

Model No.

Owner's Manual 32" Class 720p LCD HDTV (31.5 inches measured diagonally)



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

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



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



VIECA Link

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



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

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



This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

• See back page for more information.

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Getting started

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Support Information

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 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 CHOKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.
- 24) WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times
- 25) **CAUTION:** The Power switch on this unit will not completely shut off all power from AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power.

Therefore, make sure the unit has been installed 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. TC-32LX44

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

CEA CHILD SAFETY NOTICES

WARNING

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

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

TUNE INTO SAFETY:

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

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

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

Panasonic recommends that a qualified installer perform the wall-mount installation. See page 5.

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



Accessories/Optional Accessory

Accessories Check you have all the items shown. Accessories Betteries for the Remote Control Transmitter (2) AA Battery AA Battery How to assemble (p. 8) Owner's Manual Quick Start Guide Owner Card (U.S.A.)

Optional Accessory

Wall-hanging bracket ● TY-WK3L2RW



The angle of wall-hanging bracket can be adjusted in "zero tilting (vertical)", "5-degree tilting", "10-degree tilting", "15-degree tilting" and "20-degree tilting" for this TV.

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.

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.



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 pedestal other than that provided with this TV.

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

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

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

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

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



Do not burn or break batteries.

Connections

2

Firmly tighten by hand.



green/ yellow

Insert firmly.

Insert firmly.

AV cable connection



Conversion adapter (if necessary)

Identifying Controls

TV controls/indicators

Front of the TV





Remote control sensor within about 23 feet (7 meters) in front of the TV set

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

The first time setup screen is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 38) is set to "No".



- The settings up to that point are saved.
 You can start "First time setup". (p. 38)
- Language, ANT/Cable setup, Input labels, Clock can also be changed from the Settings Menu. (p. 38)



video and sound

= OK





Label the inputs for easy identification (Label inputs)

To name each input, follow the instructions on screen. When done, select NEXT and press OK to go to the next step.



(1) select or 2) set



Follow the instructions on screen to complete the following operations.

R

To edit the labels to match your connected devices.

- [BLANK] Blu-ray/CABLE/SATELLITE/DVD/DVD REC/DVR/GAME/HOME Label: THTR/RECEIVER/COMPUTER/MEDIA CTR/MEDIA EXT/VCR/CAMERA/ MONITOR/AUX/OTHER/Not used
- Select "Not used" for any back-panel input that has no device connected to it. Afterward, the input will be skipped when pressing INPUT, for your convenience.
- The input labels can be changed at any time from the TV's setup menu

Adjust the Clock (Set clock)

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







Follow the instructions on screen to complete the following operations.

Complete First time setup

Congratulations! You are done.



The First time setup can be repeated at any time.

or

Press MENU and select SETUP; then "First time setup".

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



3

2ABC 3DEF

6MNO

9_{WXYZ}

5 лк.

8TUV

0-.

Panasonic

TV

■ Press to exit from a menu screen

> EXIT X

1 ...

4_{GHI}

7_{PQRS}

Watching TV

		Turn power on		
POWER	SAP	(Remote) ((TV) OWER	Note Please select correct input ⇒
NPUT P		or of		
		Select a chann	el number	
SUBU S S C C C C C C C C C C C C C C C C C		up cH or down or down or end		 To directly enter the digital channel number When tuning to a digital channel, press the button to enter the minor number in a compound channel number. example: CH15-1: 1. 5 1. in" of "ANT/Cable setup" to switch the signal na. (p. 13, 32) remain the same even after the TV is turned
Other Lise	ful Functions			
		ndary Audio Prod	pramming)	
	Listen with SAP (Secondary Audio Programming) Select the Audio mode for watching TV			
SAP Digital mode Press SAP to select next Audio track (if available) when receiving a digital channel. Audio track 1 of 2 (English)			eiving a digital channel.	
		ect the desired Audio m SAP will change the Aud		AP/Mono)
				atellite box connected via HDMI. n enabling SAP with their box.
Closed C	aption			
		ption mode On or O	ff	
CC	Closed caption Off	Closed caption On	Closed caption	On mute
	Contact your C	Cable or Satellite operato		Cable or Satellite box connected via HDMI. n enabling CC with their box.
Displaying Information				
Displays and removes information. When watching programming via the Antenna/Cable input, shows the channel banner.				
INFO	Channel		Clock	
i	15-2 THE NE ABC-HD CC SAF Station identifier SAP	V TV-G 10801 Standa Signal Pictu ation resolution mode	re Sleep timer e remaining ti	
	Closed caption	Rating Level	Aspect ratio	

Change aspect ratio and Zoom the picture

■ Press FORMAT to cycle through the aspect modes (p. 40)



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

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

Note)

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

Display the SUB MENU

Press SUB MENU to show the Sub Menu screen

This menu consists of shortcuts to convenient functions. Sub menu is only available when the TV is using the Antenna/Cable input, not when using Cable or Satellite box.

SUB MENU	
S	

Setup SUB MENU	
Channel surf mode	Specify favo
All	down button
Set favorite	Set favorite
Edit CH caption	Edit the char
Signal meter	Check the si

-Specify favorites or type of channels to view when pressing the channel up/ down button. -Set favorite channel (below) -Edit the channel identifier (p. 33)

Check the signal strength (p. 33)

Call up a favorite channel

■ FAVORITE

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use the number buttons. (p. 15)







To change the page



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



Changes the page forward/backward

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

Other Useful operations



Input your 4-digit password



- If it is your first time entering the password, enter the password twice in order to register it.
- Make a note of your password. Do not forget it. (If you have forgotten your password, consult your local dealer.)
- When you select a locked channel, a message will be displayed that allows you to view the channel after you input your password.
- Change password (p. 37)

Operate USB keyboard

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

Key chart

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

For more details on setting and operation of the USB keyboard, please also read the operating manuals for the USB keyboard.

Some keyboards do not have these keys.

Using VIERA TOOLS

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



RETURN

Watching content from external devices



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

Note

- For details, see the manual for the connected equipment.
- PC adjustments (p. 35)

Basic

Using Media player

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

Basic features for Media player

■ Available contents and features



• For more information and cautions on SD card and USB flash memory (p. 41)

Viewing Contents



(e.g. Photos)

Videos → p. 24
 Music → p. 25



Slideshow 1 Display "Slideshow settings" 2 Adjust items and select "Slideshow start" Slideshow settings (1) select Start Slidesho Frame Photo effect Off 20K Transition effect Off Photo size Normal Burst playba Display RETURN To stop in mid-cycle Press G Normal splay interval peat playback Rep (example) Soundtrack settings (example)

■ Slideshow settings

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

Picture quality may become lower depending on the slideshow settings.

Picture setting may not work depending on the slideshow settings.

Soundtrack settings

① Select "Soundtrack settings"





2 Select "User select"

$\ensuremath{\textcircled{3}}$ Select the song and register



This song: Register current music. All songs in folder : Register the music in a folder. (1) select

20K



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

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

• For more data format information. (p. 41)



Basic

VIERA Link[™] "HDAVI Control[™]"

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

This TV supports "HDAVI Control 5" function.

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

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

Version	Operations (See p. 28-31, for more information)
HDAVI Control or later	 Automatic Input Switching Power on link Power off link Default speakers Speaker control
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control Unselected device energy save (for available equipment only)
HDAVI Control 3 or later	 Provides setting information (Language, time. etc.) Automatic lip-sync function
HDAVI Control 4 or later	Energy saving mode (with Quick Start mode)
HDAVI Control 5	 Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable back from the TV to a connected audio device.

■ When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1 or HDMI2 (p. 19), and make sure that the image is displayed correctly.

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

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

■ HDMI cable

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

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

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

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

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

Terminal overview



Connecting DVD Recorder (DIGA)



■ Connecting Home theater system/AV amp

HDMI 1 is recommended.



No optical cable is necessary when connecting a Home Theater supporting "HDAVI control 5" with an HDMI cable. Audio will be supported via ARC (Audio Return Channel) (p. 26)

• 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. 28-29).



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

Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective manuals.
- When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.
 (M/second system size LDML year can append system auditud)
- (When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)
- Some devices use Mini-HDMI terminal. HDMI (type A) to Mini-HDMI (type C) cable or adapter should be used.

VIERA Link settings and Available features

To use all VIERA Link functions: After everything is connected, in VIERA Link settings menu, set "VIERA Link" to "On". Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 26)



Advancec

Automatic Input Switching

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

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

Power on link

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

Power off link

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

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

Energy saving mode

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

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

Unselected device energy save

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

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

Default speakers

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

Automatic lip-sync function

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

TV provided setting information

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

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

Note

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

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

VIERA Link menu and Available features

Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 26)





Back to TV

You can select available items only.

Available TV remote control buttons

- control, pointing it at the TV
- To operate the equipment, read the manual of the equipment.

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 E	Closed caption
 8 7 	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 - 9	0-9		Select digital subchannel

Back to TV

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



Editing and Setting Channels

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



- Menu ANT/Cable setup ANT in Cable Auto program Manual program Signal metor (1)
- After the scanning is completed, select "Apply". (see p. 33 (5)).
- All previously saved channels are erased.



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.



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

Picture se	ettings Ad	ljust the image of	or picture quality	
Settings	Items	Item Description		
Reset to defaults	nomo	Resets all picture adjustments to factory default settings except for "Advanced picture".		
Picture mode	Vivid	Provides enhanced picture contrast and sharpness for viewing in a well-lit room.		
	Standard	Recommended for normal viewing conditions with subdued room lighting.		
	Cinema	For watching movies in a darkened room. It provides a soft, film-like picture.		
	Custom (Photo)			
		Photo is displayed in JPEG menu.		
Back light		Adjusts the luminance of the back light.		
Contrast, Brightness,		Adjusts the color, brightness, etc. for each picture mode to suit your taste		
Color, Tint,		 Display range 	Contrast/Brightness/Color/Sharpness : 0 - 100 Tint :-50 - +50	
Sharpness	• • • • • • • • • • • • • • • • • • •	<u></u>		
Color temp.	Cool/Normal/Warm		Cool (blue), Normal, or Warm (red) color.	
Color mgmt.	Off/On		n and blue color reproduction, especially outdoor scenes.	
A.I. picture	Off/On		without affecting the black level or brightness in the overall picture.	
C.A.T.S.	Off/On		s the screen brightness according to the ambient lighting condition.	
Video NR	Off/On		monly called snow. Leave it off when receiving a strong signal.	
	grayed out depending timents" will be grayed			
Aspect adjustments	Screen format	t FULL/H-FILL/ Changes the format (aspect ratio). JUST/4:3/ZOOM Lets you choose the aspect depending on the format or received signal. (p. 40)		
	H size	Size 1/Size 2	Adjusts the horizontal display range to reduce noise of both side edges of an image. Size 2: Adjusts the image size according to the aspect mode to reduce noise. (p. 40)	
	Zoom adjustments	Adjusts vertical aligr	ment and size when aspect setting is "ZOOM".	
PC adjustments	Reset to defaults	Resets PC adjustme	ents.	
	Sync	H & V	The H and V sync signals are input from the HD/VD connector. (p. 43)	
		On green	Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 43)	
	Dot clock	Alleviates the problem	if a picture appears to be vertically-striped, flickers partially or is blurred.	
	H-position	Adjusts the horizont	al position.	
	V-position	Adjusts the vertical position.		
	Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the clock Phase so that a clear picture appears. It may not be possible to display a clear picture due to poor input signals.		
	Input resolution	 Switches to wide display. VGA (640×480 pixels), WVGA (852×480 pixels), XGA (1,024×768 pixels), WXGA (1,280×768 pixels) Options change depending on signals 		
	H-frequency V-frequency	Displays the H (Hori Display range Horizontal:15 - 110 I Vertical: 48 - 120		

Settings	Items	Item Description		
HDMI settings	HDMI/DVI RGB range (HDMI 1-2)	Auto/ Standard (16-235)/ Nonstandard	Prevents the blown out highlights and blocked up shadows when a wide-range signal is received. Selects between standard RGB range (16-235 bits) or non-compliance (0-255 bits). Auto: Switches the RGB range (Standard (16-235)/Nonstandard) depending on the HDMI signal information.	
	Contents type (HDMI 1-2)	Off/Auto/Photo/ Graphics	Sets content type to each HDMI input. Auto: Switches content type automatically depending on the HDMI signal information. Photo: Best setting for JPEG viewing. Graphics: Best setting for On-Screen display of connected equipment.	
	grayed out dependi n" will be grayed ou		al or condition. high definition or you are viewing photos, etc.)	
Advanced	3D Y/C filter	Off/On	Minimizes noise and cross-color in the picture.	
picture	Color matrix	SD/HD	Selects image resolution of component-connected devices. SD: Standard Definition HD: High Definition Only used with 480p video signal.	
	Block NR	Off/On	Reduces noise of specific digital signals of DVD, Cable box, etc.	
	Mosquito NR	Off/On	Reduces HDTV flicker noise in the contoured sections of an image.	
	Black level	Dark/Light	Selects Dark or Light. Valid only for external input signals.	
	3:2 pulldown	Off/On/Auto	Adjusts the picture recorded in 24 fps for optimum quality.	
Audio setti	ngs Adjust A	udio quality		
Settings	Items	Item Description		
Reset to defaults		Resets Bass, Treble, and Balance adjustments to factory default settings.		
Bass		Increases or decreases the bass response.		
Treble		Increases or decreases the treble response.		
Balance		Emphasizes the left / right speaker volume.		
Advanced audio	A.I. sound	Off/On	On Equalizes overall volume levels across all channels and external inputs.	
	Surround	Off/On	Enhances audio L/R response when listening to stereo.	

Surround	Uff/Un	Enhances audio L/R response when listening to stereo.
Volume leveler		Minimizes volume disparity after switching to external inputs.
TV speakers	Off/On	Switches to "Off" when using external speakers. Off: "A.I sound", "Surround" and "Volume leveler" do not work if "Off" is selected.
HDMI 1-2 in	Digital/ Comp./Video	The default setting is "Digital" for the HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal)

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

If the Timer settings are grayed out, first set the clock (see p. 38) and make sure "Auto power on" is set to "No" (see p. 38)

Settings	Items	Item Description		
Sleep (Off timer)	Sleep (minutes)	Off/15/30/60/90	Select how long for the TV to automatically turn off.	
Timer 1-5	Timer set	Enables or disables this timer. (Off/On) Sets the input to select when the TV turns on.		
(On/Off timer)	Inputs			
	Channel	Sets the channel to select when the TV turns on.		
	Day	Sets the day when the TV turns on. [SUN/MON/TUE/WED/THU/FRI/SAT(displays the nearest future date) MON-FRI/SAT-SUN/DAILY/Every SUN/Every MON/Every TUE/Every WED/Every THU/Every FRI/ Every SAT]		
	On time	Sets the time when the TV turns on. The TV will turn off after 90 minutes or as specified.		
	Off time Sets the time when the TV turns off within 24 hours.		the TV turns off within 24 hours.	
Lock Locks specified channels or shows to prevent children from watching objectionable content.

You will be asked to enter your password each time you display the Lock menu. • Password setting/entering (p. 17)

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

Settings	Items	Item Description			
Mode	Off	Unlocks all the Lock settings of "Channel", "Game" and "Program".			
	All	Locks all the inputs regardless of the Lock settings of "Channel", "Game" and "Program".			
	Custom	Locks specified inputs of "Channel", "Game" and "Program".			
Channel (These channels will be blocked regardless of the	Mode	Set channel lock status. (Off/All/Custom) All: Locks all channels Off: Unlocks all channels Custom: Locks specified channels. Set "Channel 1" - "Channel 7"			
program rating.)	Channel 1-7	Select a channel to lock. (Select up to 7 (1-7) channels to block.)			
Game	On/Off	Locks Channel 3, Channel 4, and external inputs.			
Program (To set a rating	Mode	Set program lock status. (Off/On) "V-chip" technology enables restricted shows to lock according to TV ratings. On: Set each rating level (MPAA, US.TV, C.E.L.R., C.F.L.R.)			
level)	MPAA	Select U.S. movie ratings to lock.			
	U.S.TV	U.S. TV program ratings.	For more – information		
	C.E.L.R.	Canadian English ratings.	(p. 39)		
	C.F.L.R.	Canadian French ratings.	,		
Change password		Change the password. Input the new 4-digit password twice.			

• This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)

- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also be blocked.

Consed caption Display closed caption

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed caption (CC) information. (p. 42)

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

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

Advanced

を Setup	Other	function settings
Settings	Items	Item Description
Channel surf mode	All/Favorite/ Digital only/ Analog only	Sets the mode to select the channel with the Channel up/down button. Favorite: Only channels registered as FAVORITE. (p. 16)
Language	English/ Español/ Français	Selects the screen menu language.
Clock		Adjusts the clock. (p. 14)
ANT/Cable setup	See p. 32-33 for m	
Input labels (Display labels of connected devices)	Devices connected input selection. (In Terminals: HDMI 1 Label: [BLANK] I RECEIVER/COM Not used	-2/Comp./Video/PC Blu-ray/CABLE/SATELLITE/DVD/DVD REC/DVR/GAME/HOME THTR/ /IPUTER/MEDIA CTR/MEDIA EXT/VCR/CAMERA/MONITOR/AUX/OTHER/
		er the label name directly. (Entering characters (p. 17))
	See p. 28-29 for m	
ECO/energy saving	Power save (Standard/ Saving)	Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room.
	No signal for 10 minutes (Stay on/ Power TV off)	 To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION continue for more than 10 minutes. Not in use when "Auto power on" is set to "Yes", or "On/Off Timer" is set. "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 (Stay on/ Power TV off)	 To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. Not in use when "Auto power on" is set to "Yes", 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.
Keyboard type		Select keyboard type. Operate USB keyboard (p. 17) (U.S./Canadian French/Canadian Multilingual Standard/Spanish (Latin America)/Spanish (Spain))
Advanced setup	Auto power on (No/Yes)	Turns TV On automatically when the cable box or connected device is turned On. TV AC cord must be plugged into this device. TV turns on every time the power is restored
	Image viewer auto play	Slideshow/ Photos/Videos/ MusicSets the media contents or playback type to play back SD cards automatically. Set later: "Image viewer settings" menu will be displayed repeatedly "Using Media player" (p. 20)
First time setup		Restarts the first time setup from "Language" setting. (p. 12)
About		Displays TV version and software license.
Reset to defaults		Performing Reset will clear all settings made with Setup, such as channel settings. • Password setting/entering (p. 17)

Ratings List for parental control

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

U.S. MOVIE RATINGS (MPAA)

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

U.S. TV PROGRAMS RATINGS (U.S. TV)

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

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

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

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

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

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

Caution

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

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

Technical Information

Aspect Ratio (FORMAT)

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 16) (e.g.: in case of 4:3 image)



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



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

ZOOM



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

Zoom adjustments

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

- (1) Select "Zoom adjustments" on the "Picture" menu. (p. 35)
- 2 V-position: Vertical position adjustment



(OK) To reset the aspect ratio +





H size

Aspect Ratio: 4:3



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



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

JUST \cap 3 C

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

(Recommended for normal TV broadcast)



Standard

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

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

See page 35 for more information

Data format information

Compatible Data format for Media player (SD card/USB flash memory)
 p. 24
 DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard EXIF: Exchangeable Image File Format

Note

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

Cautions when handling SD Cards

- Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.
- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to high pressure or impact.
- Insert the card in the correct direction (otherwise, card or unit may be damaged).
- Electrical interference, static electricity or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic
 operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)



SD Card/USB flash memory warning messages



VIERA Link[™] "HDAVI Control[™]"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 27)

- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if the TV is in Standby mode.
- Image or sound may not be available for the first few seconds when playback starts.
- Image or sound may not be available for the first few seconds when input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect equipment that has "HDAVI Control 2 or later" function to the TV with an HDMI cable, the sound from the DIGITAL AUDIO OUT terminal can be output as multi-channel surround.
- "HDAVI Control 5" is the newest standard (current as of December, 2010) for the HDAVI Control compatible equipment.
 This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in" or "HDMI 2 in" menu screen. (p. 36) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz
 - (*1): The HDMI logo is displayed on an HDMI-compliant device.
 - (*2): Enquire at your local digital equipment retailer shop.

Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 43.

DIGITAL AUDIO OUT terminal

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

Caution

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.
- When playing a movie on SD Card Movie player, when the sound has been recorded in Dolby Digital, the output from the DIGITAL AUDIO OUT terminal will be Dolby Digital. When the sound is recorded in other formats, the output will be PCM.

Closed Caption (CC)

- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- The CC can be displayed on the TV only when the receiver (such as a Cable box or satellite receiver) has the CC set to ON within the device itself. Check with your Cable or Satellite provider for instructions. <u>The TV's CC button does</u> not operate the Satellite or Cable box's CC function.
- If the CC is set to On on both the receiver and TV when the signal is 480i (except for the HDMI connection), the CC
 may overlap on the TV.
- If a digital program is being output in analog format, the CC data will also be output in analog format.
- If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

PC Input Terminals

Signal Names for D-sub 15P Connector

$ \begin{array}{c} (1) (2) (3) (4) (5) \\ (6) (7) (8) (9) (0) \\ (1) (2) (3) (4) (5) \end{array} $		
Pin Layout for PC Input Termina		

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

Input signal that can be displayed

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

F

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

Note

Signals other than above may not be displayed properly.

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

Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)

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

Care and Cleaning

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

Display panel

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

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

Cabinet

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

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

Pedestal

Cleaning

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

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

 Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

Power cord plug

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

Specifications

		TC-32LX44			
Power Source		AC 110-127 V, 60 Hz			
Power Consumption	Rated Power Consumption	102 W			
ver mption	Standby condition	0.2 W			
D	Aspect Ratio	16:9			
spla	Visible screen size	32" class (31.5 inches measured diagonally)			
Уp	(W × H × Diagonal)	27.5 " × 15.4 " × 31.5 " (698 mm × 392 mm × 800 mm)			
Display panel	(No. of pixels)	1,049,088 (1,366 (W) x 768 (H)) [4,098 x 768 dots]			
	Speaker	1-way 2 bottom SP System			
Sound	Audio Output	10 W [5 W + 5 W] (10 % THD)			
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			
Oper	rating 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]			
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]			
ctio	HDMI 1-2	TYPE A Connector × 2			
기	1100	This TV supports "HDAVI Control 5" function.			
erm	USB	USB 2.0 Type A connector x 1 (DC5V MAX500mA) D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω)			
ina	PC	HD, VD / 1.0 - 5.0 V [p-p] (r3 Ω)			
S	Card slot	SD CARD slot × 1			
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic			
FEATURES		3D Y/C FILTER CLOSED CAPTION V-Chip Vesa compatible VIERA IMAGE VIEWER Media player HDAVI Control 5			
Dimensions (W × H × D)	Including TV stand	30.1 " × 20.1 " × 7.8 " (763 mm × 510 mm × 196 mm)			
sions I × D)	TV Set only	30.1 " × 13.7 " × 3.4 " (763 mm × 348 mm × 85 mm)			
Mass	Including TV stand	17.7 lb. (8.0 kg) NET			
SS	TV Set only	16.6 lb. (7.5 ^{kg}) NET			

[TC-32LX44]



Note

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

Frequently Asked Questions (FAQ)

If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, visit the Panasonic web site for further assistance. (see cover)





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

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

Panasonic LCD Televisions Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (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			On-Site

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts.

You must carry-in your product or arrange for on-site service during the Limited warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

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 Center:

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 SERVICENTER

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.

This product incorporates the following software or technology:

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

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

(3) the software developed by the Independent JPEG Group,

(4) the software developed by the FreeType Project,

(5) the software licensed under the GNU LESSER General Public License (LGPL) and/or,

(6) open sourced software other than the software licensed under the LGPL.

(7) Windows Media digital right management technology (WM-DRM) licensed by Microsoft Corporation or its affiliates.

For the software categorized as (5), please refer to the terms and conditions of LGPL, as the case may be at

http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

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

Please refer to the copyright notice of those individuals at

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

The LGPL software is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY,

without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

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

Contact Information

cdrequest@am-linux.jp

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

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

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

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

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

(b) Content providers are using the digital rights management technology for Windows Media contained in this device ("WM-DRM") to protect the integrity of their content ("Secure Content") so that their intellectual property, including

copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content ("WM-DRM Software"). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content

("Secure Content Owners") may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content.

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

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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A. Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario L4W 2T3 CANADA

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