

USA only: This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149.

**Customer's Record**

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

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

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

**Executive Office :**  
Three Panasonic Way, 2F-5, Secaucus, NJ 07094

**Panasonic Canada Inc.**  
5770 Ambler Drive  
Mississauga, Ontario  
L4W 2T3 CANADA

# Panasonic<sup>®</sup>

Model No.

**TH-32LRU60**

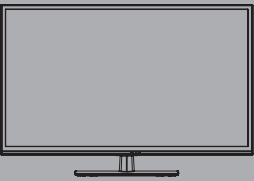
**TH-39LRU60**

**TH-42LRU60**

**TH-50LRU60**

## Owner's Manual

### Hospitality LCD HDTV



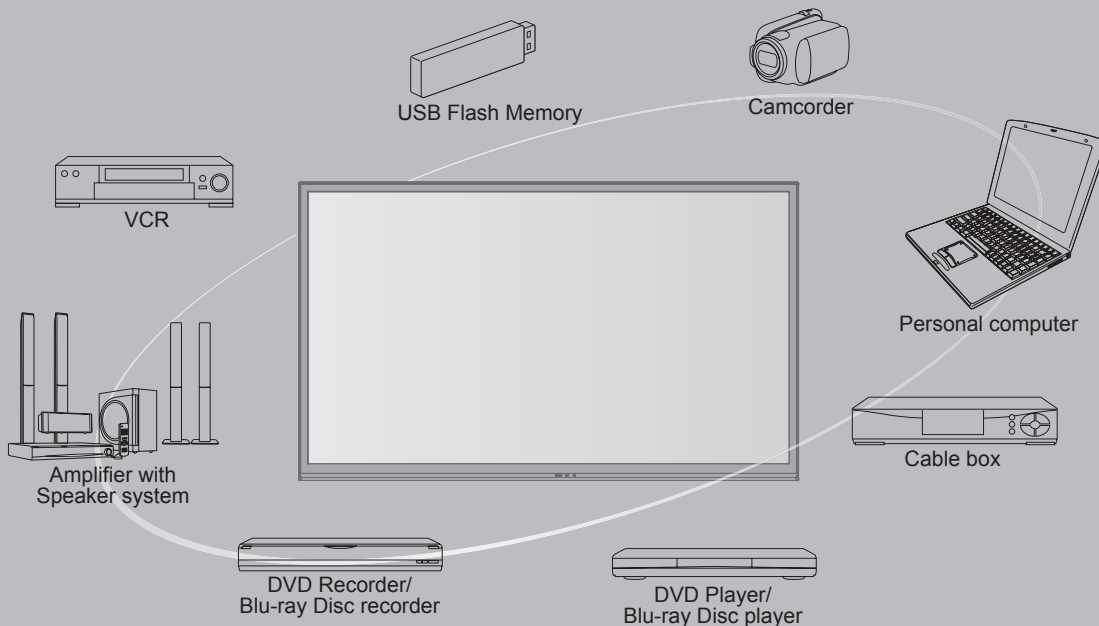
**English**

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

TQB2AA0719E

# Experience an amazing level of multimedia excitement

## Enjoy rich multimedia



### **This product incorporates the following software:**

- (1) the software developed independently by or for Panasonic Corporation,
- (2) the software owned by third party and licensed to Panasonic Corporation,
- (3) open sourced software

The software categorized as (3) are 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.



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Energy Star is a joint program of the US Environmental Protection Agency and the U.S. Department of Energy. It is administered in Canada by Natural Resources Canada (NRC) through the Office of Energy Efficiency (OEE). This program is helping to protect the environment and save money through energy efficient products and practices. This product qualifies for ENERGY STAR in the factory default setting and this is the setting in which energy savings will be achieved. Any modifications to the factory default setting could result in greater energy consumption beyond levels that meet ENERGY STAR qualifications.

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



Pro: Idiom is a trademark of Zenith Corporation.



# Contents

## Please read before using the unit

- Safety Precautions ..... 4

## Quick Start Guide

- Accessories/Optional Accessory ..... 7
- Connections ..... 10
- Identifying Controls ..... 13

Quick Start  
Guide

## Enjoy your TV!

### Basic Features

- Watching TV ..... 14
- Watching content from external devices ..... 15
- Using Media Player ..... 16

Viewing

## Advanced Features

- Guest Menu ..... 17

Advanced

## Support Information

- Ratings List for Lock ..... 18
- Technical Information ..... 19
- Troubleshooting ..... 23
- Care and Cleaning ..... 25
- Specifications ..... 26
- Limited Warranty ..... 28
- LIMITED WARRANTY STATEMENT ..... 29
- Customer Service ..... 30

Support  
Information

# Safety Precautions

	<b>CAUTION</b> <b>RISK OF ELECTRIC SHOCK</b> <b>DO NOT OPEN</b>	
<b>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.</b>		



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.

## Note to CATV System Installer

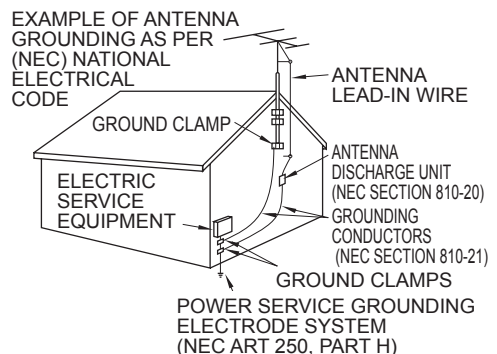
This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as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

## Secure Ventilation

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the LCD TV and to protect it from overheating. These openings must not be blocked or covered. There should be at least 4 inches (10 cm) of space around the TV. The openings should never be blocked by placing the LCD TV on a bed, sofa, rug or other similar surface. This LCD TV should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

## Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 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:
- When the power cord or plug is damaged or frayed.
  - If liquid has been spilled into the LCD TV.
  - If the LCD TV has been exposed to rain or water.
  - If the LCD TV does not operate normally by following the operating instructions.  
Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD TV to normal operation.
  - If the LCD TV has been dropped or the cabinet has been damaged.
  - When the LCD TV exhibits a distinct change in performance - this indicates a need for service.
- 21) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22) **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING. DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET (INCLUDING ON SHELVES ABOVE, ETC.).**
- 23) **WARNING: SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.**
- 24) **WARNING: To prevent the spread of fire, keep candles or other open flames away from this product at all times.**
- 25) **WARNING: Do not place this TV in any medical institutions or locations with medical devices.**  
Radio waves from this TV may interfere with the medical devices and cause accidents due to the malfunction.
- 26) **WARNING: Do not use this TV near any automatic control devices such as automatic doors or fire alarms.**  
Radio waves from this TV may interfere with the automatic control devices and cause accidents due to the malfunction.
- 27) **WARNING: Keep this TV away at least 9 inches (22 cm) from the location where a cardiac pacemaker is implanted.**  
Radio waves from this TV may interfere with the operation of the pacemaker.
- 28) **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).
- 29) **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.
- 30) **CAUTION:** USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 31) **CAUTION:** DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.



**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)

## FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

### FCC Caution:

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

### FCC Declaration of Conformity Model No. TH-32LRU60, TH-39LRU60, TH-42LRU60, TH-50LRU60

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



### ⚠ WARNING

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

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

### TUNE INTO SAFETY:

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

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

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

**The American Academy of Pediatrics discourages media viewing for children younger than two years. For more details, see [www.aap.org](http://www.aap.org).**

# Accessories/Optional Accessory

## Accessories

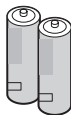
✓ Check you have all the items shown.

### Accessories

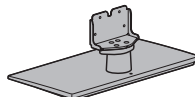
- Remote Control Transmitter
  - N2QAYB000820



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



- Pedestal (For details, see "Installing the TV.")



(image)

- Power cord



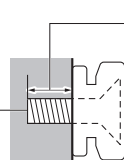
- Simple Owner's Manual

### Optional Accessory

#### Wall-hanging bracket

Please contact a professional installer to purchase the recommended UL qualified wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)



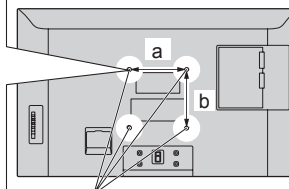
(View from the side)

Depth of screw:  
(for 32") M4

- Minimum: 0.36" (9 mm)
- Maximum: 0.66" (17 mm)
- (for 39") M6
- Minimum: 0.40" (10 mm)
- Maximum: 0.59" (15 mm)

- (for 42") M6
- Minimum: 1.26" (32 mm)
- Maximum: 1.53" (39 mm)
- (for 50") M6
- Minimum: 0.44" (11 mm)
- Maximum: 0.66" (17 mm)

#### Back of the TV



Holes for wall-hanging bracket installation

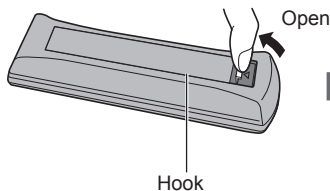
- (for 32")
- a: 7.9" (200 mm)
- b: 3.9" (100 mm)
- (for 39"/42")
- a: 7.9" (200 mm)
- b: 7.9" (200 mm)

- (for 50")
- a: 15.7" (400 mm)
- b: 15.7" (400 mm)

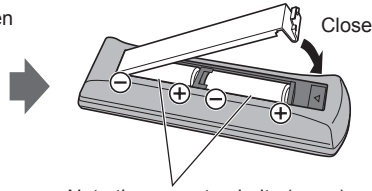
#### WARNING

- Always be sure to ask a qualified technician to carry out set-up.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) that 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.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.
- Incorrect wall-hanging bracket or incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Panasonic disclaims liability for any damage or injury arising from incorrect wall-hanging bracket, incorrect fitting or otherwise failure to follow the above instructions.

## Installing the remote's batteries



Hook



Note the correct polarity (+ or -).

#### Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.

## Installing the TV

#### WARNING

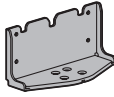
These instructions are for use by qualified service personnel only. To reduce the risk of electric shock and injury do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. To prevent injury, this device must be properly secured to the furniture, which is installed on the floor or wall, in accordance with the installation instructions for this device.



## Accessories

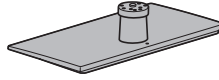
### Bracket (1)

- TBL5ZA34841 (TH-32LRU60)
- TBL5ZA34831 (TH-39LRU60)
- TBL5ZA34811 (TH-42LRU60)
- TBL5ZA34801 (TH-50LRU60)



### Base (1)

- TBL5ZX07281 (TH-32LRU60)
- TBL5ZX07321 (TH-39LRU60/TH-42LRU60)
- TBL5ZX07381 (TH-50LRU60)



### Neck cover (1)

- TBL2AB30081 (TH-32LRU60/TH-39LRU60/TH-42LRU60)



### Assembly screws

- (A)** Screws (4)  
XYN4+F12FJK  
size (M4 × 12)



- (B)** Screws (4)  
● XSS5+12FNK  
size (M5 × 12)  
(TH-32LRU60/  
TH-39LRU60/  
TH-42LRU60)  
● XSS5+15FNK  
size (M5 × 15)  
(TH-50LRU60)



- (C)** Security screw (1)  
THE2AC004J  
size (M4 × 12)



- (D)** Security screw (1)  
THM2AA001N  
size (M5 × 12)  
(TH-32LRU60)



- (E)** Screw (1)  
THEC1509  
size (M3 × 5)  
(TH-32LRU60/  
TH-39LRU60/  
TH-42LRU60)



- (F)** Screws (2)  
XVE6A10FJK  
size (M6 × 10)  
(TH-32LRU60/  
TH-39LRU60/  
TH-42LRU60)



- (G)** Screw (1)  
XTB3+30AFJK  
size (M3 × 30)



- (H)** Security screw (1)  
THT2AA002J  
size (M3 × 30)



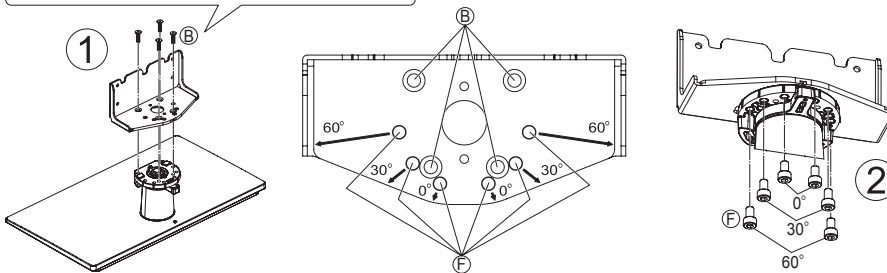
- (I)** Wood screws (4)  
XTS5+20AFJK



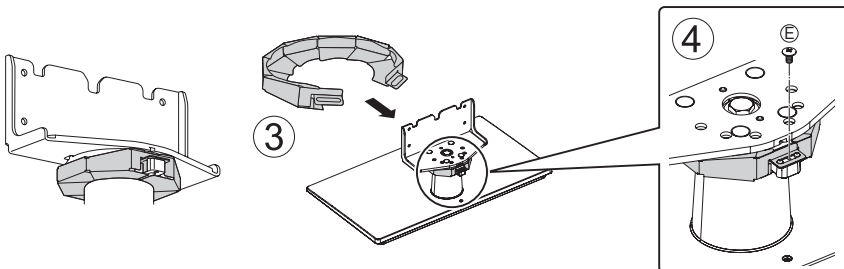
## ■ Assembling the pedestal

- (1) Install securely with assembly screws **(B)**. (Total 4 screws)
- (2) The rotation angle can be set at 0°, 30°, 60° or 90°. Install **(F)** screws to each angle control position. It is not necessary to install **(F)** screws if 90° angle rotation is desired.
  - Tighten screws firmly.

For TH-32LRU60, one of the screws **(B)** can be replaced with a security screw **(D)** if necessary.



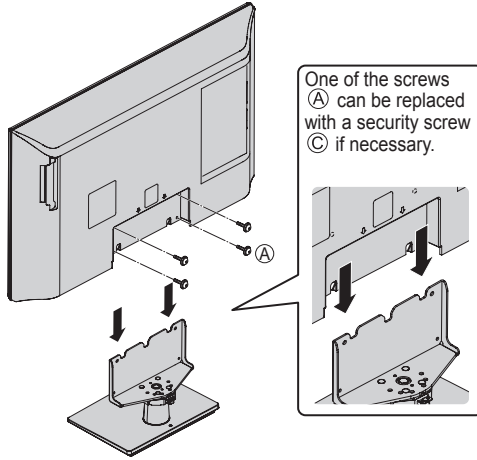
- (3) Install neck cover.
- (4) Install securely with an assembly screw **(E)**.
  - Tighten screws firmly.



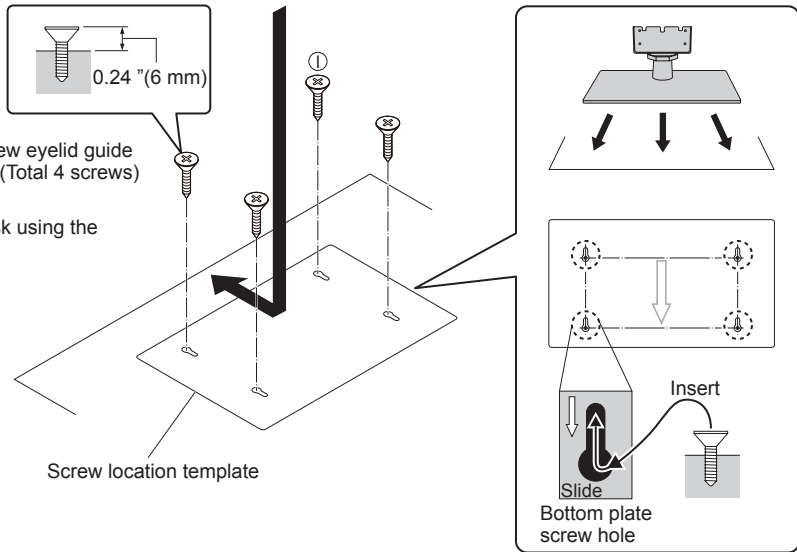
## ■ Set-up

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

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

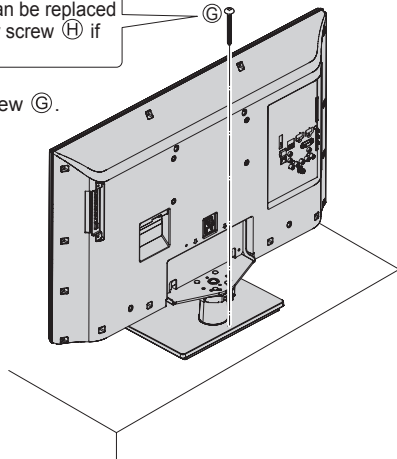


- Install (1) screws through screw eyelid guide as indicated on the template. (Total 4 screws)
- Install the TV firmly to the desk using the hole of bottom plate.



- Install securely with an assembly screw (G).
- Tighten screws firmly.

A screw (G) can be replaced with a security screw (H) if necessary.



**WARNING**

Do not disassemble or modify the pedestal.

- The TV may fall over and become damaged, and personal injury may result.

**Caution**

Do not use any other TV and displays.

- The TV may fall over and become damaged, or cause personal injury.

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.

**Adjust the stand to your desired angle.**

(TH-32LRU60/TH-39LRU60/TH-42LRU60)

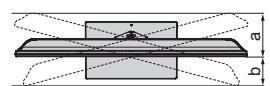
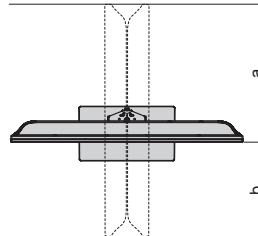
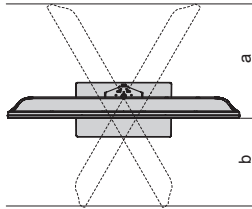
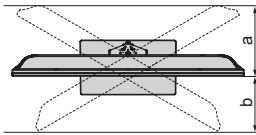
[Rotation angle: 30°]

[Rotation angle: 60°]

[Rotation angle: 90°]

(TH-50LRU60)

[Rotation angle: 15°]



- TH-32LRU60  
a: 9.0" (227 mm) b: 6.8" (171 mm)
- TH-39LRU60  
a: 10.6" (268 mm) b: 8.3" (209 mm)
- TH-42LRU60  
a: 11.6" (293 mm) b: 9.0" (228 mm)

- TH-32LRU60  
a: 14.8" (375 mm) b: 10.8" (273 mm)
- TH-39LRU60  
a: 17.5" (443 mm) b: 13.4" (339 mm)
- TH-42LRU60  
a: 18.8" (477 mm) b: 14.7" (372 mm)

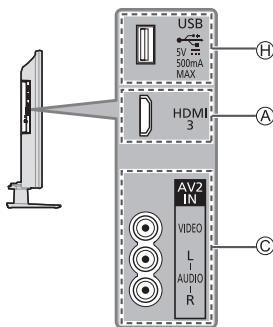
- TH-32LRU60  
a: 18.1" (458 mm) b: 11.2" (283 mm)
- TH-39LRU60  
a: 21.3" (540 mm) b: 14.1" (356 mm)
- TH-42LRU60  
a: 22.8" (577 mm) b: 15.6" (395 mm)

- TH-50LRU60  
a: 8.4" (213 mm) b: 5.7" (143 mm)

# Connections

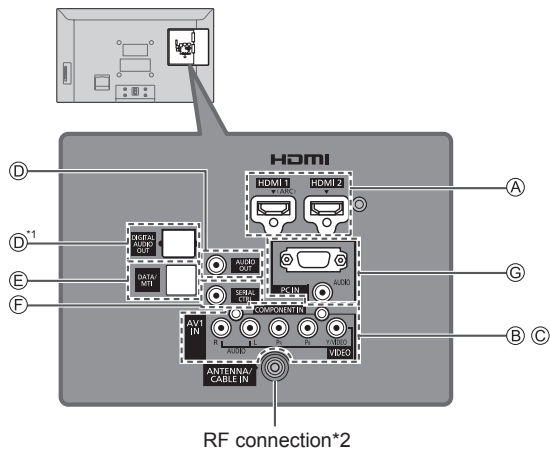
## Connection panel

### Side panel



- (A) HDMI terminals
- (B) COMPONENT terminals
- (C) COMPOSITE terminals
- (D) AUDIO OUT terminal
- (E) DATA/MTI terminal
- (F) SERIAL terminal
- (G) PC terminal
- (H) USB terminal

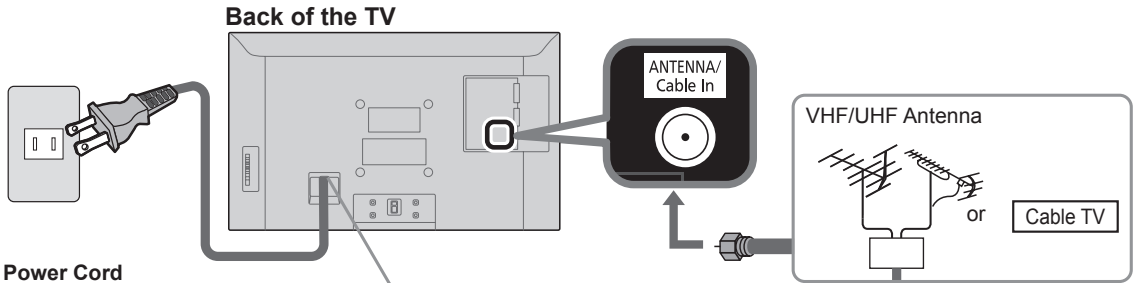
### Back panel



\*1: TH-42LRU60/TH-50LRU60

\*2: For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

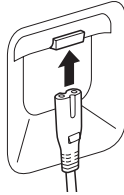
## Connecting Antenna



### Power Cord

Connect after all other connections have been made.

**Insert the power cord plug (included) firmly into place.**



- Disconnect the power cord plug from the wall out first.
- The included power cord is for use with this unit only.

### VHF/UHF Antenna

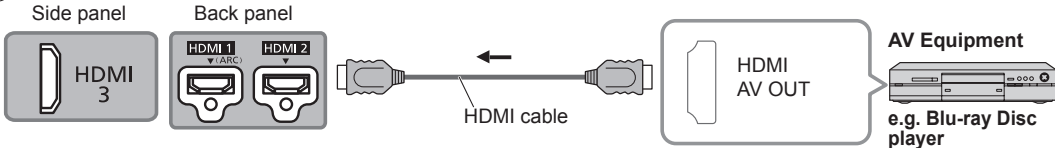
- NTSC (National Television System Committee): Analog television system
- ATSC (Advanced Television Systems Committee): Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround sound audio and interactive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

### Cable

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

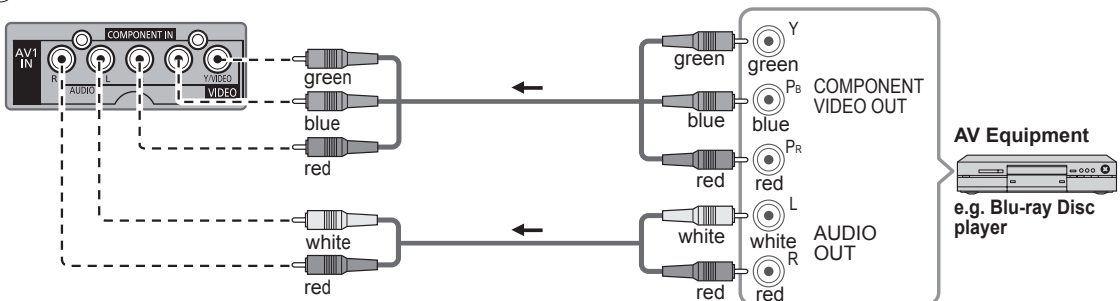
## Example of connections

### A To use HDMI terminals



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

### B To use COMPONENT terminals



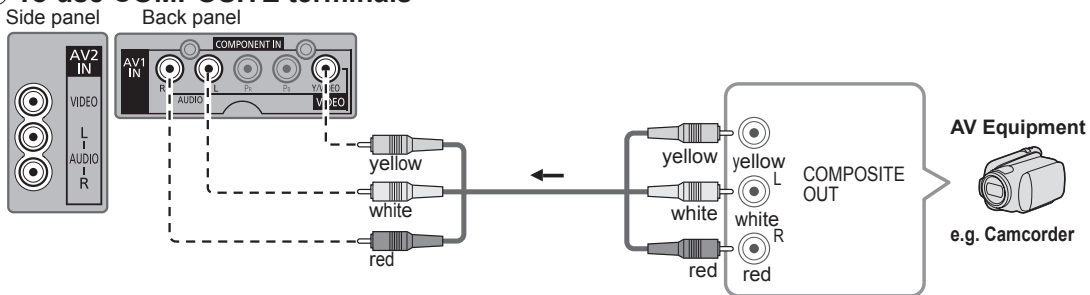
### Note

- Not all cables and external equipment shown in this book are supplied with the TV.
- For more details on the external equipment's connections, please refer to the operating manual for the equipment.

# Connections (Continued)

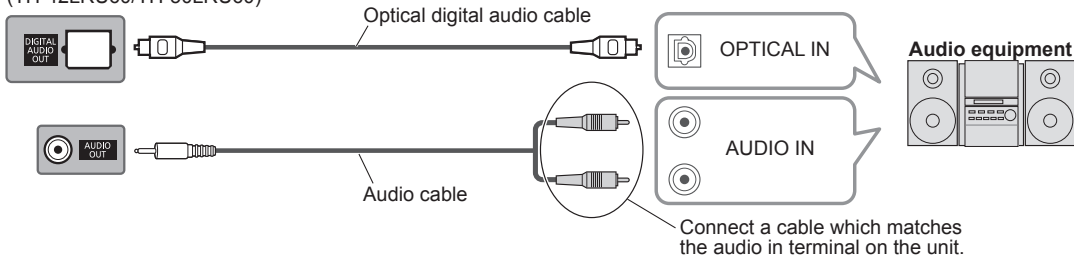
## Example of connections

### C To use COMPOSITE terminals



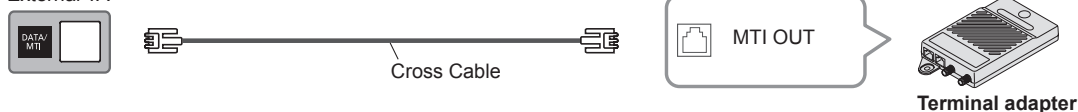
### D To use AUDIO OUT terminals

(TH-42LRU60/TH-50LRU60)



### E To use DATA/MTI terminal

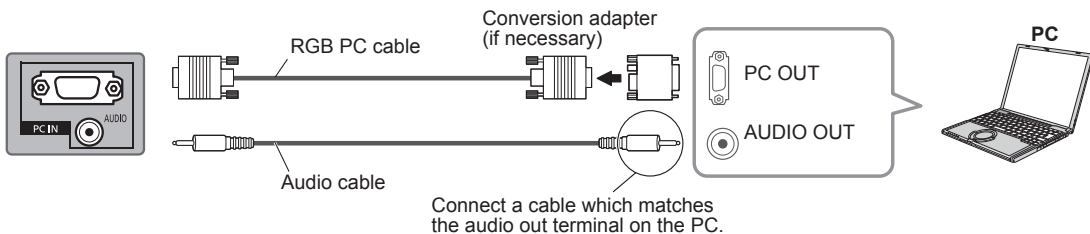
External TA



### F To use SERIAL terminal



### G To use PC terminal



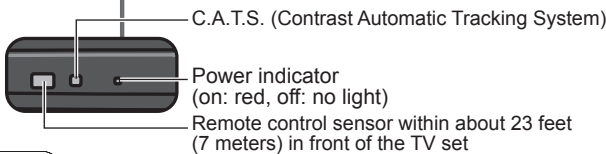
#### Note

- Not all cables and external equipment shown in this book are supplied with the TV.
- For more details on the external equipment's connections, please refer to the operating manual for the equipment.

# Identifying Controls

## TV controls/indicators

### Front of the TV



C.A.T.S. (Contrast Automatic Tracking System)

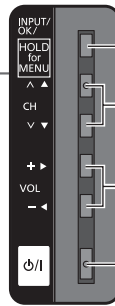
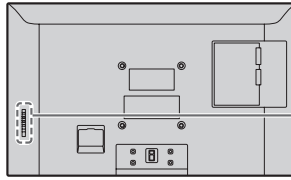
Power indicator (on: red, off: no light)

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.
- Do not place C.A.T.S. in a blocked area.

### Back of the TV



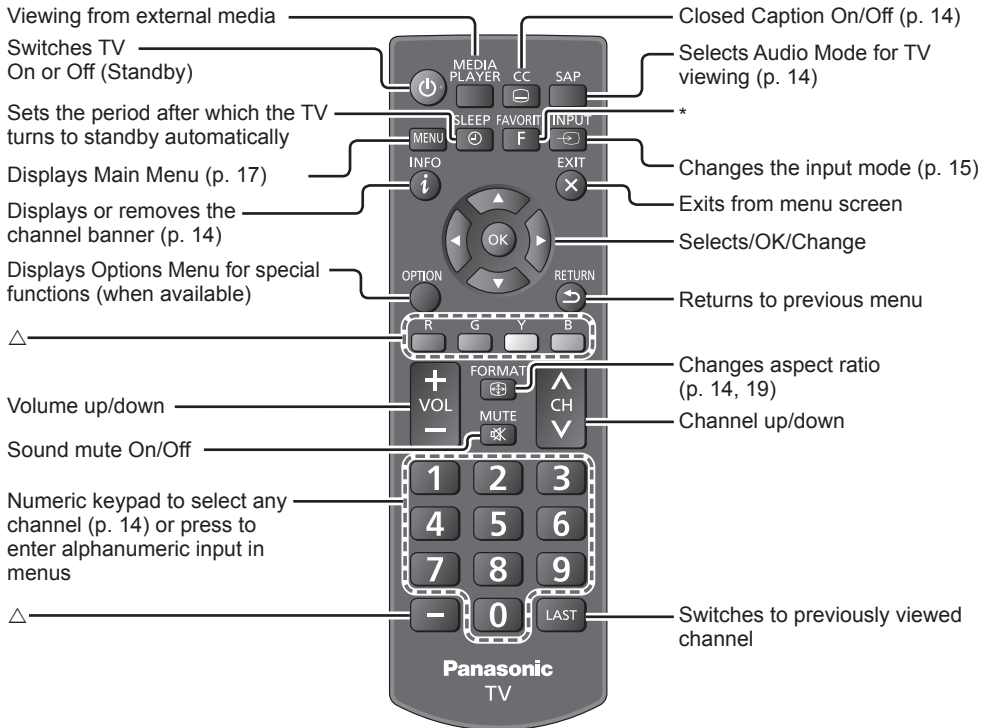
Changes the input mode  
Selects Menu and Submenu entries (Press and hold down for MENU function)

Selects channels in sequence

Volume up/down

POWER button

## Remote control



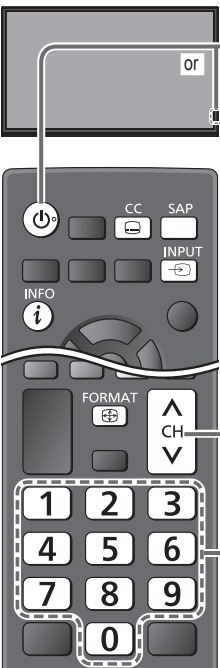
\* : Disable keys

△: For service only

- For other Remote control, please refer to the operating manual for it.


# Watching TV

Connections (p. 10-12)



**1 Turn the TV On with the POWER button**

(TV) or (Remote)

- Input select: press  (p. 15)



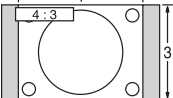
**2 Select a channel number**

(Remote)

up or 1 2 3  
CH 4 5 6  
down 7 8 9  
0

- CH buttons are also available on the side of the TV.

## Other Useful Functions

<p><b>Listen with SAP (Secondary Audio Program)</b></p>	<p>● <b>Select Audio mode for watching TV</b></p> <ul style="list-style-type: none"> <li>● <b>Digital mode</b> Press SAP to select next audio track (if available) when receiving a digital channel.</li> </ul> <div data-bbox="475 1017 634 1072" style="border: 1px solid black; padding: 2px;">             Audio track 1 of 2 English (Main audio) English audio         </div> <ul style="list-style-type: none"> <li>● <b>Analog mode</b> Press SAP to select the desired audio mode. • Each press of SAP will change the audio mode. (Stereo/SAP/Mono)</li> </ul>								
<p><b>Closed caption</b></p>	<p>● <b>Switches the Closed caption mode</b> (Off / On / On mute)</p>								
<p><b>Information recall</b></p>	<p>● <b>Displays or removes the channel banner</b></p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">  </div> <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Channel</td> <td style="text-align: right;">Sleep timer remaining time</td> </tr> <tr> <td style="text-align: center;">15</td> <td style="text-align: right;">30</td> </tr> <tr> <td style="text-align: center;">ABC-HD</td> <td style="text-align: right;">CC   SAP   TV-G   1080i   4:3</td> </tr> <tr> <td style="text-align: center;">Station identifier</td> <td style="text-align: right;">Closed caption   SAP indication   Rating level   Signal resolution   Aspect ratio</td> </tr> </table> </div> </div>	Channel	Sleep timer remaining time	15	30	ABC-HD	CC   SAP   TV-G   1080i   4:3	Station identifier	Closed caption   SAP indication   Rating level   Signal resolution   Aspect ratio
Channel	Sleep timer remaining time								
15	30								
ABC-HD	CC   SAP   TV-G   1080i   4:3								
Station identifier	Closed caption   SAP indication   Rating level   Signal resolution   Aspect ratio								
<p><b>Change aspect ratio</b></p>	<p>● <b>Press FORMAT to cycle through the aspect modes (p. 19)</b></p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">  </div> <div style="border: 1px solid black; padding: 5px;">  </div> <div style="margin-left: 10px;"> <ul style="list-style-type: none"> <li>• 480i, 480p: FULL/JUST/4:3/ZOOM</li> <li>• 1080p, 1080i, 720p: FULL/H-FILL/JUST/SIDECUT JUST/4:3/ZOOM/SIDECUT ZOOM</li> </ul> </div> </div>								


# Watching content from external devices

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

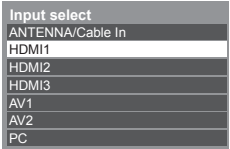
## Input Select

You can select the external equipment to access.

**1** With the connected equipment turned On  
**Display the Input select menu**



**2** **Select the input mode**



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

**Note**

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

Press INPUT repeatedly to cycle through the available inputs.

① select  
or  
② enter

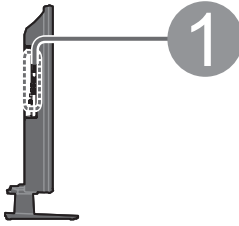
Select the input of your choice, then press OK.

- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- To switch between [Component] and [Video] in [AV1], use left and right cursor button.

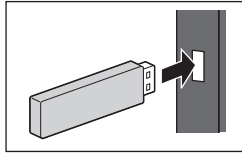


# Using Media Player

You can view still and motion images saved on a USB flash memory device.



## 1 Insert the USB Flash Memory to the TV



- Ensure alignment is straight and complete when inserting or removing.
- Media player only supports USB Mass storage class devices.

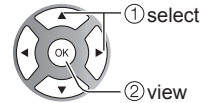


## 2 Display the view selection in the thumbnail view



## 3 Select the data to be viewed

Error display (titles that could not be loaded, etc.)



## 4 View

- Press to exit from a menu screen

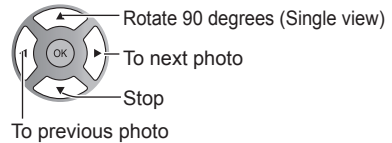
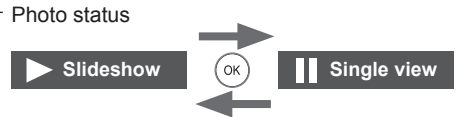


- Press to return to the previous screen



Displays one at a time

- Return to the Thumbnail view



# Guest Menu

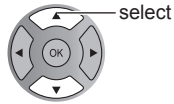
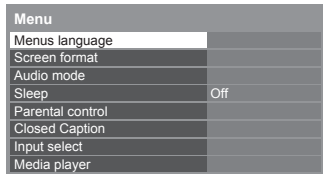


**1** Display the menu

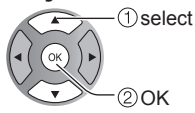


- Shows the functions that can be adjusted.
- Some functions will be disabled depending on the type of input signal.

**2** Select the item



**3** Adjust or select



■ Press to exit from a menu screen



■ Guest menu

Item	Adjustments/Configurations (alternatives)
<b>Menus language</b>	Selects the screen menu language. <b>(English/Español/Français)</b>
<b>Screen format</b>	Changes the format (aspect ratio). Lets you choose the aspect depending on the format of received signal. (p. 19)
<b>Audio mode</b>	Select Audio mode (p. 14)
<b>Sleep (minutes)</b>	The TV can automatically turn Off at the designated time <b>(Off/15/30/60/90)</b>
<b>Parental control</b>	You can lock specified channels or shows to prevent children from watching objectionable content. <ul style="list-style-type: none"> <li>● Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)</li> <li>● When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.</li> </ul>
<b>Closed Caption</b>	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.
<b>Input select</b>	Select Input (p. 15)
<b>Media player</b>	Displays Image viewer (p. 16)

# Ratings List for Lock

“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.
X	ADULTS ONLY.

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

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	<ul style="list-style-type: none"> <li>Viewable</li> <li>Blocked</li> </ul>	Not Rated.
Youth	TV-Y	<ul style="list-style-type: none"> <li>Viewable</li> <li>Blocked</li> </ul>	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	<ul style="list-style-type: none"> <li>FV Blocked</li> <li>Viewable</li> <li>Blocked</li> </ul>	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	<ul style="list-style-type: none"> <li>Viewable</li> <li>Blocked</li> </ul>	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	<ul style="list-style-type: none"> <li>D,L,S,V (all selected)</li> <li>Any combination of D, L, S, V</li> </ul>	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	<ul style="list-style-type: none"> <li>D,L,S,V (all selected)</li> <li>Any combination of D, L, S, V</li> </ul>	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	<ul style="list-style-type: none"> <li>L,S,V (all selected)</li> <li>Any combination of L, S, V</li> </ul>	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.
C	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 Section 15.120(e)(2). If the option of blocking “NR” programs is chosen “unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:”
  - Emergency Bulletins (Such as EAS messages, weather warnings and others)
  - Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

# Technical Information

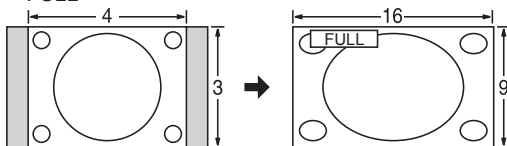
## Closed caption (CC)

- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to the TV.
- If the CC is set to On on both the receiver and TV when the signal is 480i (except for the HDMI connection), the CC may overlap on the TV.
- If a digital program is being output in analog format, the CC data will also be output in analog format.
- If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.
- EIA-708 is the standard for closed captioning for ATSC digital television streams in the United States and Canada.
- EIA-608, also known as line 21 captions, used to be the standard for closed captioning for NTSC TV broadcasts in the United States and Canada.

## Aspect Ratio (FORMAT)

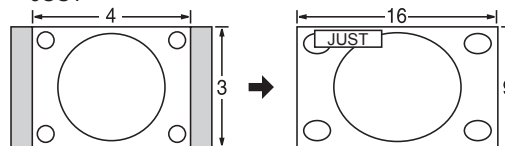
Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 14)  
(e.g.: in case of 4:3 image)

### ● FULL



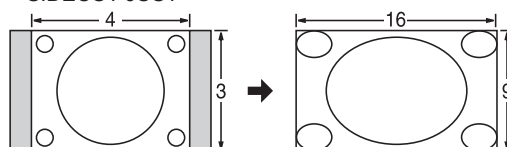
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

### ● JUST



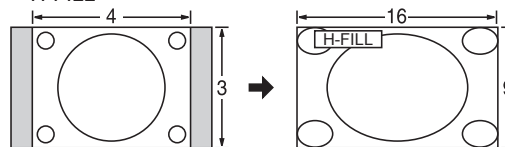
Stretches to justify the 4:3 image to the four corners of the screen. (Recommended for normal TV broadcast)

### ● SIDECUT JUST



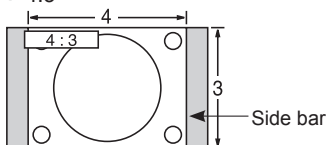
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

### ● H-FILL



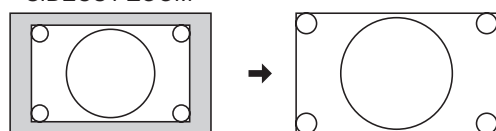
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

### ● 4:3



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

### ● SIDECUT ZOOM



Enlarges the image to the entire screen. The side edges of the image are cut off.

### Note

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

# Technical Information (Continued)

## Data format information

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)
Image resolution:	8 × 8 to 30,719 × 17,279 pixels

\* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard  
\*\* EXIF (Exchangeable Image File Format)

### Note

- The picture may not appear correctly on this TV depending on the recording equipment used.
- Some files may not be played back even if they fulfill these conditions.
- Depending on how you make USB Flash Memory, files and folders may not be displayed in the order you numbered.
- Depending on how you create the files and the structure of folders, the files and folders may not be displayed.
- When there are many files and folders, operation may take time to complete or some files may not be displayed or playable.
- Media player cannot display still images that are not DCF formatted (i.e. TIFF, BMP).
- Modified data with a PC may not be displayed correctly.
- 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 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 device may become unusable with this TV if file or folder names are changed.

## USB flash memory warning messages

Message	Meaning
No media. Please insert USB storage device.	<ul style="list-style-type: none"><li>● The device is not inserted.</li></ul>
No media. Device removed.	<ul style="list-style-type: none"><li>● The device is removed.</li></ul>
No photos	<ul style="list-style-type: none"><li>● The device has no data or this type of data is not supported.</li></ul>

## 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.  
Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- (\*1): The HDMI logo is displayed on an HDMI-compliant device.  
(\*2): Enquire at your local digital equipment retailer shop.

### Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT" or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i, 1080p.  
Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 22.

## 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.

# Technical Information (Continued)

## Input signal that can be displayed

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

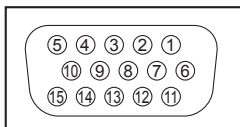
	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) /60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00		*	
640 × 480 @60	31.47	59.94			*
852 × 480 @60	31.44	59.89			*
800 × 600 @60	37.88	60.32			*
1,024 × 768 @60	48.36	60.00			*
1,280 × 768 @60	47.78	59.87			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.39	60.04			*

### Note

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

## PC Input Terminals Connection

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

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

## VIERA Link™ “HDAVI Control™”

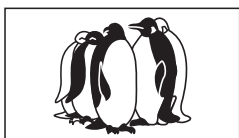
HDMI connections to some Panasonic equipment allows you to interface automatically.

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

# Troubleshooting

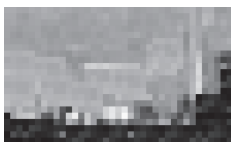
Before requesting service or assistance, please follow these simple guides to resolve the problem.  
If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance.

## White spots or shadow images (noise)



- Check the position, direction, and connection of the antenna.

## Interference or frozen digital channels (intermittent sound)

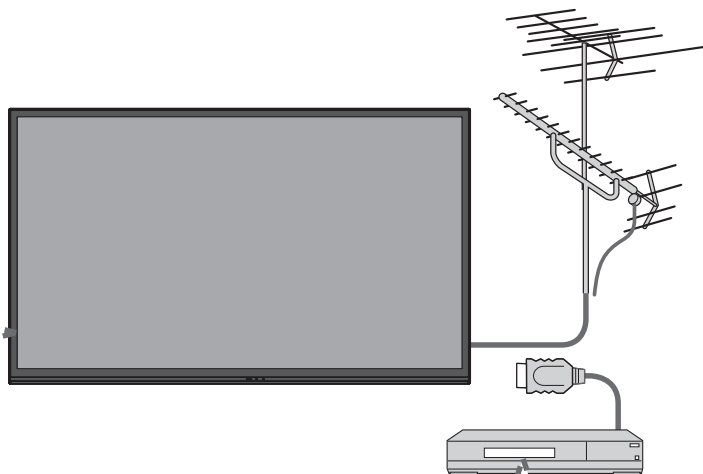


- Change the direction of antenna for digital channels.

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

This is not a malfunction.

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



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

- Is the HDMI cable connected properly?
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 22)
- Use equipment compliant with EIA/CEA-861/861B.

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

- This is normal operation.

## Recording does not start immediately

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

## The remote control does not work

- Are the batteries installed correctly? (p. 7)
- Are the batteries new?





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

	Problem	Actions
Screen	Some spots remain bright or dark	<ul style="list-style-type: none"> <li>The LCD panel is made up of a few million pixels and is produced with advanced technology through an intricate process. Sometimes a few pixels may be bright or dark. These pixels do not indicate a defective panel and will have no impact on the performance of the TV.</li> </ul>
	Chaotic image, noisy	<ul style="list-style-type: none"> <li>Check nearby electrical products. (car or motorcycle ignition systems, fluorescent lamp, etc.)</li> </ul>
	No image is displayed on screen	<ul style="list-style-type: none"> <li>Check Picture menu.</li> <li>Check the cable connections.</li> <li>Check that the correct input has been selected.</li> </ul>
	Only spots are displayed instead of images	<ul style="list-style-type: none"> <li>Check the channel settings.</li> <li>Check the antenna cables.</li> </ul>
	Neither image nor sound is produced	<ul style="list-style-type: none"> <li>Is the power cord plugged into the outlet?</li> <li>Is the TV unit turned On?</li> <li>Check Picture menu and volume.</li> <li>Check the AV cable connections. (p. 11-12)</li> <li>Check that the correct input has been selected. (p. 15)</li> </ul>
	Black Box appears	<ul style="list-style-type: none"> <li>Change settings of Closed caption (CC).</li> </ul>
Sound	No sound is produced	<ul style="list-style-type: none"> <li>Are the speakers' cables connected correctly?</li> <li>Is "Sound Mute" active? (p. 13)</li> <li>Is the volume set to the minimum?</li> <li>Is "TV speakers" set to "Off"?</li> <li>Change "SAP" settings. (p. 14)</li> <li>Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings.</li> <li>If the TV is connected to a Panasonic Home Theater via HDMI cable, then check VIERA Link controls.</li> </ul>
	Sound is unusual	<ul style="list-style-type: none"> <li>Set "SAP" setting to "Stereo" or "Mono".</li> <li>Check the HDMI device connected to the unit.</li> <li>Set the audio setting of the HDMI device to "Linear PCM".</li> <li>If digital sound connection has a problem, select analog sound connection.</li> </ul>
	<b>Unknown sound heard</b> <b>1- Sounds from TV cabinet</b> <b>2- Tick/Click sound</b> <b>3- Buzzing sound</b>	<ol style="list-style-type: none"> <li>Changes in the temperature and humidity of the room may cause the TV's cabinet to expand or contract and produce metallic sounds. This is not a sign of faulty operation or a malfunction.</li> <li>When the TV is powered on, an electrical component in the TV activates producing a tick/click sound. This is not a sign of faulty operation or a malfunction.</li> <li>Electrical circuits are active while the TV set is on. This is not a sign of faulty operation or a malfunction.</li> </ol>
Other	The main unit is hot.	<ul style="list-style-type: none"> <li>The main unit radiates heat and some of the parts may become hot. This is not a problem for performance or quality. Set up in a location with good ventilation. Do not cover the ventilation holes of the TV with a tablecloth, etc., and do not place on top of other equipment.</li> </ul>

# 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

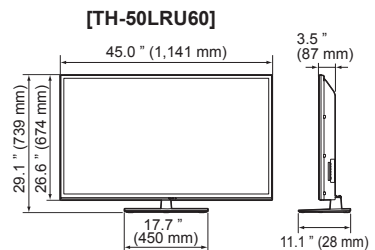
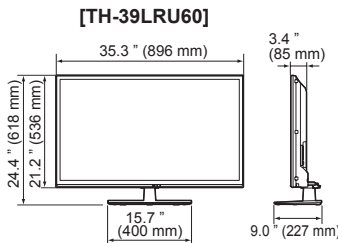
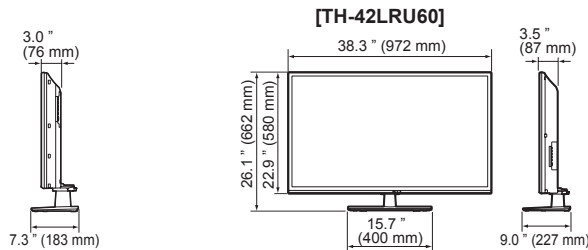
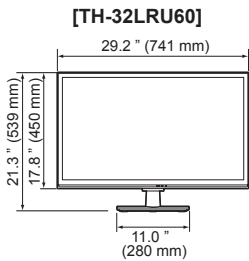
Wipe the plug with a dry cloth at regular intervals. (Moisture and dust can lead to fire or electrical shock.)

# Specifications

		TH-32LRU60	TH-39LRU60
<b>Power Source</b>		AC 110-127 V, 60 Hz	
<b>Power Consumption</b>	<b>Rated Power Consumption</b>	60 W	80 W
	<b>Standby condition</b>	Under 1.0 W	Under 1.0 W
<b>Display panel</b>	<b>Panel System</b>	LCD panel (LED backlight) 16:9 Aspect Ratio	
	<b>Visible screen size (W × H × Diagonal) (No. of pixels)</b>	32" class (31.5 inches measured diagonally) 27.5" × 15.4" × 31.5" (698 mm × 392 mm × 800 mm) 1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	39" class (38.5 inches measured diagonally) 33.6" × 18.9" × 38.5" (854 mm × 480 mm × 980 mm) 2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]
<b>Dimensions (W × H × D)</b>	<b>Including TV stand</b>	29.2" × 21.3" × 7.3" (741 mm × 539 mm × 183 mm)	35.3" × 24.4" × 9.0" (896 mm × 618 mm × 227 mm)
	<b>TV Set only</b>	29.2" × 17.8" × 3.0" (741 mm × 450 mm × 76 mm)	35.3" × 21.2" × 3.4" (896 mm × 536 mm × 85 mm)
<b>Mass</b>	<b>Including TV stand</b>	19.9 lb. (9.0 kg) NET	23.4 lb. (10.6 kg) NET
	<b>TV Set only</b>	15.5 lb. (7.0 kg) NET	19.9 lb. (9.0 kg) NET
<b>Sound</b>	<b>Speaker</b>	1-way 2 bottom SP System	
	<b>Audio Output</b>	10 W [5 W + 5 W]	20 W [10 W + 10 W]

		TH-42LRU60	TH-50LRU60
<b>Power Source</b>		AC 110-127 V, 60 Hz	
<b>Power Consumption</b>	<b>Rated Power Consumption</b>	105 W	125 W
	<b>Standby condition</b>	Under 1.0 W	Under 1.0 W
<b>Display panel</b>	<b>Panel System</b>	LCD panel (LED backlight) 16:9 Aspect Ratio	
	<b>Visible screen size (W × H × Diagonal) (No. of pixels)</b>	42" class (41.9 inches measured diagonally) 36.5" × 20.5" × 41.9" (928 mm × 522 mm × 1,065 mm) 2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]	50" class (49.5 inches measured diagonally) 43.1" × 24.3" × 49.5" (1,096 mm × 616 mm × 1,257 mm)
<b>Dimensions (W × H × D)</b>	<b>Including TV stand</b>	38.3" × 26.1" × 9.0" (972 mm × 662 mm × 227 mm)	45.0" × 29.1" × 11.1" (1,141 mm × 739 mm × 280 mm)
	<b>TV Set only</b>	38.3" × 22.9" × 3.5" (972 mm × 580 mm × 87 mm)	45.0" × 26.6" × 3.5" (1,141 mm × 674 mm × 87 mm)
<b>Mass</b>	<b>Including TV stand</b>	27.8 lb. (12.6 kg) NET	41.9 lb. (19.0 kg) NET
	<b>TV Set only</b>	24.3 lb. (11.0 kg) NET	35.3 lb. (16.0 kg) NET
<b>Sound</b>	<b>Speaker</b>	1-way 2 bottom SP System	
	<b>Audio Output</b>	20 W [10 W + 10 W]	

<b>FEATURES</b>	3D Y/C FILTER, CLOSED CAPTION, V-Chip, Vesa compatible, Integrated Pro: Idiom	
<b>Operating Conditions</b>	Temperature:	32 °F – 95 °F (0 °C – 35 °C)
	Humidity:	20 % – 80 % RH (non-condensing)
<b>Channel Capability-ATSC/NTSC (Digital/Analog)</b>	VHF/ UHF: 2 - 69, CATV: 1 - 135 (support MPEG4 H.264 decode)	
<b>PC signals</b>	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz	
<b>Connection Terminals</b>	<b>VIDEO IN 1-2</b>	VIDEO: RCA PIN Type × 1 1.0 V[p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]
	<b>COMPONENT IN</b>	Y: RCA PIN Type × 1 1.0 V [p-p] (including synchronization) Pb: RCA PIN Type × 1 ±0.35 V [p-p] Pr: RCA PIN Type × 1 ±0.35 V [p-p] AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]
	<b>HDMI 1-3</b>	TYPE A Connector × 3 ● This TV supports "HDAVI Control 5" function.
	<b>PC IN</b>	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO: M3 JACK × 1 0.5 V [rms]
	<b>SERIAL CTRL</b>	M3 Jack × 1 (RS232C)
	<b>DATA/MTI</b>	RJ-11C (6pin) ● Multiple Television Interface (MTI)
	<b>AUDIO OUT</b>	M3 JACK × 1 0.5 V [rms] (high impedance)
	<b>DIGITAL AUDIO OUT</b>	PCM / Dolby Digital, Fiber Optic (TH-42LRU60, TH-50LRU60)
	<b>USB</b>	USB2.0 Type A connector DC 5V, Max. 500 mA



**Note**

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

(for the U.S.A and Puerto Rico)

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

**Panasonic Hospitality LCD HDTV  
Limited Warranty**

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

antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

<b>Models or Parts</b>	<b>Part Warranty</b>	<b>Labor Warranty</b>
Professional Flat Panel Display	2 Years	2 Years

**LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above.

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

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

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

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may other rights, which vary from state to state.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper

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

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

(for Canada)

Panasonic Canada Inc.  
5770 Ambler Drive, Mississauga, Ontario L4W 2T3  
**LIMITED WARRANTY STATEMENT**

Panasonic Canada Inc. (also known as PCI) warrants this product to be free of defects in material and workmanship under normal use during the applicable warranty coverage period described below. PCI agrees to repair, or at its option, exchange, any part that becomes defective. However, the product must be purchased and serviced in Canada. The product or part that shows evidence of defect must be delivered prepaid or carried in to an authorized Panasonic Broadcast Service Center. This warranty does not cover shipping costs.

The warranty coverage period is one year for both parts and labour beginning with the date of original end user purchase, subject to the exceptions as stated below.

Repaired or replacement parts supplied during the warranty coverage period carry the unexpired portion of the original warranty coverage period. Proof of product purchase is a condition of warranty service. The owner must produce the product purchase receipt or other satisfactory evidence of date of original purchase.

This warranty does not apply to external appearance items, such as handles, knobs, safety windows, etc. This warranty does not apply to any part, or parts, of the product, installed, altered, repaired or misused in any way that, in the opinion of PCI, affects the reliability of or detracts from the performance of the product.

For products requiring routine preventive maintenance, that maintenance must be performed in order to maintain warranty coverage.

Serial numbers that have been altered, defaced or removed void this warranty. This warranty does not cover replacements or repairs necessitated by loss or damage resulting from any cause beyond the control of PCI.

Marking or retained images (sometimes called "burn-in") resulting from the display of fixed images on video display products are not defects and are not covered 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.**

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.

**WARRANTY COVERAGE PERIOD EXCEPTIONS**

Item	Parts	Labour
Video Tape	30 days—Replacement only (content not covered)	N/A
P2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (prorated) Whichever comes first	1 year or 2,000 hrs. Whichever comes first
D5 Video heads	1 year or 1,000 hrs. Whichever comes first	1 year or 1,000 hrs. Whichever comes first
Maintenance Items	90 days	90 days
Colour Camera CCD Imaging Block	2 years	2 years
All LCD Monitors	2 years (burn-in not covered)	2 years
* DLP™ Projectors	3 years or 17,000 hrs. Whichever comes first	3 years or 17,000 hrs. Whichever comes first
* LCD Projectors above 2,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first.
* LCD Projectors below 2,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
Projector Lamps	50% of the rated lamp life or 1 year. Whichever comes first	50% of the rated lamp life or 1 year. Whichever comes first.
All Plasma displays	2 years (burn-in not covered)	2 years
103 inch Plasma displays	3 years (burn-in not covered)	3 years
Hard Drive Disk Unit	1 year plus balance (if any) of the original Manufacturer's Limited Warranty. (Content not covered)	1 year

\* Dust, smoke, rental/staging environment and twenty-four/seven operation, dramatically decreases the interval between performances of routine preventive maintenance required to maintain this warranty coverage.

**Warranty Service**

If the product needs to be shipped for service, carefully pack (preferably in the original carton) and enclose a letter, detailing the complaint. Send prepaid and adequately insured to the local authorized Panasonic Service Centre in your area or to Panasonic Technical Support and Product Services Department, 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3. Shipping to the latter location requires a return authorization before shipment. No liability is assumed for loss or damage to the product while in transit.

## *Useful Information*

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### ***Customer Service***

#### ***Customer Service Directory***

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

**<http://www.lar.panasonic.com>**

Also you may contact us directly by our Contact Center:

<b>Panama</b>	<b>800-PANA (800-7262)</b>
<b>Colombia</b>	<b>01-8000-94PANA (01-8000-947262)</b>
<b>Ecuador</b>	<b>1-800-PANA76 (1-800-726276)</b>
<b>Costa Rica</b>	<b>800-PANA737 (800-7262737)</b>
<b>El Salvador</b>	<b>800-PANA (800-7262)</b>
<b>Guatemala</b>	<b>1-801-811-PANA (1-801-811-7262)</b>
<b>Uruguay</b>	<b>0-800-PANA (0-800-7262)</b>
<b>Dominican Republic</b>	<b>809-200-8000</b>

#### ***Mexico Service***

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

**[email: atencion.clientes@mx.panasonic.com](mailto:atencion.clientes@mx.panasonic.com)**

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

**01800-VIP-PANA (01800-847-7262) - Interior**  
**(55) 5000-1200 - Mexico D.F. and Metropolitan Area**