

Model No. TH-32LRU5 TH-37LRU5 TH-42LRU5

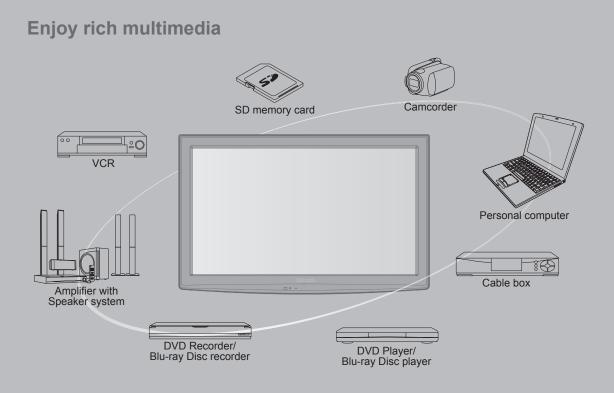
Owner's Manual Hospitality LCD HDTV



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.

Experience an amazing level of multimedia excitement



This product incorporates the following software or technology:

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

(2) the software owned by third party and licensed to Panasonic Corporation,

(3) the software based in part on the work of the Independent JPEG Group,

(4) the software developed by the FreeType Project.

(5) open sourced software other than the software licensed under the GPL and the LGPL.

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



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



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



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

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

Pro:Idiom

Pro: Idiom is a trademark of Zenith Corporation.





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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 4 inches (10 cm) of space around the TV. The openings should never be blocked by placing the LCD TV on a bed, sofa, rug or other similar surface. This LCD TV should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

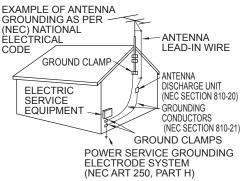
Important Safety Instructions

- 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 follow
 - 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 CHÓKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.

24) WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.
 25) CAUTION: The Power switch on this unit will not completely shut off all power from AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power.



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

- 26) CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- 27) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 28) **CAUTION:** DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 29) CAUTION: This LCD TV is for use only with the following optional accessory. Use with any other type of optional accessories may cause instability which could result in the possibility of injury. (All of the following accessories are manufactured by Panasonic Corporation)
 - Wall-hanging bracket: TY-WK3L2RW
 - Always be sure to ask a qualified technician to carry out set-up.
- NOTE: This equipment is designed to operate in North America and other countries where the broadcasting system and AC house current are exactly the same as in North America.

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. TH-32LRU5, TH-37LRU5, TH-42LRU5

Responsible Party:	Panasonic Corporation of North America Three Panasonic Way, 2F-5, Secaucus, NJ 07094
Contact Source:	Panasonic System Communications Company of North America 1-800-973-4390

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:

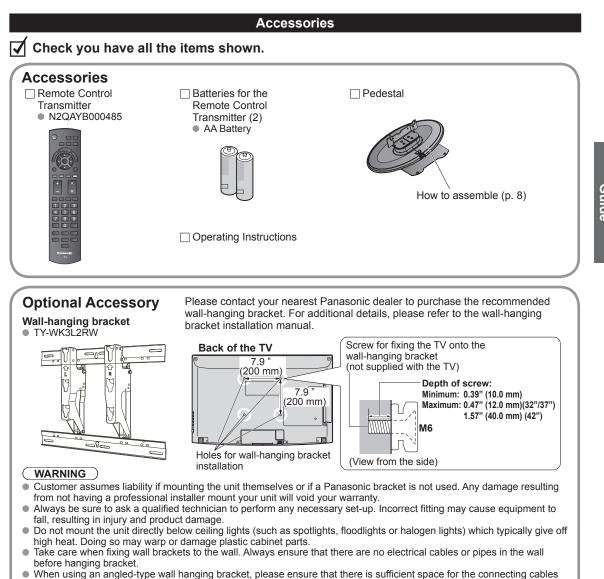
- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use
 of your flat panel display.
- · Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- 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:

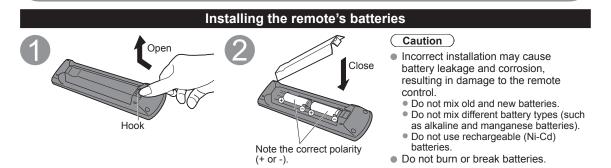
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, 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 media viewing for children younger than two years. For more details, see www.aap.org.

Accessories/Optional Accessory



- 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.



7

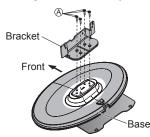
Accessories/Optional Accessory

Accessories/Optional Accessory

Attaching the pedestal to TV

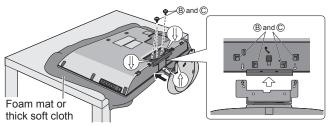
Assembling the pedestal

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



Set-up

- Fix securely with assembly screws C. (Total 4 screws)
 B is used as security screw if necessary.
- 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.

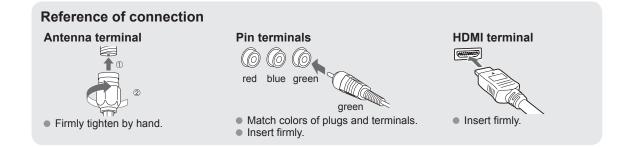
 Otherwise the TV may fall over and become damaged, and personal injury may result.

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.

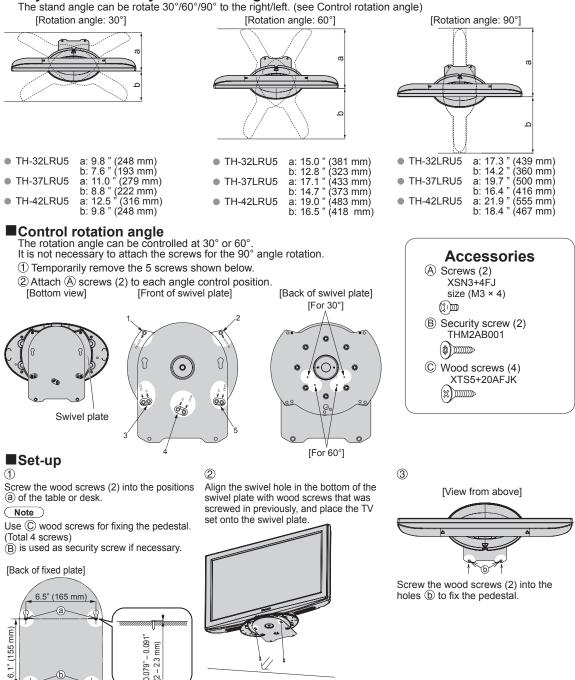


Accessories Assembly screws (A) Screws (4) XSS4+16FJK size (M4 × 16) B Security screw (1) THE2AC004J size (M4 × 12) C Screws (4) XYN4+F12FJK size (M4 \times 12) Bracket (1) TBL4GA3014 (TH-32LRU5) TBL2AA3005 (TH-37LRU5) TBL2AA3006 (TH-42LRU5) Base (1) TBL2AX00501A (TH-32LRU5) TBL2AX00511 (TH-37LRU5) TBL2AX00521 (TH-42LRU5)

Location

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

Adjust the stand to your desired angle.



Slide the TV set forwards until it stops, then fix it in place.

• Place the TV set in a position where it will not protrude from the table when swiveled.

5.7" (144 mm)

• Make sure there is enough space between the TV set and wall, so that when the TV set is swiveled it does not hit the wall.

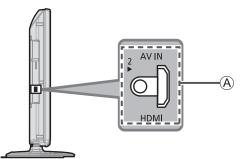
Jick Start

Accessories/Optional Accessory

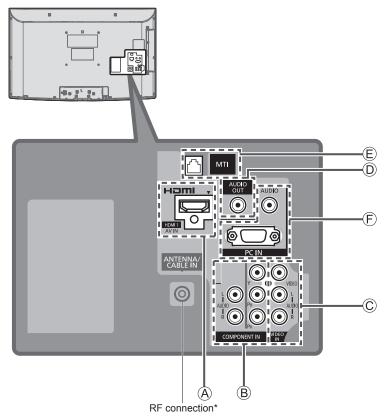
Connections

Connection panel

Side panel



Back panel

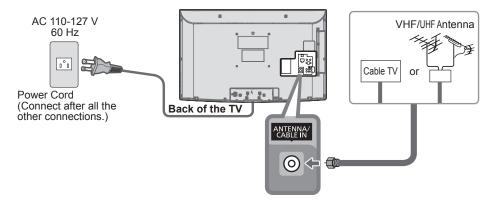


* For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

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.

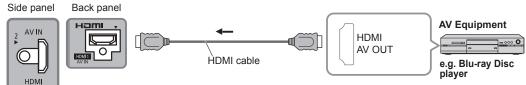


Cable

- You need to subscribe to a cable TV service to enjoy viewing their programming.
- You can enjoy high-definition programming by subscribing to a high-definition cable service.
 The connection for high-definition can be done with the use of HDMI or Component Video cable. (see below)
- To view high-definition programming, select the correct video input. (p. 15)

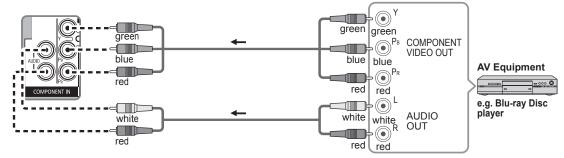
Example of connections

A To use HDMI terminals



- Connecting to the HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound.
- The HDMI connection is required for a 1080p signal.
- VIERA Link connection, please refer to p. 25



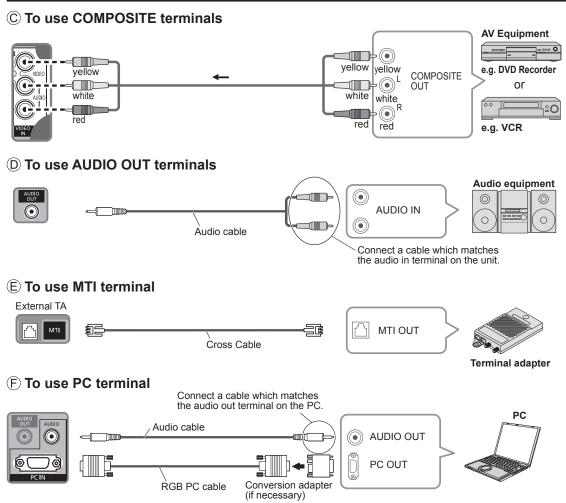


Note

- 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 manual for the equipment.

Connections (Continued)

Example of connections



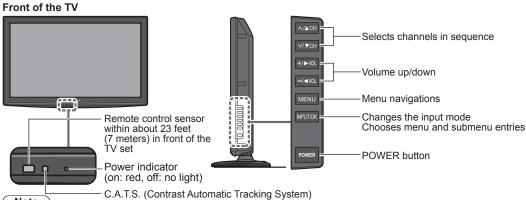
Note

• 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 manual for the equipment.

Identifying Controls

TV controls/indicators



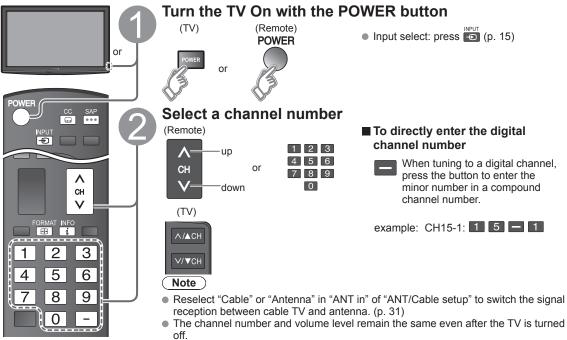
- Note
- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.
- Do not place C.A.T.S. in a blocked area.

Remote control

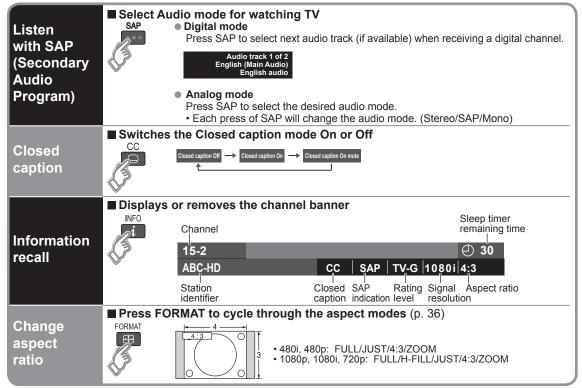
POWER	Closed Caption On/Off (p. 14)
Switches TV On or Off (Standby)	Selects Audio Mode for TV viewing (p. 14)
Changes the input mode (p. 15)	Exits from menu screen
Displaya Main Manu (n. 21. 24)	*
Displays Main Menu (p. 21, 34)	
	→ └── □ Viewing from SD Card (p. 18)
Displays Sub Menu (p. 19)	Selects/OK/Change
△ Colored buttons (used for various functions)	Returns to previous menu
	Channel up/down
Volume up/down	Displays or removes the channel
Sound mute On/Off	banner (p. 14)
	*
Changes aspect ratio (p. 14, 36) 4 5 6	Numeric keypad to select any channel
	(p. 14) or press to enter alphanumeric
Switches to previously viewed channel	input in menus (p. 15, 16, 28, 30, 33)
	\bigtriangleup Use for digital channels. (p. 14)
△ Use for SD mode operation	
* : Disable keys	
Not possible when connected to TA Panasonic	
(Online mode) \land : For setup mode only	1

TV operation

Connections (p. 10-12)

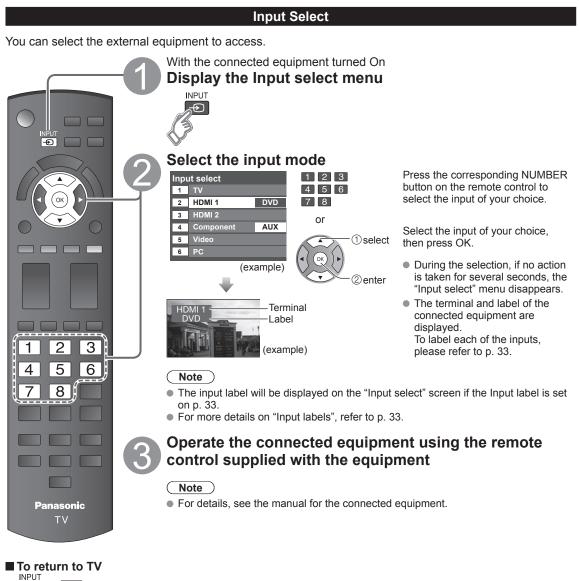


Other Useful Functions (Operate after 2)



Watching Videos and DVDs

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

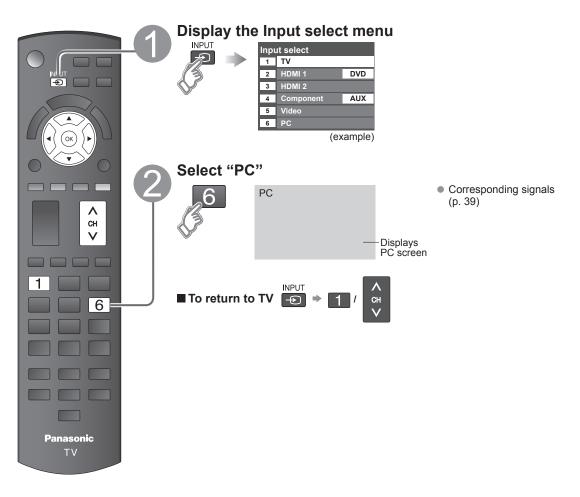


- 🔊

1

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. 12)



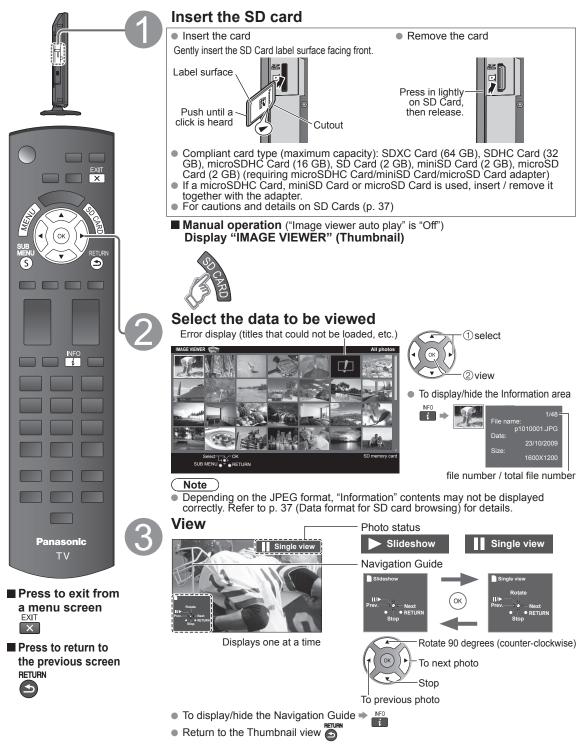
PC menu setting (change as desired)
 Making settings > "How to Use Menu Functions" 1 to 4 (p. 21)

Menu Item		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. 39) On green: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 39) 			
		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.			
Ire		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears.			
			Note It may not be possible to display a clear picture due to poor input signals.			
		Input resolution	Switches to wide display. Input signal switched from 640×480 to 852×480 Input signal switched from 1024×768 to 1280×768 or 1366×768			
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz			

• Audio menu (p. 22-23)

Viewing from an SD card

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



Display the SUB MENU

Note

This operation is disabled when "Mode" in Hotel Mode menu is set to "On".

1 Display "Setup SUB MENU" and select item





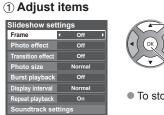
1 select Q OK

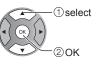
Slideshow settings (see below)

Thumbnails size

To change the number of photos on a thumbnail screen at a time \Rightarrow (7 × 4 \Leftrightarrow 10 × 6)

Slideshow





● To stop in mid-cycle ➡

Slideshow settings

Settings	Item Description
Frame	Select the Frame (Off/Array/Collage/Drift(with calendar)/Drift/Gallery(with calendar)/Gallery/Cinema)
Photo effect	Select the display effect (Off/Sepia/Gray scale)
Transition effect	Select the Transition effect shown between photos (Off /Fade in/Wipe \downarrow /Wipe \uparrow /Wipe \rightarrow /Wipe \leftarrow /Slide in \downarrow /Slide in \uparrow /Slide in \rightarrow /Slide in \leftarrow /Zoom in/Comb $\uparrow \downarrow$ /Comb $\rightarrow \leftarrow$ /Dissolve/Checker wipe/Motion/Random)
Photo size	Removes the black borders that are added according to the size of the photo being displayed. (Normal/Zoom)
Burst playback	Continuously plays photos that were shot. (On/Off)
Display interval	Set "Display interval" each image is displayed in the Slideshow mode. (Short/Fast/Normal/Slow/Very slow)
Repeat playback	Turn the Slideshow Repeat (cycle) function on or off (Off/On).
Soundtrack settings	Select the music (Off/Music 1/Music 2/Music 3)

• Picture quality may become lower depending on the slideshow settings.

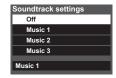
· Picture setting may not work depending on the slideshow settings.

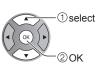
Soundtrack settings

1 Select "Soundtrack settings"

Slideshow settings		
Frame	Off	
Photo effect	Off	
Transition effect	Off	
Photo size	Normal	
Burst playback	Off	
Display interval	Normal	
Repeat playback	On	
Soundtrack settings		

② Select the music



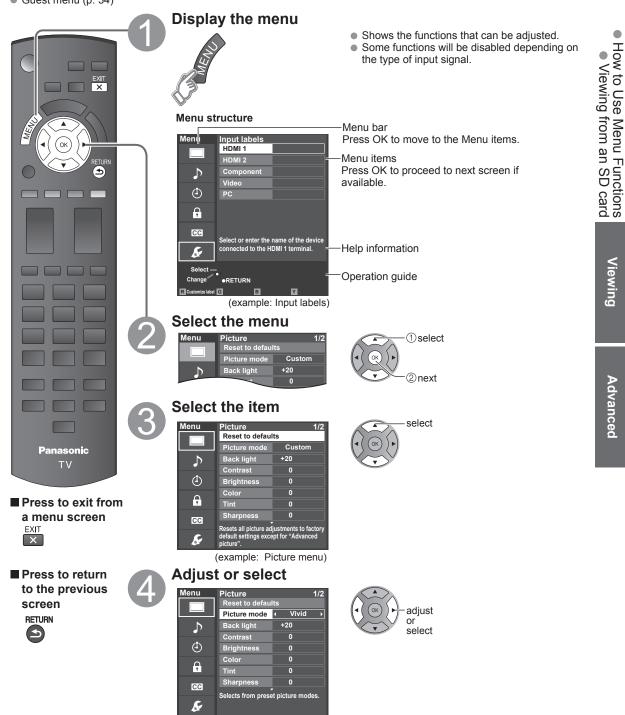


Viewing from an SD card (Continued)

Other settings in IMAGE VIEWER Adjust the Picture and Audio (Note) 1) select • This operation is disabled when "Mode" in Hotel Mode Picture 1/2 Reset to defaults menu is set to "On". 2 adjust Picture mode Vivid ① Display "Menu" Back light +20 Contrast Brightness 0 Color 0 Tint 0 Sharpness example: Picture menu Picture menu/Audio menu 2 Select the item (p. 22-23) Menu 1 select Picture Audio 20K 3 Set

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. Guest menu (p. 34)



(example: Picture menu)

Viewing

Advanced

How to Use Menu Functions

Menu list

nu Item		Adjustments/Configurations (alternatives)	
		Resets all picture adjustments to factory default settings except for "Advanced picture".	
		Basic picture mode (Vivid/Standard/Cinema/Custom) (p. 38)	
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)	
Color	⁻ mgmt.	On: Enhances green and blue color reproduction, especially outdoor scenes. (Off/On)	
A.I. p	icture	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. 36)	
spect adjustmer	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 % 	
Its	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. 38)	
PC adjustments		Sets PC display (p. 17)	
HDMI settings	HDMI/DVI RGB range	Prevents the blown out highlights and blocked up shadows when a wide-range signal is received. Selects between standard RGB range (16-235 bits) or non-compliance (0-255 bits). (Auto/Standard (16-235)/Nonstandard) Auto: Switches the RGB range (Standard (16-235)/Nonstandard) depending on the HDMI signal information.	
	Contents type	Sets content type to each HDMI input. (Off/Auto/Photo/Graphics) Auto: Switches content type automatically depending on the HDMI signal information. Photo: Best setting for JPEG viewing. Graphics: Best setting for On-Screen display of connected equipment.	
	3D Y/C filter	Minimizes noise and cross-color in the picture. (Off/On)	
Advance	Color matrix	Selects image resolution of component-connected devices (SD/HD) SD: Standard Definition HD: High Definition Only used with 480p video signal. 	
σ	MPEG NR	Reduces noise of specific digital signals of DVD, STB, etc. (Off/On)	
cture	Black level	Selects Dark or Light. Valid only for external input signals. (Dark/Light)	
⁽⁾	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		Increases or decreases the treble response.	
	Reset Pictu Back Color Color Color A.I. p C.A.T Video PC ac HDMI settings Advanced picture Reset Bass	Item Reset to defaults* Picture mode Back light Color temp. Video NR ID size ID Size <td colspa<="" th=""></td>	

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)		
merra		Surround	Enhances audio response when listening to stereo. (Off/On)		
	Adv				
	Advanced	Volume leveler	Minimizes volume disparity after switching to external inputs. Switches to "Off" when using external speakers (Off/On)		
Þ	audio	TV speakers	• "Surround" and "Volume leveler" do not work if "Off" is selected.		
ludio		HDMI 1 in HDMI 2 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)		
	DTV lan and SAP	Preferred language	Selected preferred language is used for automatic selection of service. (English/Spanish/ French)		
	nguage settings	Preferred audio type	Selected preferred audio type is used for automatic selection of service. (Main Audio/ Hearing Impaired/Visually Impaired)		
Timer	Slee	р	The TV can automatically turn Off at the designated time (0/15/30/60/90)		
Lock			Locks the programs. (p. 28)		
Closed caption	Closed caption		Displays subtitles (Closed caption). (p. 32)		
	Lan	guage	Selects the screen menu language. (English/Español/Français)		
	ANT	/Cable setup	Sets channels. (p. 30)		
	Connected devices	Input labels	Selects the terminal and label of the external equipment (p. 33)		
	ected	Audio out	To prevent howling, stops output of audio specified in this menu. (p. 33) (On/Off)		
	VIERA Link settings		See p. 26-27 for more detail.		
		Power save	Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. (Standard/Saving)		
		TCO 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)		
Setup	≣CO/energy		 "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No signal for 10 minutes". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 		
	/ saving	No activity for 3 hours	To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. (Stay on/Power TV off)		
	g		 Note Not in use while "PC" 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	Image viewer auto play	Set "Photos" to play back SD cards automatically. (Photos/Off)		
	up up	Fast boot	Set "On" to allow for faster booting from standby mode. Note that it consumes more electricity during the standby mode. (Off/On)		
	About		Displays TV version and software license.		
	Res	et to defaults	Performing Reset will clear all items set with Setup, such as channel settings.		

VIERA Link[™] "HDAVI Control[™]"*

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

This TV supports "HDAVI Control 5" function.

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

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

Version	Operations (See p. 26-27, for more information)
HDAVI Control or later	Automatic Input SwitchingPower off link
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control
HDAVI Control 3 or later	 Provides setting information (Language, time. etc.) Automatic lip-sync function
HDAVI Control 4 or later	
HDAVI Control 5	 Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable back from the TV to a connected audio device.

When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1 or HDMI2 (p. 15), and make sure that the image is displayed correctly.

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

HDMI cable

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

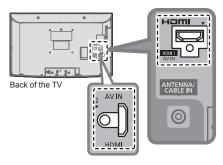
It is recommended that you use Panasonic's HDMI cable. Recommended part number:

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

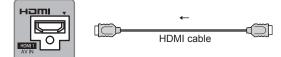
* For more details on the external equipment's connections, please refer to the operating manual for the equipment.

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

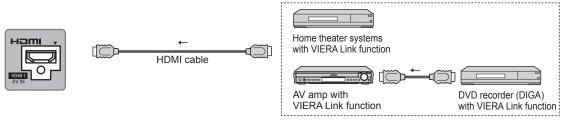
Terminal overview



Connecting DVD Recorder (DIGA)



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



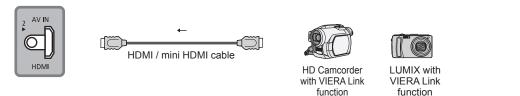
DVD recorder (DIGA) with VIERA Link function

No optical cable is necessary when connecting a Home Theater supporting "HDAVI control 5" with an HDMI cable. Audio will be supported via ARC (Audio Return Channel) (p. 24)

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

Connecting HD Camcorder/Digital camera

Press INPUT and select an available HDMI terminal, then connect the camcorder to this input. After connection, confirm the HDAVI control functions. (p. 26-27)



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

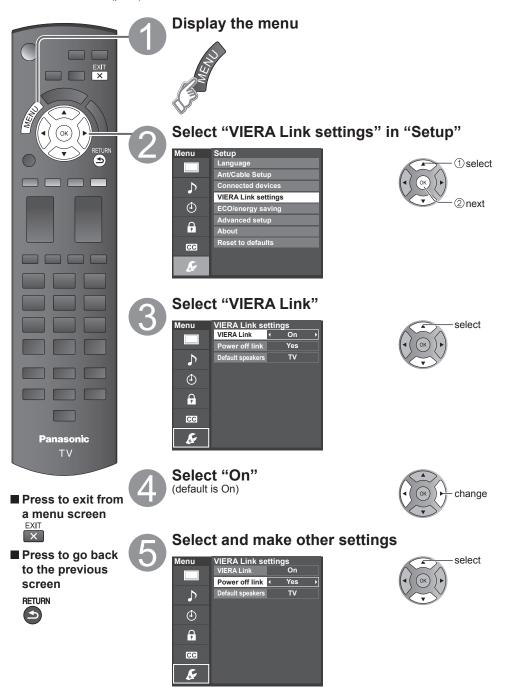
Note

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

VIERA LinkTM "HDAVI ControlTM" (Continued)

VIERA Link settings and Available features

To use all VIERA Link functions : After everything is connected, in VIERA Link settings menu, set "VIERA Link" to "On". Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 24)



Advanced

Automatic Input Switching

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

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

Power off link

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

- A Panasonic DVD Recorder will not turn off if it is still in Rec mode.
- The TV remains on even if the VIERA Link compatible equipment is turned off.

Default speakers

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

Automatic lip-sync function

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

TV provided setting information

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

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

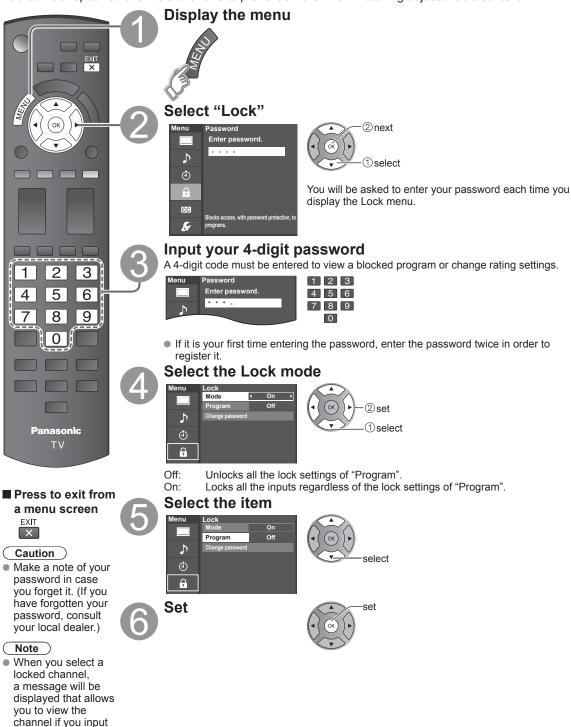
Note

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

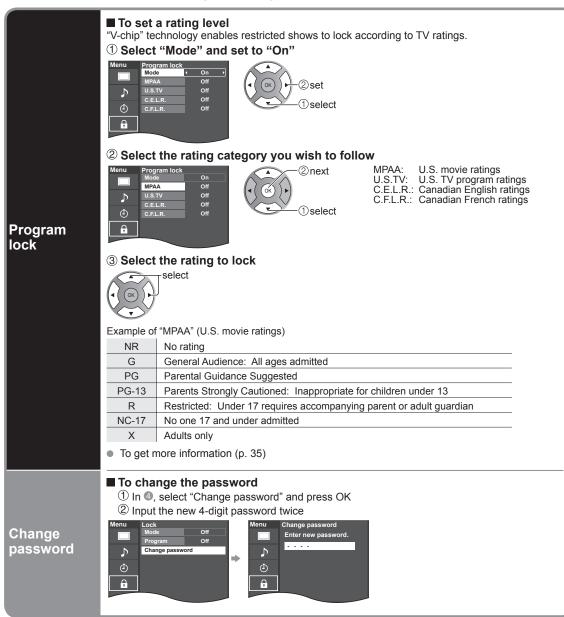
• For more details on the external equipment's operation, please refer to the operating manual for the equipment.

Lock

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



your password.



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

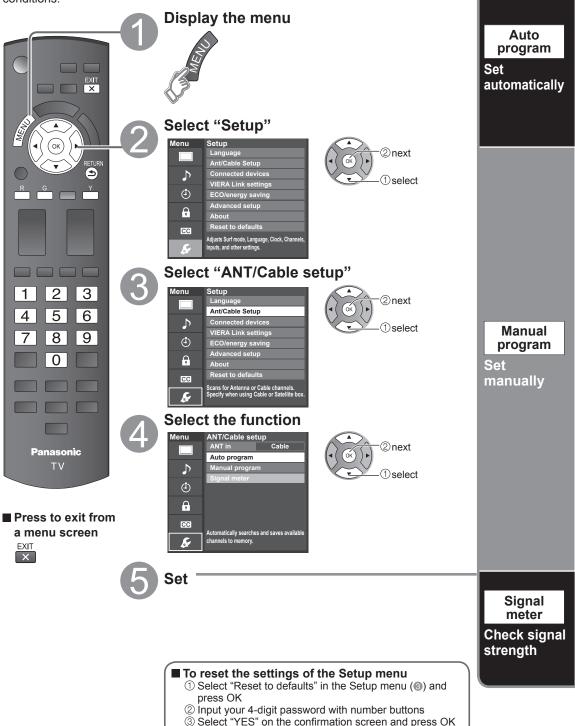
Note

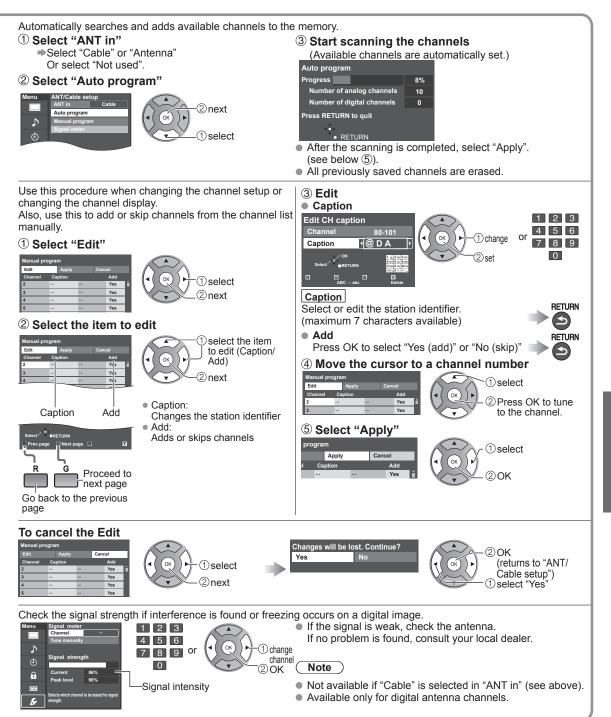
- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also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

Advanced

Editing and Setting Channels

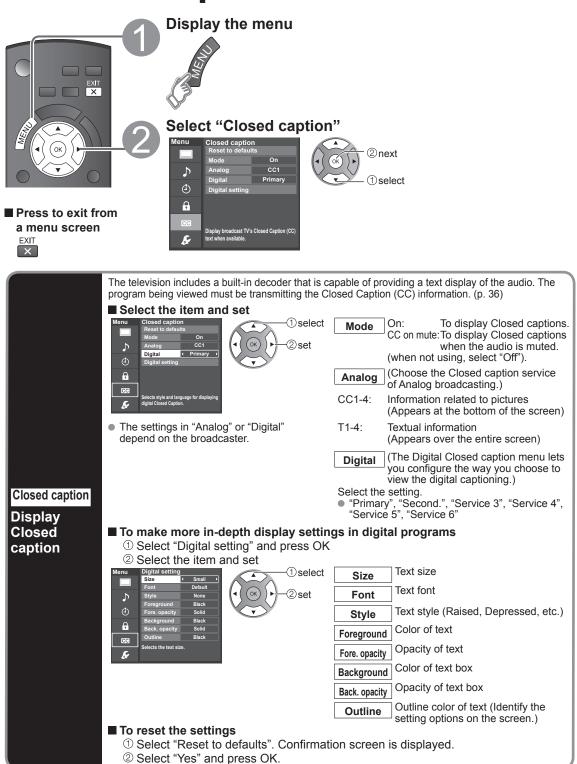
The current channel settings can be changed according to your needs and reception conditions.



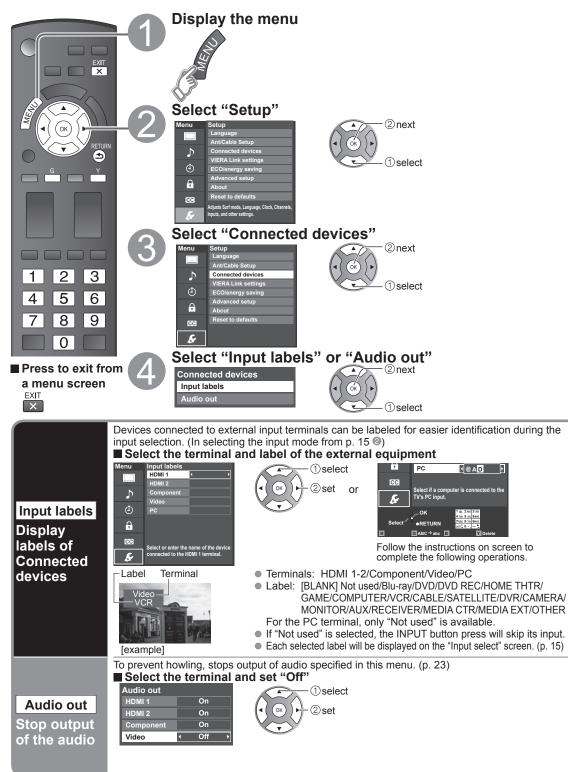


• If "Lock" (p. 28) is activated and "ANT/Cable setup" is selected, "Enter password." will be displayed.

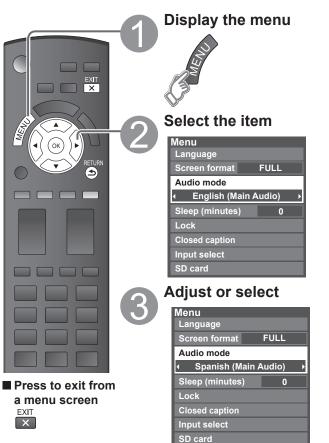
Closed Caption



Input Labels



Guest Menu





Shows the functions that can be adjusted.Some functions will be disabled depending on

the type of input signal.



Guest menu

Item Adjustments/Configurations (alternatives)	
Language	Selects the screen menu language. (English/Español/Français)
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. 36)
Audio mode Select Audio mode (p. 14)	
Sleep (minutes) The TV can automatically turn Off at the designated time (0/15/30/60/90)	
Lock	Locks the programs. (p. 28)
Closed caption	Displays subtitles (Closed caption). (p. 32)
Input select	Select Input (p. 15)
SD card	Displays Image viewer (p. 18)

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 29)

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 • A	 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

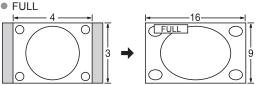
Closed caption (CC)

- 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.
- EIA-708 is the standard for closed captioning for ATSC digital television streams in the United States and Canada.
- EIA-608, also known as line 21 captions, used to be the standard for closed captioning for NTSC TV broadcasts in the United States and Canada.

Aspect Ratio (FORMAT)

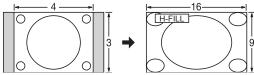
Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 14)

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



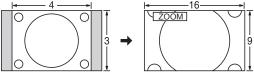
Enlarges the 4:3 image horizontally to the screen's side edges. Stretches to justify the 4:3 image to the four corners of the (Recommended for anamorphic picture)



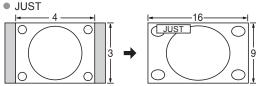


Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

ZOOM

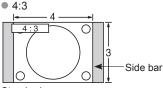


Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)



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

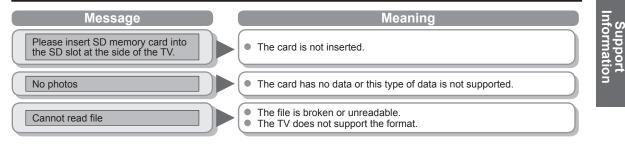
_			
		Data format for SD Card browsing	
Pł	noto:	Still images recorded with digital still cameras compatible with JPEG files of DCF* and standards	d EXIF**
Da	ata format:	Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)	
Μ	ax. number of files:	9,999	
١n	age resolution:	160 x 120 to 20,000,000	
	* DCF (Design rule for camera	file system): A Japan Electronics and Information Technology Industries Association's ** EXIF (Exchangeable Image File	
C	Caution		
	A JPEG image modified with a Partly degraded files might be	a PC may not be displayed. displayed at a reduced resolution.	
C	Note		
	Folder structure viewed in PC		
	DÇIM	—Created automatically	
		-3-digit folder number + 5-digit arbitrary characters	
		 4-digit arbitrary characters + 4-digit file number ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "" 	
•	For the suitable SD Memory C	/ be different depending on the digital camera used. Cards, please confirm the latest information on the following website. bal/cs (This site is in English only)	
		Cautions in handling SD Card:	
•		SD standards. If not, it may cause the TV to malfunction. the unit is accessing data (this can damage card or unit).	2.11111

- Do not touch the terminals on the back of the card.

- Do not subject the card to high pressure or impact.
 Insert the card in the correct direction (otherwise, card or unit may be damaged).
 Electrical interference, static electricity or erroneous operation may damage the data or card.
- 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.) Back up the recorded data at regular intervals in case of deteriorated or damaged data or



SD Card warning messages



Technical Information (Continued)

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-guality 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" or "HDMI 2 in" menu screen. (p. 23) 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.

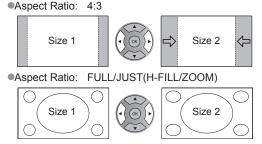
Caution

- 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 ۲ 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. 39.

Picture mode

- Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard:
- Cinema:
- Recommended for normal viewing conditions with subdued room lighting. For watching movies in a darkened room. It provides a soft, film-like picture.
- Custom (Photo): Customizes each item according to your taste.
 - Photo is displayed in JPEG menu.

H size



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

See page 22 for more information

Input signal that can be displayed

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

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

Note

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

(54321)
09876
(1) (1) (1) (1)

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

Pin Layout for PC Input Terminal

VIERA Link[™] "HDAVI Control[™]"

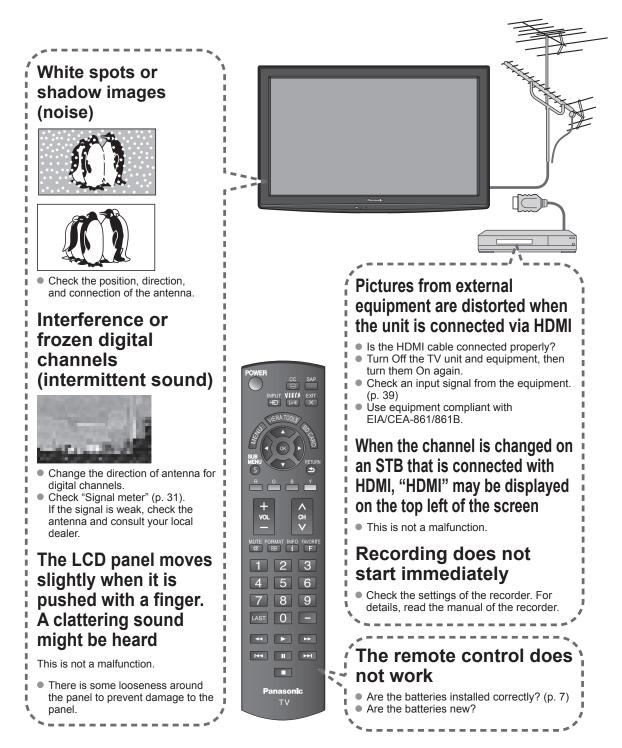
HDMI connections to some Panasonic equipment allows you to interface automatically. (p. 25)

- 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, 2011) for the HDAVI Control compatible equipment. This standard is compatible with the conventional HDAVI equipment.

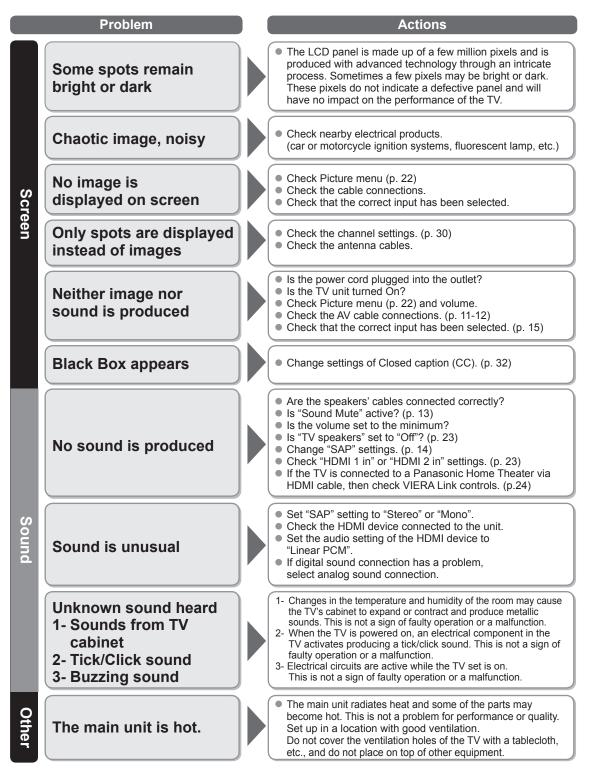
Signals other than above may not be displayed properly.

Troubleshooting

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.



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).



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.

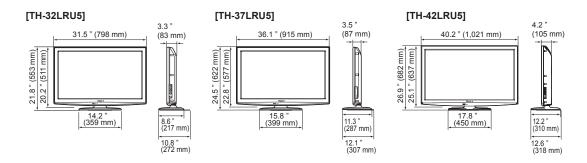
- Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do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

Specifications

		TH-32LRU5	TH-37LRU5	TH-42LRU5		
Power Source		AC 110-127 V, 60 Hz				
Power Consumption	Rated Power Consumption	115 W	165 W	205 W		
wer mption	Standby condition	0.9 W	0.9 W	0.9 W		
D	Aspect Ratio	16:9				
Display panel	Visible screen size	32" class (31.5 inches measured diagonally)	37" class (37.0 inches measured diagonally)			
/ pa	(W × H × Diagonal)	27.5 " × 15.4 " × 31.5 " (698 mm × 392 mm × 800 mm)	32.2 " × 18.1 " × 37.0 " (819 mm × 460 mm × 940 mm)	36.6 " × 20.6 " × 42.0 " (930 mm × 523 mm × 1, 067 mm)		
	(No. of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	2,073,600 (1,920 (W) × 1,080	(H)) [5,760 × 1,080 dots]		
Sound	Speaker	1-way 2 bottom SP System				
bur	Audio Output	20 W [10 W + 10 W] (10 % TH	ID)			
PC signals		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz				
Channel Capability- ATSC/NTSC (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135 (support MPEG4 H.264 decode)				
Operating Conditions		Temperature: 32 °F – 95 °F (0 °C – 35 °C) Humidity: 20 % – 80 % RH (non-condensing)				
	VIDEO IN	VIDEO: RCA PIN Type × 1 1.0 V[p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]				
Conr	COMPONENT IN	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]				
lectio	HDMI 1-2	TYPE A Connector × 2 • This TV supports "HDAVI Control 5" function.				
Connection Terminals	PC IN	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO: M3 JACK × 1 0.5 V [rms]				
MTI RJ-11C (6pin) • Multiple Television Interface (MTI)			: (MTI)			
S	AUDIO OUT	M3 JACK × 1 0.5 V [rms] (high impedance)				
	Card slot	SD CARD slot × 1				
FEA	TURES	3D Y/C FILTER, CLOSED CAPTION, V-Chip, Vesa compatible, Integrated Pro: Idiom				
Dimensions (W × H × D)	Including TV stand	31.5 " × 21.8 " × 10.8 " (798 mm × 553 mm × 272 mm)	36.1 " × 24.5 " × 12.1 " (915 mm × 622 mm × 307 mm)	40.2 " × 26.9 " × 12.6 " (1, 021 mm × 682 mm × 318 mm)		
nsions H × D)	TV Set only	31.5 " × 20.2 " × 3.3 " (798 mm × 511 mm × 83 mm)	36.1 " × 22.8 " × 3.5 " (915 mm × 577 mm × 87 mm)	40.2 " × 25.1 " × 4.2 " (1, 021 mm × 637 mm × 105 mm)		
Mass	Including TV stand	27.6 lb. (12.5 kg) NET	36.9 lb. (16.7 kg) NET	47.7 lb. (21.6 kg) NET		
A						



Note

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

Panasonic System Communications Company of North America Unit of Panasonic Corporation of North America Three Panasonic Way, 2F-5, Secaucus, NJ 07094

Panasonic Hospitality LCD HDTV Limited Warranty

Panasonic System Communications Company of North America (referred to as "the Warrantor") will repair this product and all included accessories with new or refurbished parts, free of charge in the USA or Puerto Rico, of the original purchase in the event of a defect in materials or workmanship as follows:

Models or Parts	Part Warranty	Labor Warranty
Professional Flat Panel Display	2 Years	2 Years

On-site or carry-in service in the USA and Puerto Rico may be obtained during the warranty period by contacting Panasonic System Communications Company of North America Service toll free at 1-800-973-4390.

This warranty is extended only to the original purchaser and is non transferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

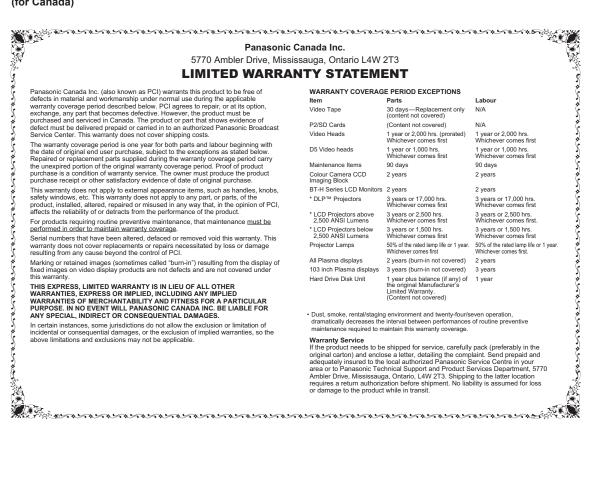
There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITION, DAMAGE TO DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

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 above exclusions or limitations may nor apply to you. This warranty gives you specific legal rights and you may other rights, which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write the Consumer Affairs Department at the Company address indicated above.

In the USA and Puerto Rico FOR SERVICE CALL TOLL FREE 1-800-973-4390



Customer Service

Customer Service Directory

Obtain products information and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

http://www.lar.panasonic.com

Also you may contact us directly by our Contact Center:

Panama	800-PANA (800-7262)
Colombia	01-8000-94PANA (01-8000-947262)
Costa Rica	800-PANA737 (800-7262737)
El Salvador	800-PANA (800-7262)
Guatemala	1-801-811-PANA (1-801-811-7262)
Dominican Republic	809-200-8000

Mexico Service

To obtain information in the Republic of Mexico contact us at:

email: atencion.clientes@mx.panasonic.com http://www.panasonic.com.mx

Or you may contact us in the next following phones numbers:

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01800-VIP-PANA (01800-847-7262) - Interior
(55) 5000-1200 - Mexico D.F. and Metropolitan Area
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USA only: 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 visit Panasonic website: http://www.panasonic.com/environmental or call 1-888-769-0149.

Customer's Record

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

Model Number

Serial Number

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Panasonic System Communications Company of North America Unit of Panasonic Corporation of North America

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