Panasonic

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

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

Customer's Record

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

Model Number

Serial Number

Anotación del cliente

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

Modelo

Número de serie

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

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Operating Instructions 42" Class 1080p LCD HDTV (42.0 inches measured diagonally) Manual de instrucciones Televisión de alta definición de 1080p y clase 42" de LCD (42,0 pulgadas medidas diagonalmente) Número de modelo Número de modelo TC-L42U12

 Image: See page 8-16

 Image: See page 8-16





English

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

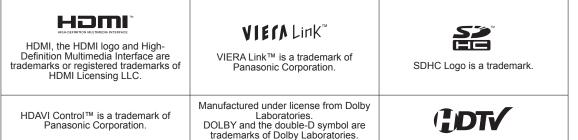
Español

Lea estas instrucciones antes de utilizar su televisor y guárdelas para consultarlas en el futuro. Las imágenes mostradas en este manual tienen solamente fines ilustrativos.



Turn your own living room into a movie theater! Experience an amazing level of multimedia excitement







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.



Contents

Please read before using the unit

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Quick Start Guide

Enjoy your TV! Basic Features

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Advanced

Quick Start Guide

Safety Precautions



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

The exclamation point within a triangle is intended to tell the user that important operating and servicing

instructions are in the

papers with the appliance.

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

Note to CATV System Installer

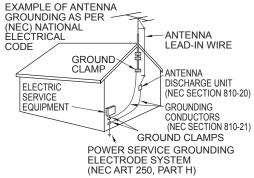
This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as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

Secure Ventilation

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

Important Safety Instructions

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



19)An outside antenna system should not be located in the vicinity of overhead power lines, other electric light, power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

20) Unplug this LCD TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the LCD TV.
- c. If the LCD TV has been exposed to rain or water.
- d. If the LCD TV does not operate normally by following the operating instructions.
 - Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD TV to normal operation.
- e. If the LCD TV has been dropped or the cabinet has been damaged.
- f. When the LCD TV exhibits a distinct change in performance this indicates a need for service.
- 21) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22) WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING.

DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET (INCLUDING ON SHELVES ABOVE, ETC.).

- 23) WARNING: SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.
- 24) **CAUTION:** 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.
- 25) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 26) **CAUTION:** DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 27) CAUTION: This LCD TV is for use only with the following optional accessory. Use with any other type of optional accessories may cause instability which could result in the possibility of injury. (All of the following accessories are manufactured by Panasonic Corporation)
 Wall-hanging bracket: TY-WK3L2RW Always be sure to ask a qualified technician to carry out set-up.
- **NOTE:** This equipment is designed to operate in North America and other countries where the broadcasting system and AC house current are exactly the same as in North America.

Safety Precautions (Continued)



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.

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:

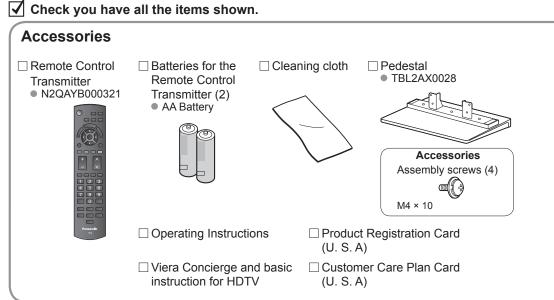
To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this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

FCC Declaration of Conformity Model No. TC-L42U12

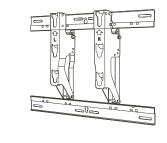
| Responsible Party: | Panasonic Corporation of North America |
|--------------------|---|
| Contact Source: | One Panasonic Way, Secaucus, NJ 07094 Panasonic Consumer Electronics Company |
| email: | 1-877-95-VIERA (958-4372) consumerproducts@panasonic.com |

Accessories/Optional Accessory

Accessories

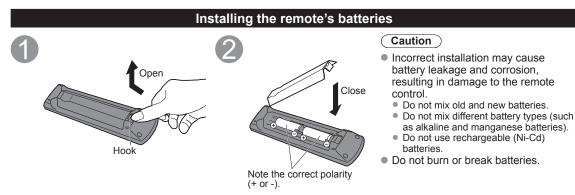


Optional Accessory



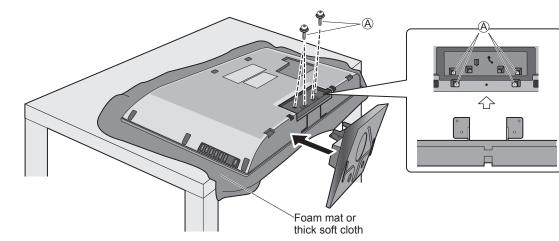
Wall-hanging bracket ● TY-WK3L2RW

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



Attaching the pedestal to TV

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



WARNING

 Always be sure to ask a qualified technician to carry out set-up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
 Do not disassemble or modify the pedestal.

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

Caution

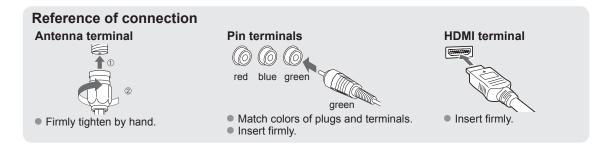
Do not use any other TV and displays.

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

- Do not use the pedestal if it becomes warped or physically damaged.
- If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

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

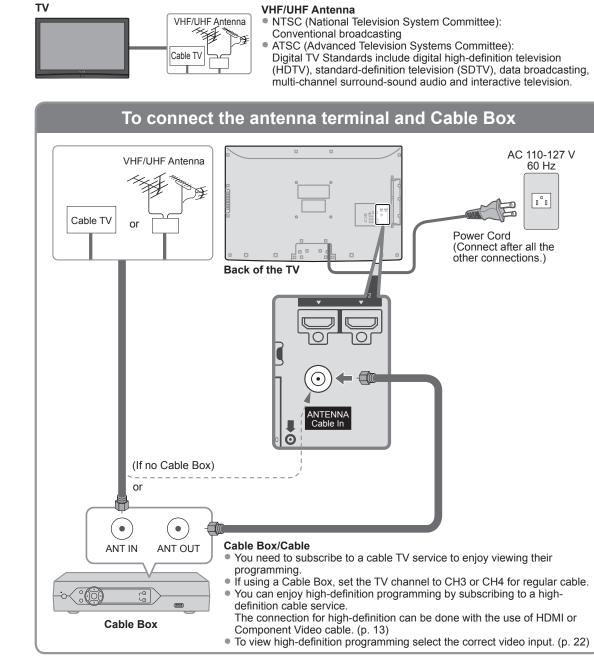
 If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.



Basic Connection

Connecting Antenna (To watch TV)

Example 1



Note

For more details on the external equipment's connections, please refer to the operating manuals for the equipment. • For additional assistance, visit us at: www.panasonic.com

www.panasonic.ca

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

TV

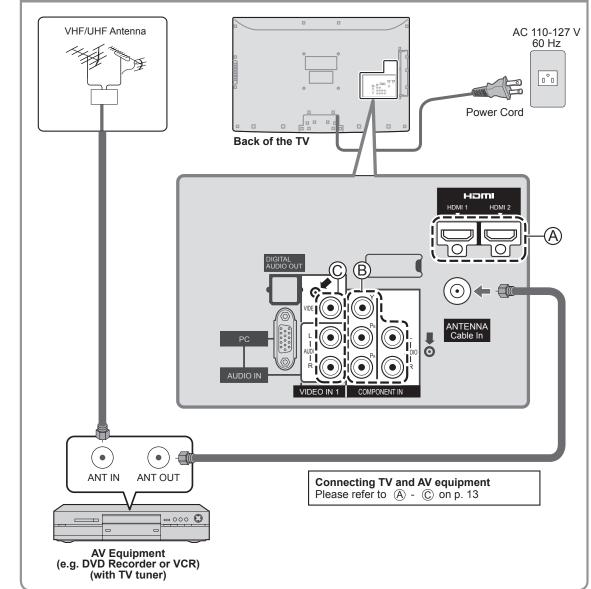


DVD Recorder

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

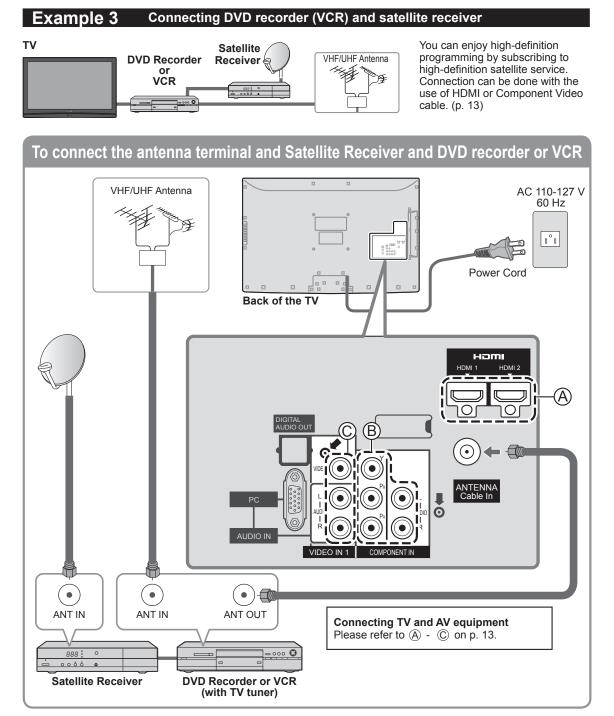
Connection can be made with the use of an RF cable and Composite Video/S Video cable. (p. 13)





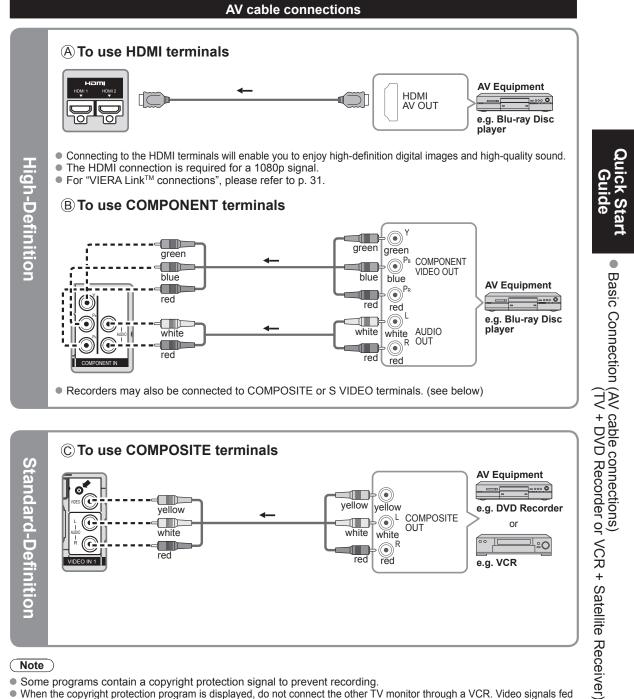
[•] Not all cables and external equipment shown in this book are supplied with the TV.

Basic Connection (Continued)



Note

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



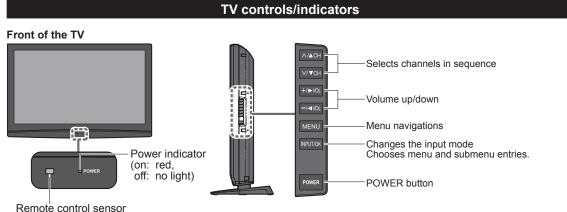
Note

• Some programs contain a copyright protection signal to prevent recording.

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

13

Identifying Controls



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

Note

The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.

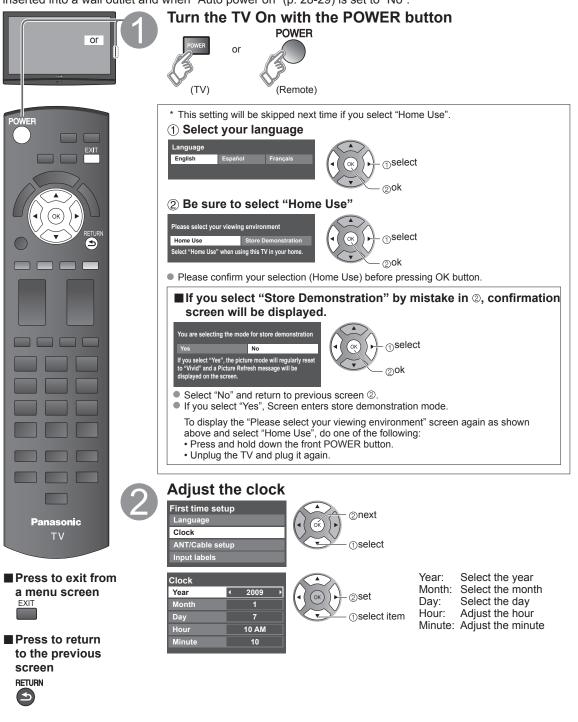
Do not place any objects between the TV remote control sensor and remote control.

| | Remote control | |
|--|---------------------------|--|
| | | Closed Caption On/Off (p. 17) |
| Switches TV On or Off (Standby) | | Selects Audio Mode for TV viewing (p. 17) |
| Changes the input mode (p. 22) | | — Exits from menu screen |
| | VIERA TOOLS | —— Displays Main Menu (p. 26) |
| VIERA Link menu (p. 34-35) | IFR S | Displays VIERA TOOLS (p. 19) |
| | | —— Viewing from SD Card (p. 20-21) |
| Displays Sub Menu (p. 17, 28) | | Selects/OK/Change |
| Colored buttons ———————————————————————————————————— | | Returns to previous menu |
| (for example, p. 16, 20, 34) | + ^ | Channel up/down |
| Volume up/down | | —— Displays or removes the channel |
| Sound mute On/Off | MUTE FORMAT INFO FAVORITE | banner (p. 18) |
| Changes aspect ratio (p. 18) | | Operates the Favorite channel list function. (p. 18) |
| | | Numeric keypad to select any channel |
| | | (p. 17) or press to enter alphanumeric input in menus. |
| Switches to previously viewed channel ——— or input modes. | | (p. 16, 22, 34, 36, 38, 41, 42) |
| | | —— Use for digital channels. (p. 17) |
| External equipment operations | | |
| · · · · | | |
| | Panasonic ⊤∨ | |

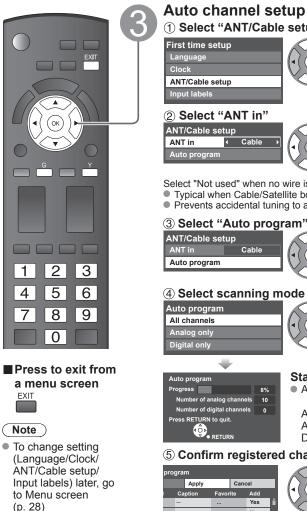
First Time Setup

FXIT

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 28-29) is set to "No".



First Time Setup (Continued)



About broadcasting systems

Analog (NTSC): Conventional broadcasting Digital (ATSC):

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

IDMI 2

HDMI 3

Video 1

Video 2

PC

GAME

or

1 2 3

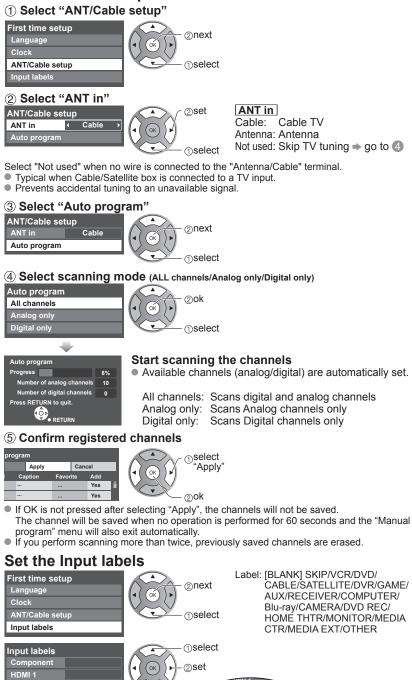
4 5 6

7 8 9

0

Switches Input mode alphabet to

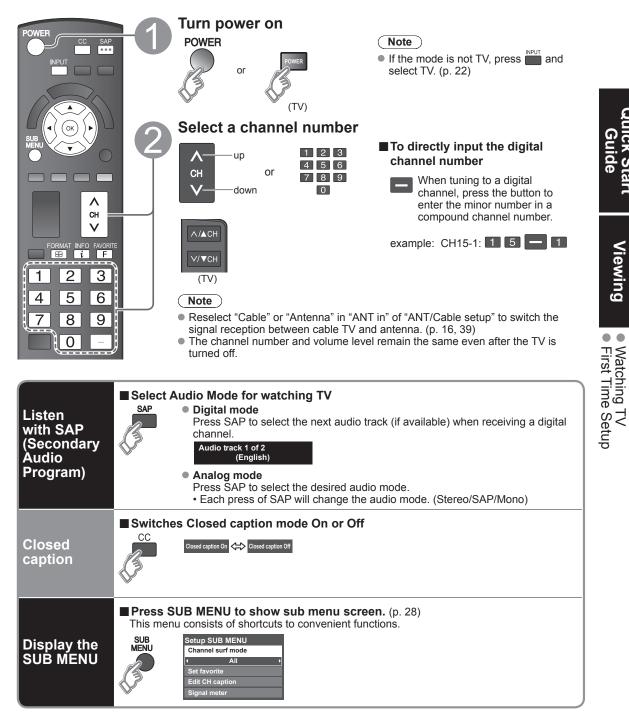
numeric



Watching TV

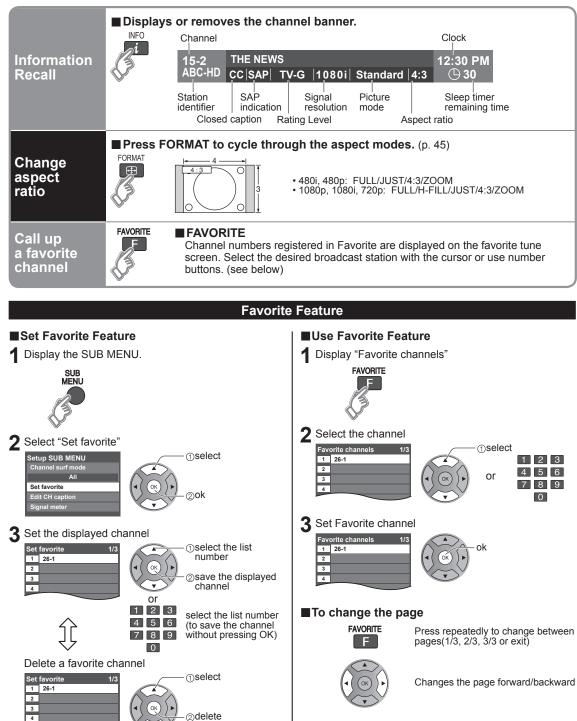
Connect the TV to a cable box/cable, set-top-box, satellite box or antenna cable (p. 10-13)

To watch TV and other functions



Watching TV (Continued)

Other Useful Functions (Operate after 2)



(while holding down)

Using VIERA TOOLS

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

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

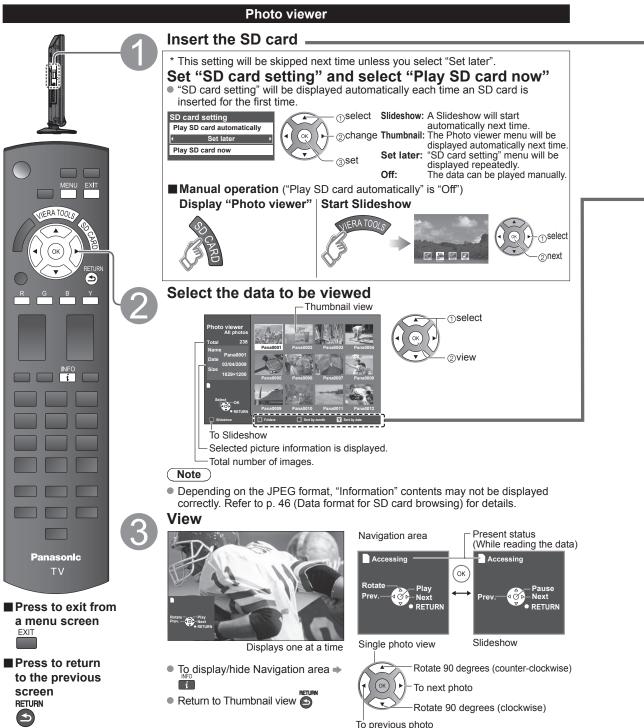


Press to exit from a menu screen

Press to return to the previous screen RETURN

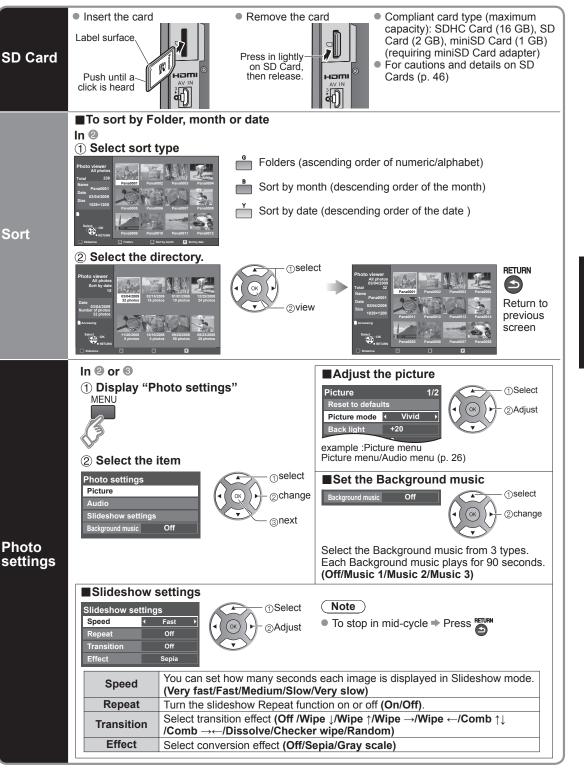
Viewing from an SD Card

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



VIERA IMAGE VIEWER

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



EXIT

RETURN

(5)

Viewing from SD

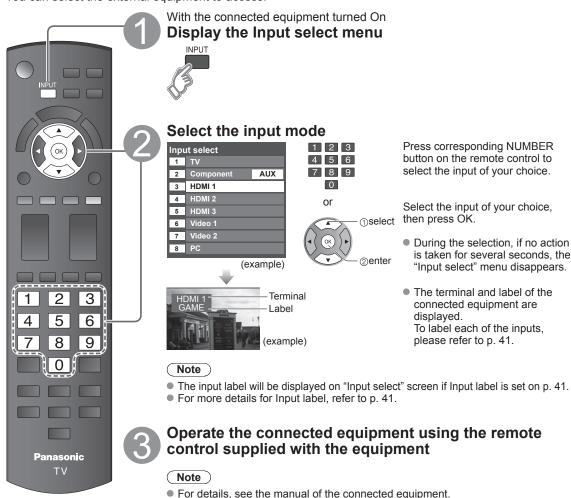
Card

Watching Videos and DVDs

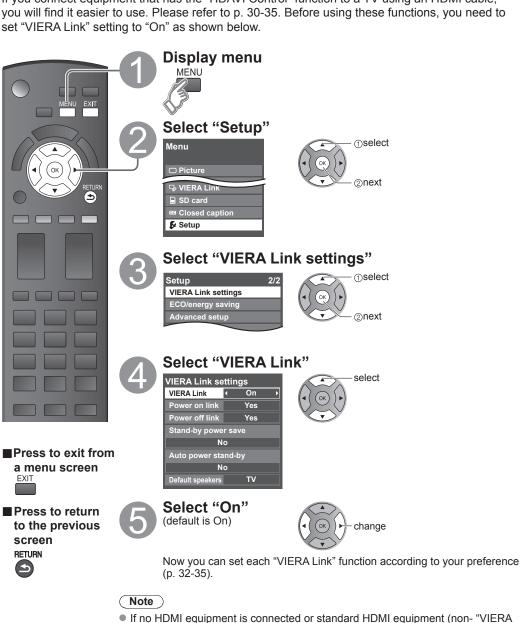
If you have applicable equipment connected to the TV, you can watch videos and DVDs on the TV's screen.

Input Select

You can select the external equipment to access.







- Link") is used, set it to "Off".
- For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

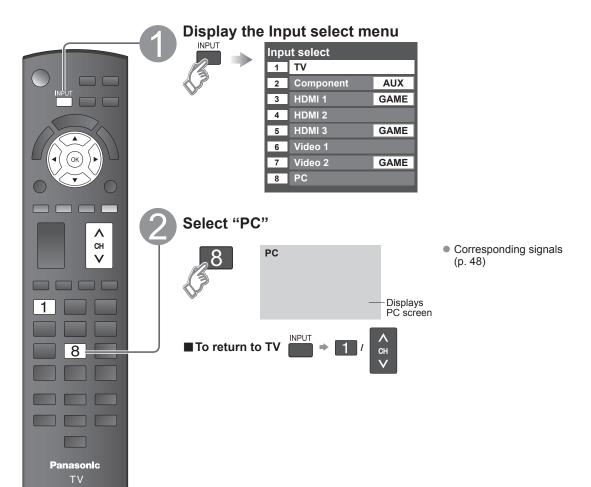
VIERA Link[™] Setting

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

Viewing

Displaying PC Screen on TV

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



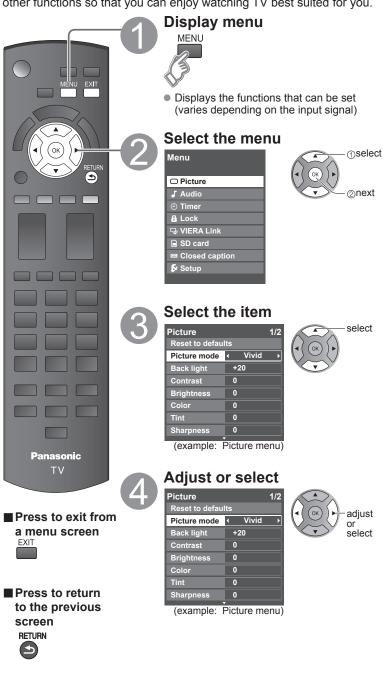
■ PC menu setting (change as desired) ■ Making settings → "How to Use Menu Functions" ① to ④ (p. 26)

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

Audio menu (p. 26)

How to Use Menu Functions

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



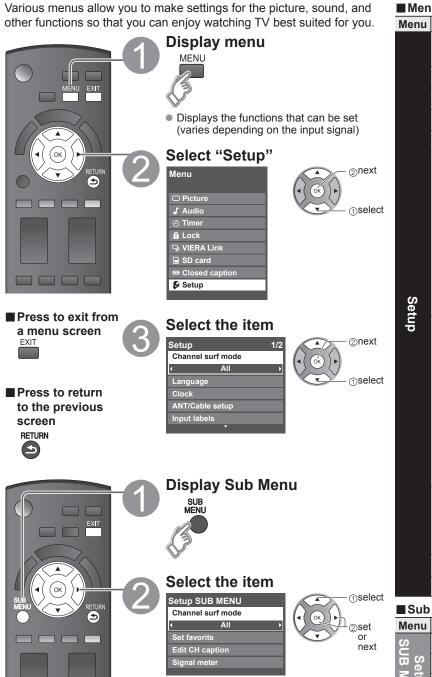
Menu list

| Menu | | | |
|--------------------|------------------|--|--|
| | Rese | et to defaults | |
| | Pictu | ire mode | |
| | Back | light | |
| | | rast, Brightness, r, Tint, Sharpness | |
| | Colo | r temp. | |
| | Colo | r mgmt. | |
| | x.v.C | olor | |
| _ | A.I. p | picture | |
| р <mark>і</mark> с | Video NR | | |
| tur | Zoor | n adjustments | |
| Ð | PC a | djustments | |
| | | 3D Y/C filter | |
| | Adv | Color matrix | |
| | anc | MPEG NR | |
| | ëd | Black level | |
| | Advanced picture | HD size | |
| | | H size | |
| | Rese | t to defaults | |
| | Bass | ; | |
| | Treb | le | |
| | Bala | nce | |
| | | A.I. sound | |
| Au | ⊳ | Surround | |
| Idio | dva | Bass boost | |
| | nce | Volume leveler | |
| | Advanced audio | TV speakers | |
| | dio | HDMI 1 in HDMI 2 in HDMI 3 in | |
| Timer | Slee | p, Timer 1-5 | |
| Lock | | | |
| VIERA Link | Stop VIER | ord now recording A Link control ker output | |
| SD card | SD c | ard | |
| Closed caption | Clos | ed caption | |

| Adjustments/Configurations (alterna | tives) | |
|--|------------------------------|--|
| Adjustments/Configurations (alterna Resets all picture adjustments to factory default settings except for "Advanced pictu | , | Reset to defaults |
| Basic picture mode (Vivid/Standard/Cinema/Custom) (p. 47) | Picture mode Vivid | |
| | Back light +20 | |
| Adjusts luminance of the back light. Adjusts color, brightness, etc. for each picture mode to suit your taste | Contrast +20 | Tint 0 |
| Display range | Brightness 0 | Sharpness 0 |
| Contrast/Brightness/Color/Sharpness: 0 - 100 Tint: -50 - +50 | Color 0 | |
| Selects a choice of Cool(blue), Normal, or Warm(red) color. (Cool/Normal/Warm) | | Color temp. Cool |
| On: Enhances green and blue color reproduction, especially outdoor scenes. (On/ | Off) | Color mgmt. On |
| Auto: Provide the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI | input of this TV. (Off/Auto) | x.v.Color Auto |
| Controls dark areas without affecting the black level or brightness in the overall pict | ure (On/Off) | A.I. picture On |
| Reduces noise, commonly called snow. Leave it off when receiving a strong signal. | (Off/On) | Video NR Off |
| Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 45) | | Zoom adjustments |
| Sets PC display (p. 24) | | PC adjustments |
| Minimizes noise and cross-color in the picture. (On/Off) | | 3D Y/C filter On |
| Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition HD: High Definition | | |
| SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. | | Color matrix SD |
| Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) | | MPEG NR Off |
| Selects Dark or Light. Valid only for external input signals. (Dark/Light) | | Black level Light |
| Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% | signal. (Size 1/ Size 2) | HD size Size1 |
| Adjust horizontal display range to reduce noise of both side edges of an image. (Siz Size 2: Adjust image size according to aspect mode for reducing noise. (p. 48) | ze 1/Size 2) | H size Size 1 |
| Resets Bass, Treble and Balance adjustments to factory default settings. | | Reset to defaults |
| Increases or decreases the bass response. | | Bass 0 |
| Increases or decreases the treble response. | | Treble 0 |
| Emphasizes the left / right speaker volume. | | Balance 0 |
| Equalizes overall volume levels across all channels and external inputs. (On/Off) | | A.I. sound On |
| Enhances audio response when listening to stereo. (On/Off) | | Surround Off |
| Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "Off" is set in "TV speakers". | | Bass boost Off |
| Minimizes volume disparity after switching to external inputs. | | Volume leveler 0 |
| Switch to "Off" when using external speakers (On/Off) • "A.I. sound", "Surround", "Volume leveler" and "Bass boost" do not work if "Off" is | selected. | TV speakers On |
| The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signa (Digital/Component/Video 1/Video 2) | I) | HDMI1 in Digital HDMI2 in Digital HDMI3 in Digital |
| The TV can automatically turn On/Off at the designated date and time (p. 42) | | |
| Locks the channels and programs (p. 36) | | |
| [Record now/Stop recording] Records programs on the recorder immediately with the TV's remote control (p. 34- [VIERA Link control] Selects equipment to access and operate. (Recorder/Home theater/Player/Camco [Speaker output] Selects an audio output. (Home theater/TV) (p. 34-35) • VIERA Link menu is accessible directly by pressing the VIERA Link button on the | order/LUMIX) (p. 34-35 | (p. 34) |
| Displays SD card data (p. 20-21) | | SD card |
| | | |
| Displays subtitles (Closed caption) (p. 40) | | Closed caption |

• In AV mode, the Audio menu and Setup menu give fewer options. • Bass boost sound feature does not work when using headphones.

How to Use Menu Functions



Menu list Item Channel surf mode Language Clock ANT/Cable setup Input labels **VIERA** Link VIERA Link settings Power on link Power off link Stand-by power save Auto power stand-by Default speakers Power save ECO/energy saving No signal for 10 minutes No activity for 3 hours Advanced setup Auto power on Play SD card automatically About Reset to defaults

Sub menu list Menu Item Channel surf mode Set favorite Edit CH caption Signal meter

(Continued)

| Adjustments/Configurations (alternatives) | |
|---|--|
| Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) • Favorite: Only channels registered as FAVORITE (p. 18) | Channel surf mode |
| Selects the screen menu language (p. 15) | Language |
| Adjusts the clock (p. 15) | Clock |
| Sets channels (p. 39) | ANT/Cable setup |
| Selects the terminal and label of the external equipment (p. 41) | Input labels |
| Controls equipment connected to HDMI terminals (p. 32) (On/Off) "Power off link", "Power on link", "Stand-by power save", "Auto power stand-by" and "Default speakers" cannot be selected if "Off" is set. | VIERA Link On |
| Sets "Power on link" of HDMI connection equipment (p. 32) (Yes/No) | Power on link Yes |
| Sets "Power off link" of HDMI connection equipment (p. 32) (Yes/No) | Power off link Yes |
| Set "Stand-by power save" of HDMI connection equipment. (p. 32) (No/Yes) | Stand-by power save |
| Set "Auto power stand-by" of HDMI connection equipment. (p. 32) (No/Yes (with reminder)/Yes (no reminder) | Auto power stand-by ∢ No |
| Selects the default speakers (p. 32) (TV/Theater) | Default speakers TV |
| Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. (Standard/Saving) | Power save Standar |
| To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Enable/Disable) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode" or Digital channel. "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal for 10 minutes". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. | No signal for 10 minute ५ Enable |
| To conserve energy, the TV automatically turns off when no operation of remote or side panel key continues for more than 3 hours. (Enable/Disable) Note • Not in use when setting "Auto power on", "On/Off Timer or PC input display. • "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No activity for 3 hours". • The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. | No activity for 3 hours |
| Turns TV On automatically when the cable box or a connected device is turned On. (No/Yes) TV power cord must be plugged into this device. TV comes on every time the power is restored. • The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 42) | Auto power on No |
| Set "Thumbnail" or "Slideshow" to play back SD cards automatically. (Slideshow/Thumbnail/Set later/Off) | Play SD card automatica ∢ Set later |
| Displays TV version and software license. | About |
| Performing Reset will clear all items set with Setup, such as channel settings. (p. 38) | Reset to defaults |

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

Advanced

VIERA Link[™] "HDAVI Control[™]"*

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

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

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

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

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

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

HDMI cable

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

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

VIERA Link[™] Connections

| Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder |
|--|
| (DIGA), RAM theater, or Player theater system. |
| Refer to page 32-35 for Setup Menu settings and additional |
| control information. |
| Optional HDMI and/or optical cables are not included. |

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

Note

HDMI 1 is recommended.

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

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

- For DVD recorder (DIGA): Connect with HDMI cable
- For RAM theater and Player theater:

Connecting this unit to a DVD recorder (DIGA) and AV amp When using a "VIERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.

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

Back of the TV Digital Audio out \odot ۲ \bigcirc \odot \bigcirc \bigcirc or 0 HDMI cable HDMI (AV OUT) HDM HDMI HDMI HDMI (AV OUT) (AV/ OUT AV IN (AV OUT AV amp with DVD recorder (DIGA) Home Theater HD Camcorder DVD recorder (DIGA) VIERA Link function with VIERA Link Systems with VIERA with VIERA Link with VIERA Link function Link function function function

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

Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

Setting of this unit after connection

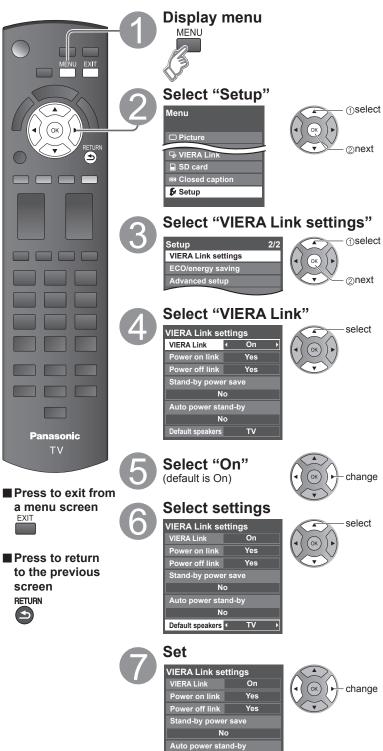
After making connections as shown above, set "VIERA Link" (under "VIERA Link settings") to "On" using the Setup menu. (p. 23, 32-35).

Note

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

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

VIERA Link[™] "HDAVI Control[™]"*



No

Default speakers
 Theater

| Automatic Input Switching | At the start of the DIGA, Player theater, or F based on the playback equipment. ● For the RAM theater, the speakers autom If using the DIGA operation, the TV's inpu | atically swi |
|---|--|---|
| Power on link | When "Yes" is selected (p. 29), TV is turned VIERA Link compatible equipment is initially | |
| Power off ink | When "Yes" is selected (p. 29) and the TV is automatically turned off. DIGA (Panasonic DVD Recorder) will not Caution: The TV remains on even if the VI | turn off if it |
| Stand-by power save (for "HDAVI Control 4" (with quick start mode)) | Condition Power off link: Yes, Stand-by power save The equipment has "HDAVI Control 4 (wit When TV is turned off, all connected VIERA automatically under above conditions. * Minimum power consumption of standby | th quick sta Link comp |
| tand-by or "HDAVI ontrol 2 or uter") | Condition Auto power stand-by: Yes, The equipment has "HDAVI Control 2 or la [Examples of timing for operation] When the input is switched from HDMI. When the "Speaker output" is changed for the "Speaker output" is changed for the statement of the stateme | ater" (for av |
| | The connected VIERA Link compatible equi | pment will |
| Default speakers | "TV" is the default setting. To set the Home setting from "TV" to "Theater". Sound will be | |
| Dne-touch heater blayback | If the "ONE TOUCH PLAY" key is pressed of sequence of operations is performed autom ① Home Theater power switches On, and p ② TV power switches On, and the playback ③ Audio is muted on the TV and switches to | atically. blayback be screen is b |
| | The following information about the TV setti theater/Player) that has "HDAVI Control 3 or | |
| | Transmittable data | Recorde |
| | On Screen Display Language setting (English/Español/Français) | 0 |
| Providing | ② Panel Aspect Ratio (16:9 fixed) | 0 |
| the setting information | ③ Closed caption information (Mode/CC type/Digital setting) | 0 |
| (for "HDAVI Control 3 or | Channel information (Input signal/Channel list/Caption information) | 0 |
| later") | Note | |
| | There is a possibility that all the GUI lang function connected to TV with HDMI cable of equipment the setting may or may not For more details on the external equipme | e. Dependi be applied. |
| | [For Recorder] You cannot operate other functions while tra When you turn off this unit, the transmission | |
| Automatic lip- | | |
| sync function | Minimizes lip-sync delays between the pictu | ire and aud |

(for "HDAVI

Control 3 or later")

(Continued)

| At the start of the DIGA, Player theater, or F based on the playback equipment. • For the RAM theater, the speakers autom If using the DIGA operation, the TV's inpu | atically switcl | h to the thea | ter system. | | | | |
|---|---|-------------------|--------------------------------|---|--|--|--|
| When "Yes" is selected (p. 29), TV is turned on automatically and switches to the appropriate HDMI input VIERA Link compatible equipment is initially turned on and Play mode is selected. When "Yes" is selected (p. 29) and the TV is turned off, all connected VIERA Link compatible equipment is automatically turned off. DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode. Caution: The TV remains on even if the VIERA Link compatible equipment is turned off. | | | | | | | |
| | | | | | | | |
| Condition Auto power stand-by: Yes, The equipment has "HDAVI Control 2 or la [Examples of timing for operation] When the input is switched from HDMI. When the "Speaker output" is changed f | | | | nnected with HDMI cable. | | | |
| The connected VIERA Link compatible equi | pment will be | turned off a | utomatically v | vhen not in use. | | | |
| "TV" is the default setting. To set the Home setting from "TV" to "Theater". Sound will be | | | | | | | |
| If the "ONE TOUCH PLAY" key is pressed of sequence of operations is performed autom ① Home Theater power switches On, and p ② TV power switches On, and the playback ③ Audio is muted on the TV and switches to | atically. blayback begi screen is dis | ns. splayed. | anasonic Ho | me Theater system, the follo | | | |
| The following information about the TV setti theater/Player) that has "HDAVI Control 3 o | ngs can be tr r later" functio | ansmitted to | each piece o I to a TV with | of equipment (Recorder/Hom HDMI cable. | | | |
| | | | | | | | |
| Transmittable data | Recorder | Home theater | Player | | | | |
| Transmittable data ① On Screen Display Language setting (English/Español/Français) | Recorder | | Player O | | | | |
| ① On Screen Display Language setting | | theater | - | | | | |
| ① On Screen Display Language setting (English/Español/Français) ② Panel Aspect Ratio | 0 | c theater | 0 | | | | |
| On Screen Display Language setting (English/Español/Français) Panel Aspect Ratio (16:9 fixed) Closed caption information | 0 | theater O O | 0 | | | | |

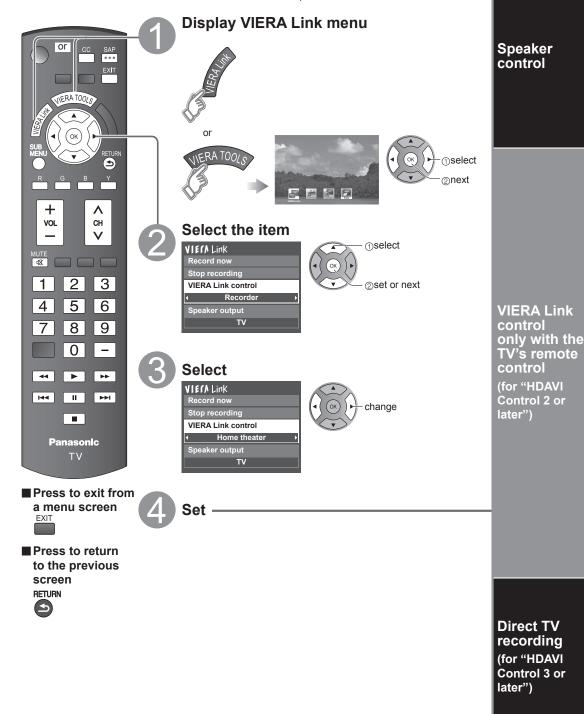
tion, please refer to the operating manuals for the equipment.

TV's information above except Power On/Off key operation. errupted (only when you are transmitting ④ Channel information).

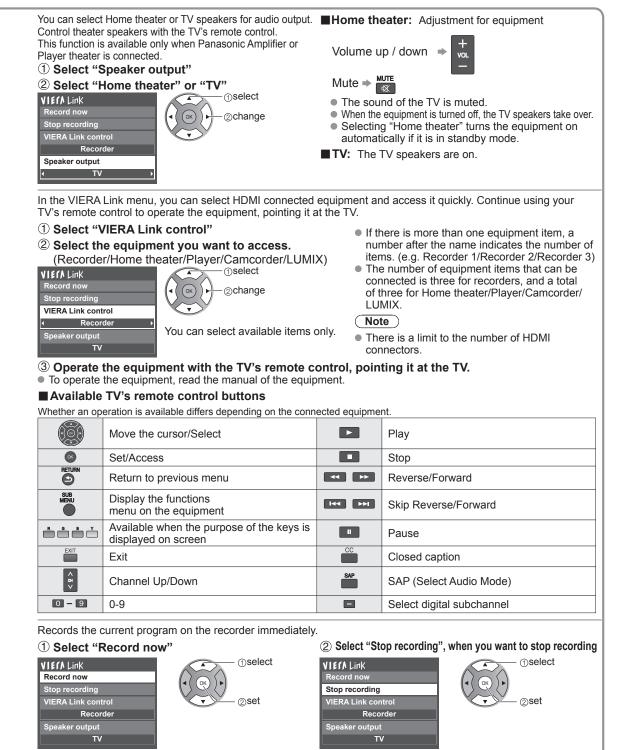
dio when you connect to a Panasonic theater system or Amplifier.

VIERA Link[™] "HDAVI Control[™]"

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu. For more details on the "HDAVI Control" function, refer to p. 30



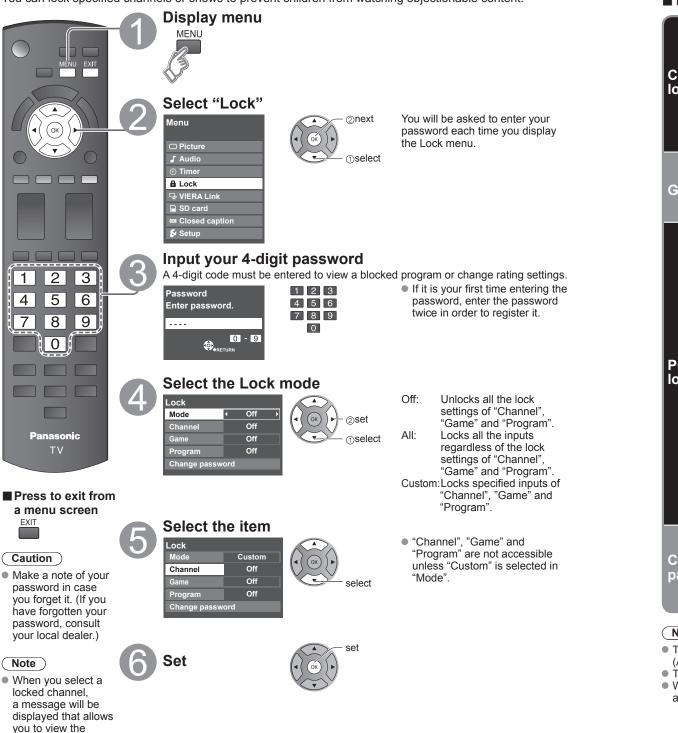
(Continued)



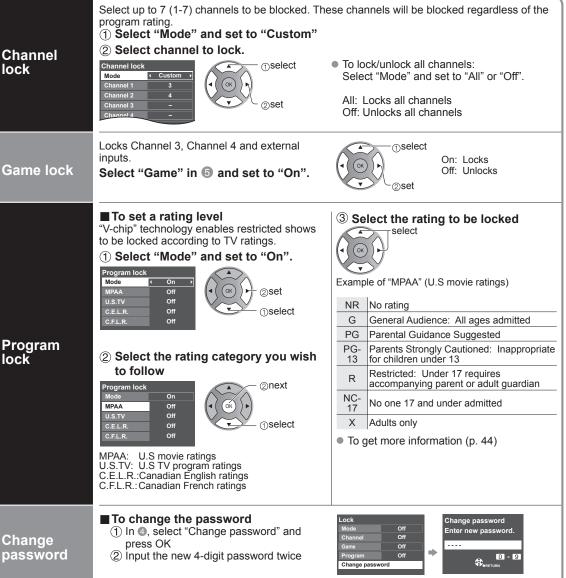
For optimal recording, the settings of the recorder might
 Recording will not stop automatically when the be required. For details, read the manual of the recorder.
 program is finished.

Lock

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



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



Note

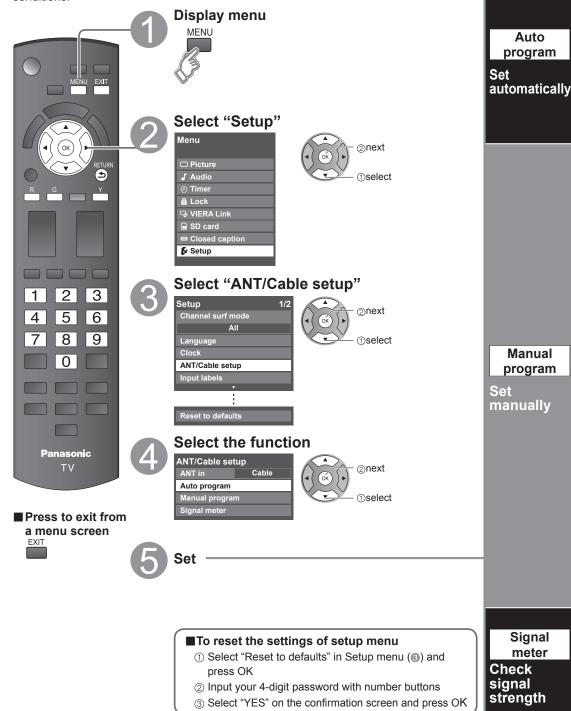
- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also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

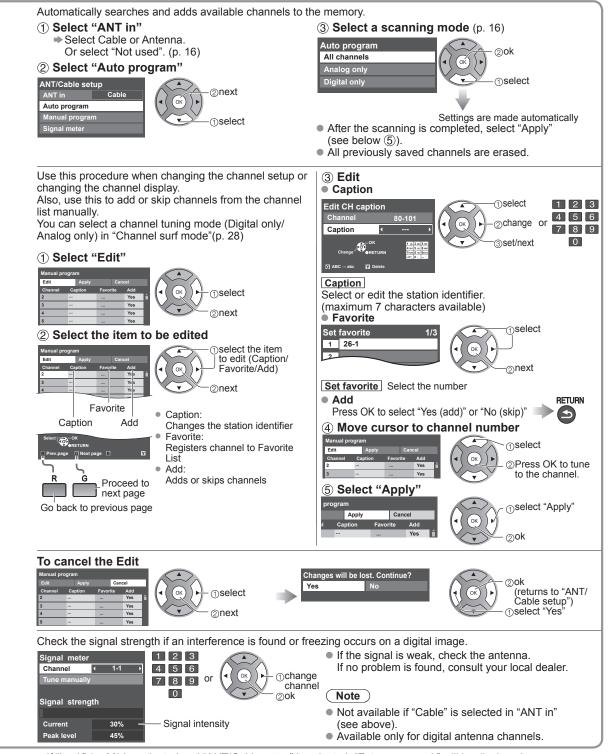
Lock

channel if you input

Editing and Setting Channels

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



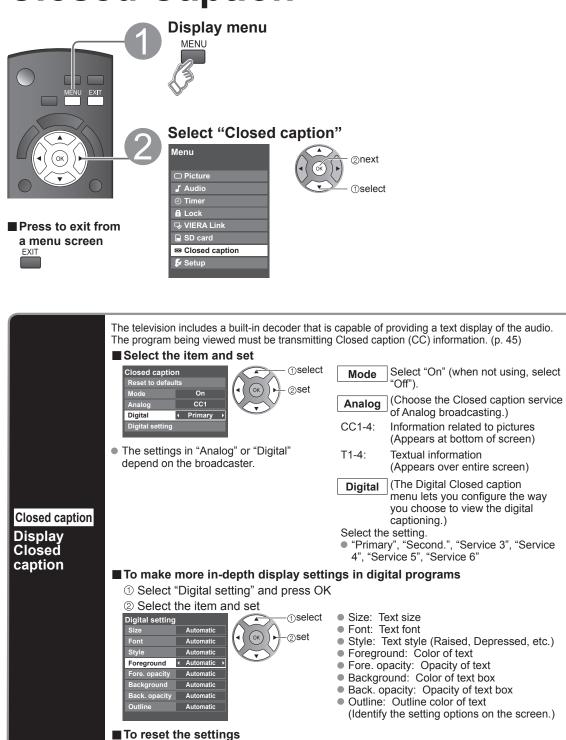


If "Lock" (p. 36) is activated and "ANT/Cable setup" is selected, "Enter password." will be displayed.

Editing and Setting Channels

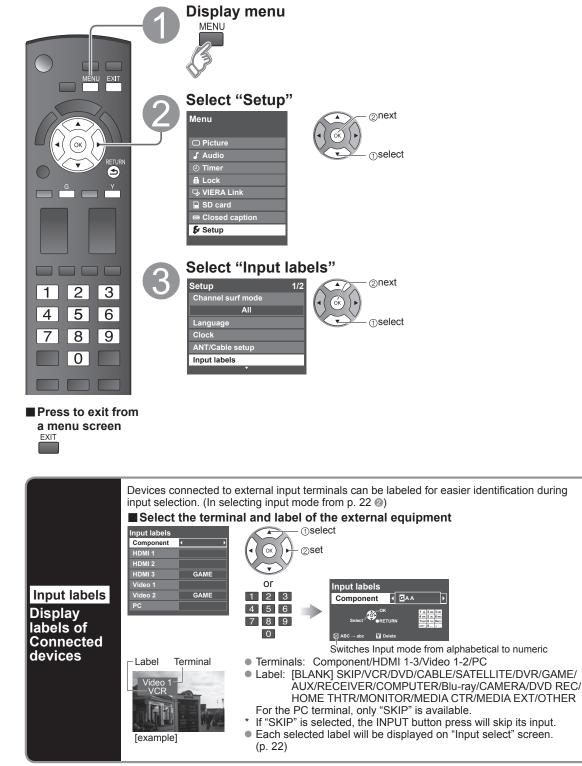
Advanced

Closed Caption



Select "Reset to defaults" and press OK

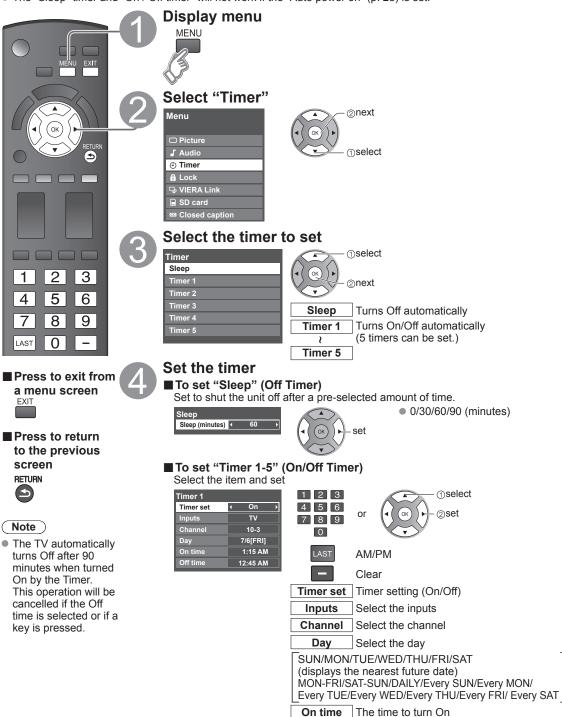
Input Labels



Advanced

Using Timer

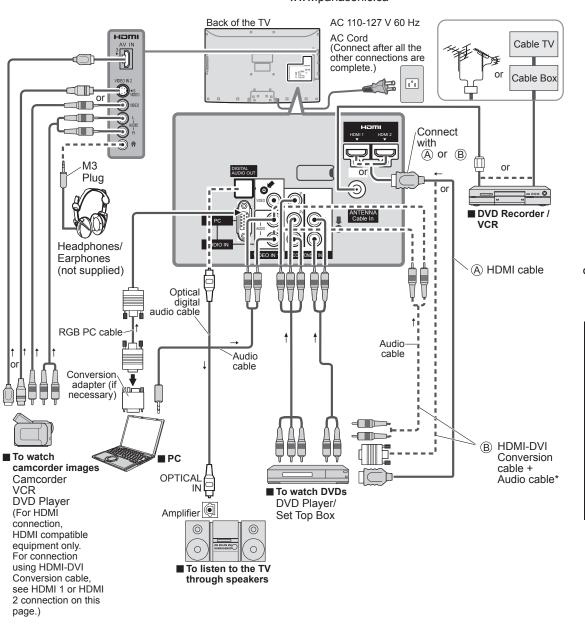
The TV can automatically turn On/Off at the designated date and time.
The Clock must be set before On time/Off time settings. (p. 15)
The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 28) is set.



Off time The time to turn Off

Recommended AV Connections

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



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

Ratings List for Lock

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

U.S. MOVIE RATINGS (MPAA)

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

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

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

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

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

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

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

| E | Exempt - Exempt programming. | | | |
|--|--|--|--|--|
| G General - Programming intended for audience of all ages. Contains no violence, or the violence content 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 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. | | | | |
| | | 18 ans+ Programming restricted to adults. Contains constant violence or scenes of extreme violence | | |

Caution

44

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

Technical Information

Closed caption (CC)

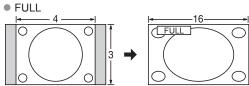
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to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

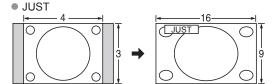
Aspect Ratio (FORMAT)

screen.

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 18)

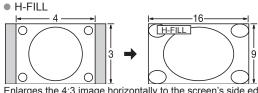
(e.g.: in case of 4:3 image)



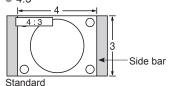


Stretches to justify the 4:3 image to the four corners of the

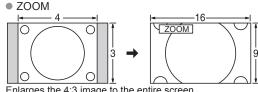
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)



displaying it for a long time.)



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



Note • 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9): FULL, JUST, 4:3 or ZOOM • 1080p / 1080i / 720p:

(Note that "Image retention" of the side bar may occur from

FULL, H-FILL, JUST, 4:3 or 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. 26-27)

② V-position: Vertical position adjustment
③ V-size: Vertical size adjustment





● To reset the aspect ratio ➡ (OK)

Technical Information (Continued)

Data format for SD Card browsing

| Photo: | Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards |
|----------------------------|--|
| Data format: | Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0) |
| Max. number of files: | 9,999 |
| Image resolution: | 160 x 120 to 10,000,000 |
| * DCF (Design rule for car | nera file system): A Japan Electronics and Information Technology Industries Association's standard ** EXIF (Exchangeable Image File Format |
| Caution | |
| A JPEG image modified with | n a PC may not be displayed. |

Partly degraded files might be displayed at a reduced resolution.

(Note

Folder structure viewed in PC

Created automatically

P1000002.JPG
 P1000003.JPG
 Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
 P100004.JPG

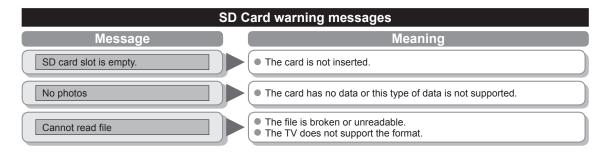
• The folder and file names may be different depending on the digital camera used.

 For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.jp/support/global/cs (This site is in English only)

Cautions in handling SD Card:

• Do not remove the card while the unit is accessing data (this can damage card or unit).

- Do not touch the terminals on the back of the card.
- Do not subject the card to high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)



VIERA Link[™] "HDAVI Control[™]"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 30)
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link™ is available for the terminal with the smaller number.
- If you connect equipment that has "HDAVI Control 2 or later" function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 4" is the newest standard (current as of December, 2008) for the HDAVI Control compatible equipment. This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 26) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device. (*2): Enquire at your local digital equipment retailer shop.

Use with a PC is not assumed.

Caution

- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 48.

DIGITAL AUDIO OUT terminals

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

Caution

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

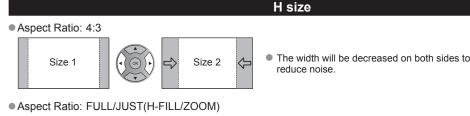
Picture mode

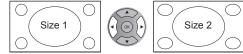
• Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.

- Standard: Recommended for normal viewing conditions with subdued room lighting.
- Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.
 Custom (Photo): Customizes each item according to your taste.

 c): Customizes each item according to your taste. Photo is displayed in JPEG menu.

Technical Information (Continued)





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

See pages 26-27 for more information

Input signal that can be displayed

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

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

Note

Signals other than above may not be displayed properly.

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

PC Input Terminals Connection

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

| Pin No. | Signal Name | Pin No. | Signal Name | Pin No. | Signal Name |
|---------|--------------------|--|--|--|--|
| 1 | R | 6 | GND (Ground) | | NC (not connected) |
| 2 | G | | 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 |
| | 1 2 3 4 | 1 R 2 G 3 B 4 NC (not connected) | 1 R 6 2 G 7 3 B 8 4 NC (not connected) 9 | 1 R 6 GND (Ground) 2 G 7 GND (Ground) 3 B 8 GND (Ground) 4 NC (not connected) 9 NC (not connected) | 1 R 6 GND (Ground) 11 2 G 7 GND (Ground) 12 3 B 8 GND (Ground) 13 4 NC (not connected) 9 NC (not connected) 14 |

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. 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.)

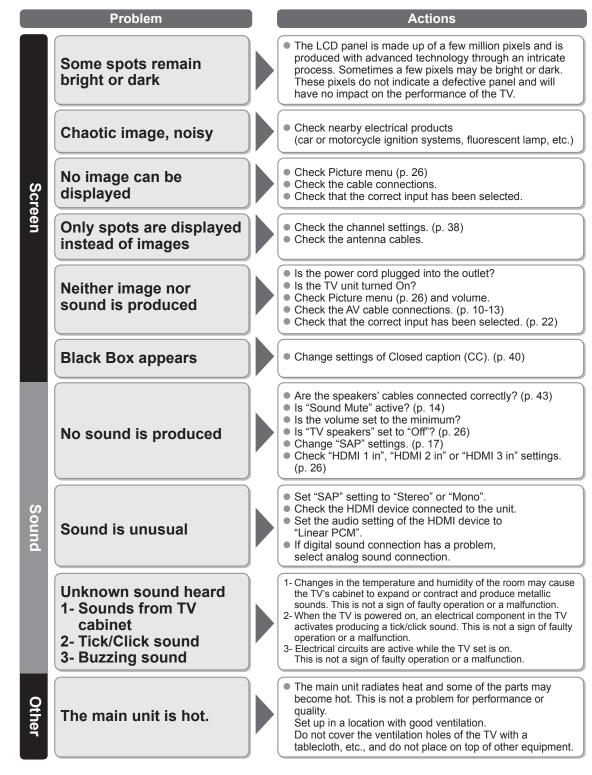
Power cord plug

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

FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 54, 55) For additional assistance, please contact us via the website at: www.panasonic.com/contactinfo www.panasonic.ca White spots or shadow images (noise) **Pictures from external** Check the position, direction, and connection of the antenna equipment are distorted when Interference or the unit is connected via HDMI frozen digital Is the HDMI cable connected properly? channels (p. 31, 43) • Turn Off the TV unit and equipment, then (intermittent sound) turn them On again. • Check an input signal from the equipment. (p. 48) • Üse equipment compliant with EIA/CEA-861/861B. When the channel is changed on Change the direction of antenna an STB that is connected with for digital channels. HDMI, "HDMI" may be displayed Check "Signal meter" (p. 39). + VOL If the signal is weak, check the on the top left of the screen сн V antenna and consult your local dealer. This is not a malfunction. MUTE FORMAT INFO FAVORI The LCD panel moves 1 2 3 **Recording does not** slightly when it is 4 5 6 start immediately pushed with a finger. 7 8 9 • Check the settings of the recorder. For A clattering sound LAST 0 details, read the manual of the recorder. might be heard < H4 II PH This is not a malfunction. The remote control does not work There is some looseness around **Panasonic** ⊤V the panel to prevent the damage to the panel. • Are the batteries installed correctly? (p. 8) Are the batteries new?

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



50

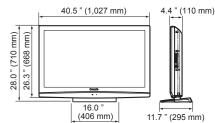
FAQs,

etc

Specifications

| | | TC-L42U12 |
|-----------------------------|--|---|
| | er Source | AC 110-127 V, 60 Hz |
| Power Consumption | Maximum Standby condition | 217 W 0.3 W |
| | Aspect Ratio | 16:9 |
| spla | Visible screen size | 42" class (42.0 inches measured diagonally) |
| Display panel | (W × H × Diagonal) | 36.6 " × 20.6 " × 42.0 " (930 mm × 523 mm × 1,067 mm) |
| ē | (No. of pixels) | 2,073,600 (1,920 (W) × 1,080(H)) [5,760 × 1,080 dots] |
| S | Speaker | 1-way 2 speakers slim under SP System |
| Sound | Audio Output | 20 W [10 W + 10 W] (10 % THD) |
| ٩ | Headphones | M3 (3.5 mm) Jack × 1 |
| PC s | ignals | VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz |
| | nel Capability- C/NTSC (Digital/Analog) | VHF/ UHF: 2 - 69, CATV: 1 - 135 |
| Oper | ating Conditions | Temperature: 32 °F – 95 °F (0 °C – 35°C) Humidity: 20 % – 80 % RH (non-condensing) |
| | VIDEO IN 1 | VIDEO: RCA PIN Type × 1 1.0 V[p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 2 0.5 V [rms] |
| Coni | VIDEO IN 2 | VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) S VIDEO: Mini DIN 4-pin Y: 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] |
| Termi | HDMI 1-3 | TYPE A Connector × 3 • This TV supports "HDAVI Control 4" function. |
| nals | PC | D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) |
| | Card slot | SD CARD slot × 1 |
| | DIGITAL AUDIO OUT | PCM / Dolby Digital, Fiber Optic |
| FEATURES | | 3D Y/C Digital Comb Filter, CLOSED CAPTION, V-Chip HDMI (HDAVI Control 4) Vesa compatible, Photo viewer |
| Dimensions (W × H × D) | Including TV stand | 40.5 " × 28.0 " × 11.7 " (1,027 mm × 710 mm × 295 mm) |
| isions I × D) | TV Set only | 40.5 " × 26.3 " × 4.4 " (1,027 mm × 668 mm × 110 mm) |
| Mass | Including TV stand | 54.1 lb. (24.5 kg) NET |
| SS | TV Set only | 46.3 lb. (21.0 kg) NET |
| | • | |

[TC-L42U12]



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

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

Panasonic LCD Televisions Limited Warranty

Limited Warranty Coverage

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

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

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

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

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the LCD panel resulting from viewing fixed images (including, among other things, non-expanded standard 4:3 pictures on wide screen 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, flucture, fully installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

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

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

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

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

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

Note

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

Customer Services Directory (United States and Puerto Rico)

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-877-95-VIERA (958-4372) Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

Accessory Purchases (United States and Puerto Rico)

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

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

WARRANTY SERVICE

For product operation and information assistance, please contact: Our Customer Care Centre: 1-800 #: 1-866-330-0014 Email link: www.vieraconcierge.ca

FOR PRODUCT REPAIRS, please contact Viera Customer Care Agent using the above contact info.

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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