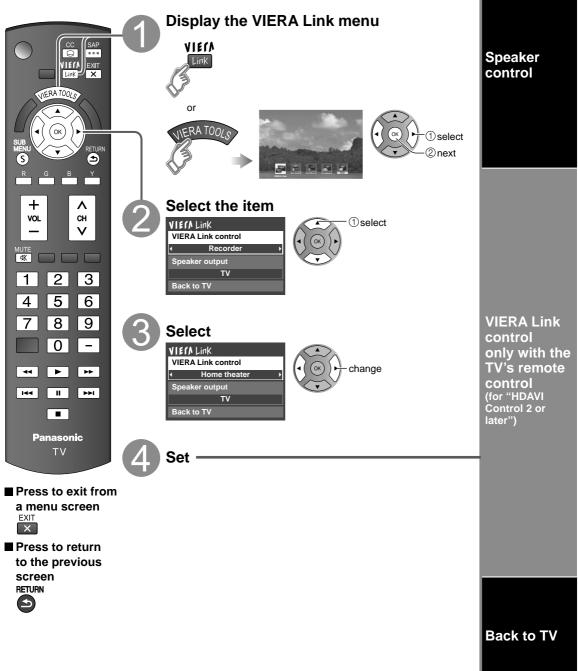
• You cannot operate other functions while transmitting the TV's information above except the Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ⁽⁴⁾ Channel information).

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" menu.

For more details on the "HDAVI Control" function, refer to p. 26



You can select the Home theater or TV speakers for audio **Home theater:** Adjustment for the equipment output.

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

Select "Speaker output" Select "Home theater" or "TV"



Notice theater. Adjustment for the equipment
Volume up / down >
Mute >
Mute >
The sound of the TV is muted.
When the equipment is turned off, the TV speakers take over.
Selecting "Home theater" turns the equipment on automatically if it is in Standby mode.

TV: The TV speakers are on.

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

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



1 select

You can select available items only.

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

Note

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

Available TV remote control buttons

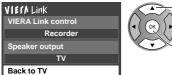
Whether an operation is available differs depending on the connected equipment.

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

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

select

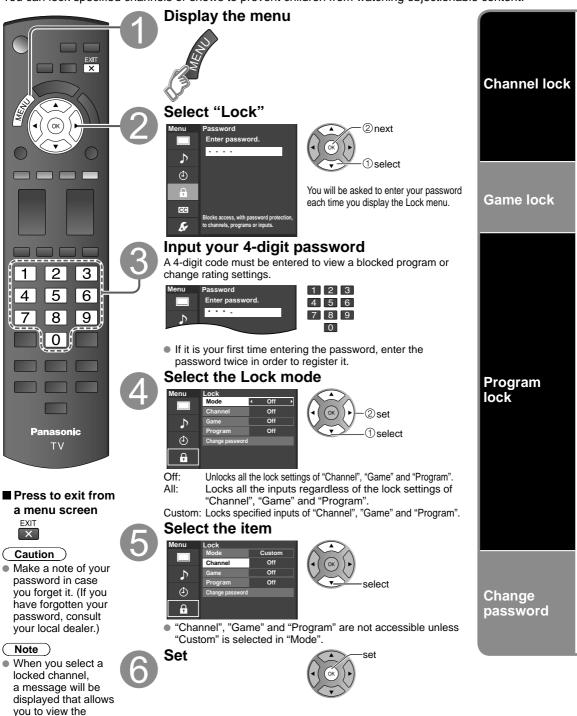
Select "Back to TV"





Lock

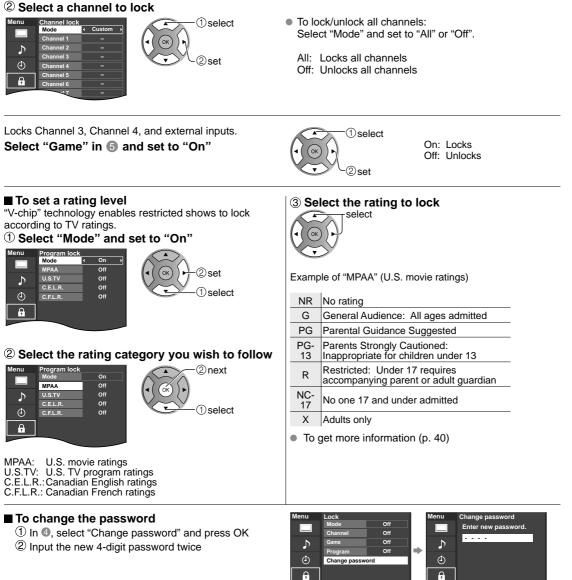
You can lock specified channels or shows to prevent children from watching objectionable content.



channel if you input your password.

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

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



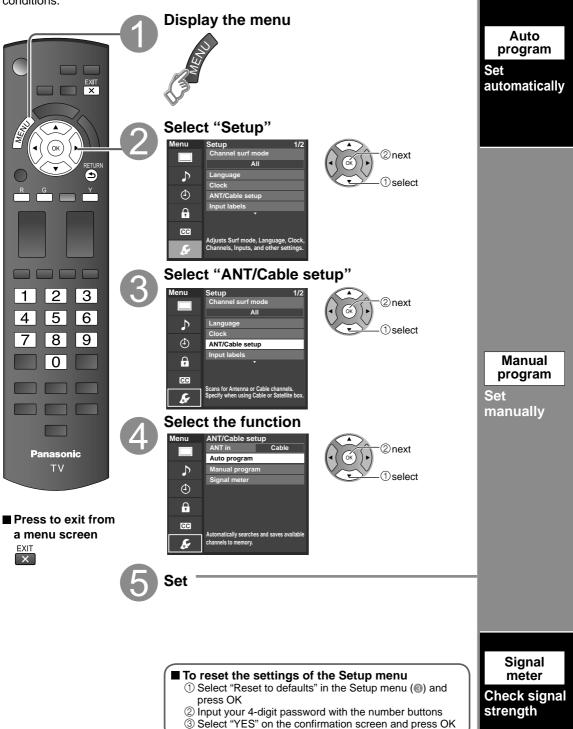
Note

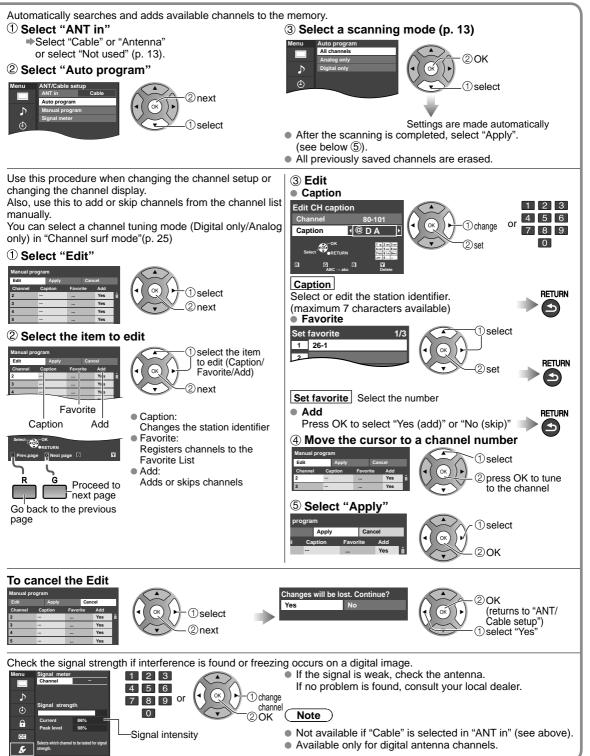
- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also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

Advanced

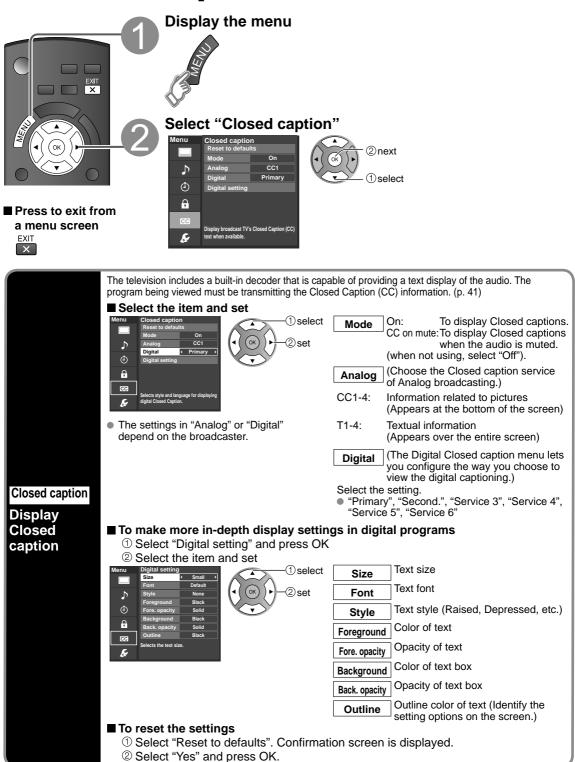
Editing and Setting Channels

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

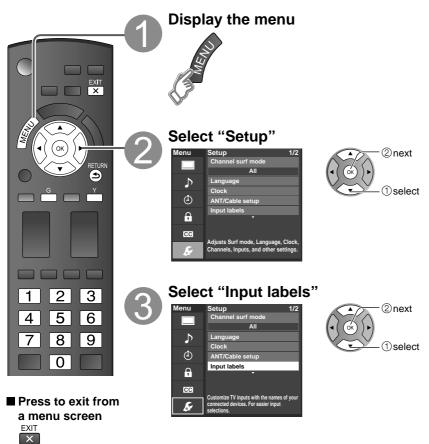


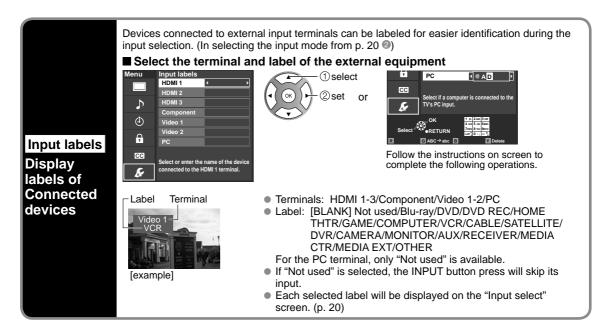


Closed Caption



Input Labels

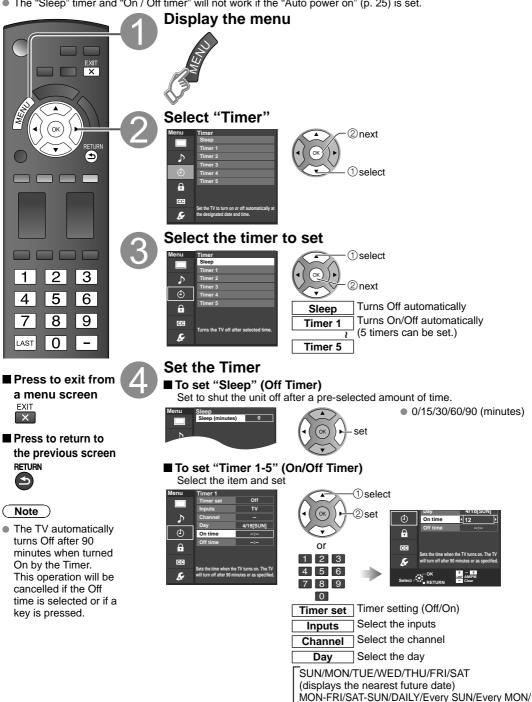




Using Timer

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. 14)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 25) is set.



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

www.panasonic.ca Back of the TV AC 110-127 V 60 Hz AC Cord (Connect after all the Cable TV other connections are complete.) or Cable Box 0°0 <u>∎₹</u>1 Connect with нат (A) or (B) HDML1 (ARC) or HDW 2 AUDIO IN Cable In 0)• G I I or Ë RGB PC or Optical cable digital audio căble DVD Recorder/ VCR 1 Ê 1 Audio -Conversion Audio (A) HDMI cable adapter cable cable (if necessary) B HDMI-DVI -Conversion I PC cable + Audio cable* To watch or camcorder images OPTICAL Camcorder IN To watch DVDs VCR DVD Player DVD Player/ Amplifier (For HDMI Blu-ray Disc player/ Set Top Box connection, HDMI compatible equipment only. 0 For connection using an HDMI-DVI To listen to the TV Conversion cable through speakers see HDMI 1 or HDMI 2 connection on this page.)

* Please see p. 24 for the setup when using an external analog audio cable with an HDMI to DVI cable.

Advanced

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 33)

U.S. MOVIE RATINGS (MPAA)

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

■ U.S. TV PROGRAMS RATINGS (U.S. TV)

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

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

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

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

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

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

Caution

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

Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

Technical Information

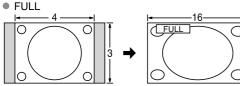
Closed caption (CC)

- 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.

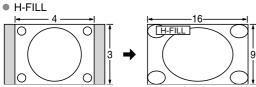
Aspect Ratio (FORMAT)

Press the FORMAT button to cvcle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 16)

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

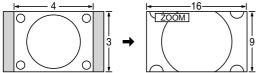


Enlarges the 4:3 image horizontally to the screen's side edges. Stretches to justify the 4:3 image to the four corners of the (Recommended for anamorphic picture)



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

ZOOM



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

Zoom adjustments

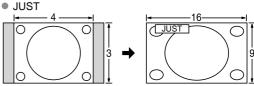
Vertical image position and size can be adjusted in "ZOOM".

- ① Select "Zoom adjustments" on the "Picture" menu. (p. 24) ③ V-size: Vertical size adjustment
- 2 V-position: Vertical position adjustment



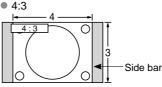


To reset the aspect ratio



screen

(Recommended for normal TV broadcast)



Standard

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

Note

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





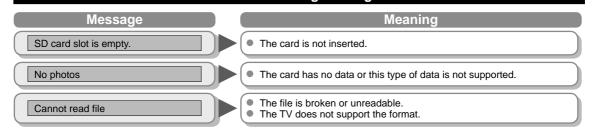


Technical Information (Continued)

		Data format for SD Card browsing
Pho	oto:	Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards
Dat	a format:	Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)
Max	x. number of files:	9,999
	ge resolution:	160 x 120 to 20,000,000
*	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	
• F	Partly degraded files might be	displayed at a reduced resolution.
(Note	
• F	Folder structure viewed in PC	
	DCIM	-Created automatically
	– P1000001.JPG – P1000002.JPG – P1000003.JPG – P1000004.JPG –	 4-digit arbitrary characters + 4-digit file number Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
		y be different depending on the digital camera used.
		Cards, please confirm the latest information on the following website. abal/cs (This site is in English only)
		Cautions in handling SD Card:
• [• [• [•] •] •]	Do not remove the card while Do not touch the terminals on Do not subject the card to hig nsert the card in the correct of Electrical interference, static e Back up the recorded data at	

SD Card warning messages

24 mm



VIERA Link[™] "HDAVI Control[™]"

HDMI connections to some Panasonic equipment allows you to interface automatically. (p. 26)

- 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 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 5" is the newest standard (current as of December, 2009) for the HDAVI Control compatible equipment.
 This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 24) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device.

(*2): Enquire at your local digital equipment retailer shop.

Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT" or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i, 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 44.

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 games. This mode will be set automatically if "GAME" is selected from the Input label setting (p. 37)
- Custom (Photo): Customizes each item according to your taste. Photo is displayed in JPEG menu.

Note

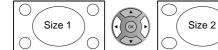
- Picture mode will be automatically set to "Standard" if you change the Input label from "GAME" to other labels.
- Picture mode will be automatically set to "Game" if you change from an Input label other than "GAME" to "GAME" label.

Technical Information (Continued)

H size

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

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



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

See page 24 for more information

Aspect Ratio: 4:3

Size 1

Input signal that can be displayed

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

Size 2

 \Diamond

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

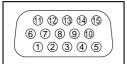
Note

Signals other than above may not be displayed properly.

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

PC Input Terminals Connection

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

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	€	NC (not connected)
2	G	\bigcirc	GND (Ground)	12	NC
3	В	8	GND (Ground)	3	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, lintfree cloth.

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

Cabinet

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

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

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

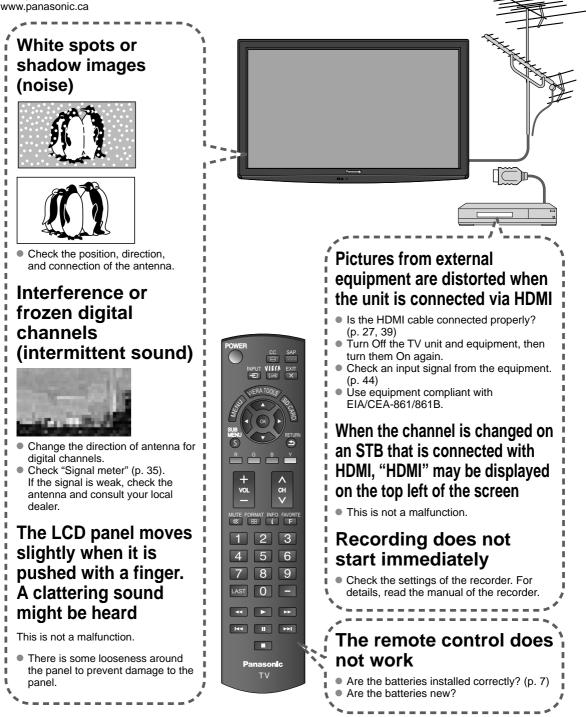
Wipe the plug with a dry cloth at regular intervals. (Moisture and dust can lead to fire or electrical shock.)

FAQ

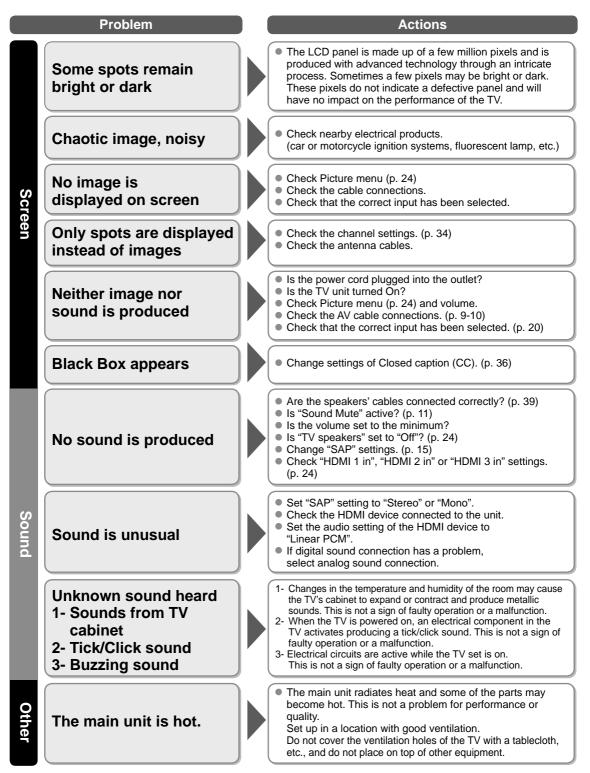
Before requesting service or assistance, please follow these simple guides to resolve the problem.

If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 50, 51)

For additional assistance, please contact us via the website at: www.panasonic.com/contactinfo



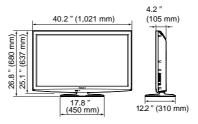
If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).



Specifications

		TC-L42U25							
	er Source	AC 110-127 V, 60 Hz							
Power Consumption	Maximum Standby condition	205 W 0.3 W							
Di	Aspect Ratio	16:9							
spla	Visible screen size	42" class (42.0 inches measured diagonally)							
Display panel	(W × H × Diagonal)	36.6" x 20.6" x 42.0" (930 mm x 523 mm x 1,067 mm)							
lel	(No. of pixels)	2,073,600 (1,920 (W) × 1,080(H)) [5,760 × 1,080 dots]							
Sound	Speaker	1-way 2 speakers slim under SP System							
Ind	Audio Output	20 W [10 W + 10 W] (10 % THD)							
PC s	ignals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz							
	nnel Capability- C/NTSC (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135							
Oper	rating Conditions	Temperature: 32 °F – 95 °F (0 °C – 35 °C) Humidity: 20 % – 80 % RH (non-condensing)							
	VIDEO IN 1-2	VIDEO: RCA PIN Type × 1 1.0 V[p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]							
Connection Terminals	COMPONENT IN	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]							
tion T	HDMI 1-3	TYPE A Connector × 3 This TV supports "HDAVI Control 5" function.							
ermir	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)							
nals	Card slot	SD CARD slot × 1							
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic							
	TURES	3D Y/C FILTER, CLOSED CAPTION, V-Chip, HDAVI Control 5 Vesa compatible, VIERA IMAGE VIEWER							
Dimensions (W × H × D)	Including TV stand	40.2" x 26.8" x 12.2" (1,021 mm x 680 mm x 310 mm)							
isions 1 × D)	TV Set only	40.2" x 25.1" x 4.2" (1,021 mm x 637 mm x 105 mm)							
Mass	Including TV stand	45.2 lb. (20.5 kg) NET							
ssl	TV Set only	39.7 lb. (18.0 kg) NET							

[TC-L42U25]



Note

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

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

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

Panasonic 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, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

LCD TV CATEGORIES	PARTS	LABOR	SERVICE
Up to 42" (diagonal)	1 (ONE) YEAR	1 (ONE) YEAR	Carry-In
46" (diagonal) and larger	T (ONE) FEAR	I (ONE) FEAR	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 TVs, 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.

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

Customer Services Directory (United States and Puerto Rico)

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases (United States and Puerto Rico)

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

http://www.pstc.panasonic.com

or, send your request by E-mail to: **npcparts@us.panasonic.com** You may also contact us directly at: 1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 9 pm, EST.) Panasonic Service and Technology Company 20421 84th Avenue South, Kent, WA 98032 (We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

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

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

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

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

WARRANTY SERVICE

Our Customer Care Centre:

For product operation and information assistance, please contact:

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

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

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

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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 guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los servicios que le ofrece la garantía.

Modelo

Número de serie

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

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