

Operating Instructions 58" Class 1080p Plasma HDTV (58.0 inches measured diagonally)

Manual de instrucciones

Televisión de alta definición de 1080p y clase 58" de Plasma

(58,0 pulgadas medidas diagonalmente)

Model No. Número de modelo **TH-58PZ800U** 



### **Quick Start Guide**

(See page 6-15)

### Guía de inicio rápido

(vea la página 6-15)

- For assistance (U.S.A.), please call: 1-877-95-VIERA (958-4372) or visit us at www.panasonic.com/contactinfo
- For assistance (Puerto Rico), please call: **787-750-4300**

or visit us at www.panasonic.com

- For assistance (Canada), please call: 1-866-330-0014 or visit us at www.vieraconcierge.ca
- Para solicitar ayuda (EE.UU.), llame al: 1-877-95-VIERA (958-4372) ó visítenos en www.panasonic.com/contactinfo
- Para solicitar ayuda (Puerto Rico), Ilame al: 787-750-4300
   ó visítenos en www.panasonic.com













English

Español

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.

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



SDHC Logo is a trademark.	GalleryPlayer GalleryPlayer GalleryPlayer and the GalleryPlayer Logo are trademarks of GalleryPlayer, Inc.	VIERA Link <sup>™</sup> is a trademark of Matsushita Electric Industrial Co., Ltd.
<b>BBE</b> .ViVA HD3D Sound	<b>BBE</b> <sub>®</sub> High Definition Sound	
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### **Safety Precautions**







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

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

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

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

#### **Important Safety Instructions**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- Follow all instructions. 4)
- 5) Do not use this apparatus near water.
- Clean only with dry cloth. 6)
- Do not block any ventilation openings. Install in 7) 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) To prevent electric shock, ensure the arounding pin on the AC cord power plug is securely connected.

#### 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-58PZ800U

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



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.

#### Set up

**Do not place the Plasma TV on sloped or unstable surfaces.** The Plasma TV may fall off or tip over.

Do not place any objects on top of the Plasma TV.

If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

This Plasma TV is for use only with the following optional accessories. 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 Matsushita Electric Industrial Co., Ltd.)

Wall-hanging bracket (Vertical) TY-WK42PV4W

Always be sure to ask a qualified technician to carry out set-up.
 Two or more people are required to install and remove the television. If two people are not present, the television may

be dropped, and personal injury may result. Transport only in upright position!

Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

#### AC Power Supply Cord

#### The Plasma TV is designed to operate on 120 V AC, 60 Hz. Securely insert the power cord plug as far as it will go.

If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

The included power cord is for use with this unit only. Do not use any power cord other than that provided with this TV. Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

Do not do anything that might damage the power cord. When disconnecting the power cord, hold the plug, not the cord.

Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cord. Doing so may cause damage to the power cord which can cause fire or electric shock. If damage to the cord is suspected, have it repaired at an Authorized Service Center.

#### If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power cord immediately.

Continued use of the TV under these conditions might cause fire or permanent damage to the unit. Have the TV evaluated at an Authorized Service Center. Servicing of the TV by any unauthorized personnel is strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma TV, if the Plasma TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.



#### Do not cover the ventilation holes.

Doing so may cause the Plasma TV to overheat, which can cause fire or damage to the Plasma TV.

Leave a space of 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (7 cm) or more at the rear. When using the pedestal, keep the space between the bottom of the TV and the floor surface.

#### When using the Plasma TV

Be sure to disconnect all cables before moving the Plasma TV.

Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning. Electric shocks can result if this is not done.

Clean the power cord plug regularly to prevent it from becoming dusty.

Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

Do not climb up onto the television or use it as a step. (Young children should be made particularly aware of this caution.)

If the unit falls over or becomes damaged through misuse, injury may result.

The TV will still consume some power as long as the power cord is inserted into the wall outlet.

### Notes

#### Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("Image retention"). This is not considered a malfunction and is not covered by the warranty.

#### **Typical still images**

Channel number and other logos

- Image displayed in 4:3 mode
- SD Card photo 
  Video game 
  Colored and Colored an

Computer image



To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 51)

#### Set up

- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

## **Accessories/Optional Accessory**







Hook

- Note the correct polarity (+ or -).
- Incorrect installation may cause battery leakage and corrosion, resulting in damage
  - 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.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39)

#### Attaching the pedestal to TV

#### Assembling the pedestal

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



#### Warning

#### Do not disassemble or modify the pedestal.

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

#### Caution

#### Do not use any other TV and displays.

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

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

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

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

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

### Accessories/Optional Accessory (Continued)





#### **Cable Binding Instructions**





## **Basic Connection**

#### **Example 1** Connecting Antenna (To watch TV)

#### τv



#### VHF/UHF Antenna

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



#### Note

- Not all cables and external equipment shown in this book are supplied with the TV.
- For the details of the external equipment's connections, please refer to the operating manuals for the equipment.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com

www.panasonic.ca

### Basic Connection (Continued)

#### Example 2

#### Connecting DVD recorder (VCR) (To record/playback)

#### τv



#### **DVD Recorder**

If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable. (p. 12) VCR

Connection can be done with the use of an RF cable and Composite Video/S Video cable. (p. 12)

### To connect antenna terminal and DVD recorder or VCR



#### **Example 3** Connecting DVD recorder (VCR) and satellite receiver



You can enjoy high-definition programming by subscribing to high-definition satellite service. Connection can be done with the use of HDMI or Component Video cable. (p. 12)



#### Note

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

### Basic Connection (Continued)

#### AV cable connections **(A)** To use HDMI terminals AV Equipment HDMI 2 ГĊ HDMI AV OUT e.g. Blu-ray Disc player Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound. **High-Definition** ● For "VIERA Link<sup>™</sup> connections", please refer to p. 41. **(B)** To use COMPONENT terminals $\bigcirc$ 100 white white white AUDIO OUT R 11 red COMPONEN red red AV Equipment نظ 6 green (()) green VIDEO green e.g. Blu-ray Disc Ρв COMPONENT player ()TIME. VIDEO OUT blue blue blue $(\bigcirc)$ TI 1 111 1 red red red Recorders may also be connected to COMPOSITE or S VIDEO terminals. (see below) © To use S VIDEO terminals S VIDEO VIDEO **AV Equipment** OUT IN ].... ooo 🖸 VINE e.g. DVD Recorder Standard-Definition $(\textcircled{O})^{\mathsf{L}}$ or white white white AUDIO OUT TTIII e.g. VCR red red red D To use COMPOSITE terminals AV Equipment VIDEO I $( \circ )$ IN e.g. DVD Recorder vellow vellow yellow COMPOSITE $\bigcirc$ 1 or OUT white white white R ۲ 1 1111 e.g. VCR red red red The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable. Connecting to S VIDEO terminals will enable you to enjoy greater picture quality than using Composite terminals.

- 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 the details of the external equipment's connections, please refer to the operating manuals of this equipment.

# **Identifying Controls**



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



## **First Time Setup**

"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. 26-27) is set to "No".





#### **(5) Confirm registered channels**



- If OK is not pressed after selecting "Apply", the channels will not be saved. The channel will be saved when no operation is performed for 60 seconds and the "Manual program" menu will also exit automatically.
- If you perform scanning more than twice, previously saved channels are erased.

#### Note

- About broadcasting systems
  - Analog (NTSC):Conventional broadcastingDigital (ATSC):New programming that allows you to view more channels<br/>featuring high-quality video and sound

۲

First Time Setup

# Watching TV

Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 9-12)



Other Useful Functions (Operate after ②)





#### Note

- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 35)
- The channel number and volume level remain the same even after the TV is turned off.



To change the page Pressing < changes the page backward.</p>

# Viewing from 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.)



Displays one at a time

Navigation area





# Watching Videos and DVDs

If you have applicable equipment connected to the TV, you can easily watch videos and DVDs using the TV's remote control.

#### **Input Select**

You can select the external equipment to access.

To operate other manufacturers' equipment, you need to register the code for the equipment. (p. 39)



(For other operations, see p. 42)

### VIERA Link<sup>™</sup> Setting

If you connect equipment that has "HDAVI Control" function to a TV with HDMI cable, you can use more convenient functions. Please refer to p. 28-31. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



# **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. 40)



PC menu setting (change as desired)
 Making settings \* "How to Use Menu Functions" (1) to (2) (p. 24)

Menu		em	Adjustments/Configurations (options)		
		Reset	Resets PC adjust		
	PC adjust	Sync	<ul> <li>H &amp; V: The H and V sync signals are input from the HD/VD connector. (p. 49)</li> <li>On G: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 49)</li> </ul>		
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.		
Picture		H-position	Adjusts the horizontal position.		
		V-position	Adjusts the vertical position.		
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. 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 VGA to WVGA Input signal switched from XGA to WXGA		
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz		

Audio menu (p. 24)
 For PC input, only audio signals can be output from PROG OUT terminals.

## How to Use Menu Functions

Menu list

Item

Sleep, Timer 1-5

Timer Lock

Menu

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.



Adjustments/Configuration	5 (alternatives)			
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote cor [VIERA Link control]	ntrol (p. 30-31).			
Selects equipment to access and operate. (Recorder/Home theater/Player/Camcorder) (p.30-31) [Speaker output] Selects an audio output. (Home theater/TV) (p. 30-31) • VIERA Link menu is accessible directly by pressing the VIERA Link button on the remote control. • VIERA (p. 30)				
Resets all picture adjustments to factory default settings except for "Adva				
Basic picture mode (Vivid/Standard/THX/Game/Custom) (p. 48)	Picture mode Viv			
Adjusts color, brightness, etc. for each picture mode to suit your taste	Picture +20 Tint 0			
<ul> <li>Display range</li> <li>Picture/Brightness/Color/Sharpness: 0 - 100</li> <li>Tint: -50 - +50</li> </ul>	Pricture     Price       Brightness     0       Color     0			
Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool/Norr	nal/Warm) Color temp. Col			
On: Enhances green and blue color reproduction, especially outdoor sc	enes. (On/Off) Color mgmt. O			
Auto: Provide the appropriate picture when images corresponding to "x. input of this TV. (Off/Auto)	v.Color" are input via the HDMI x.v.Color Aut			
Adjusts the brightness and gradation accordingly to optimize contrast. (C	Off/On) C.A.T.S. Of			
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46	Dimensional State     Dimensional Stat			
Sets PC display (p. 22)	PC adjust			
Reduces noise, commonly called snow. Leave it off when receiving a structure	ong signal. (Off/On) Video NR Of			
Minimizes noise and cross-color in the picture. (On/Off)	3D Y/C filter			
<ul> <li>Selects image resolution of component-connected devices (HD/SD)</li> <li>SD: Standard Definition HD: High Definition</li> <li>Only 480p signal accepted; regular TV (NTSC) is not available.</li> </ul>	Color matrix SI			
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)	MPEG NR Of			
Selects Dark or Light. Valid only for external input signals. (Dark/Light)	Black level Lig			
48Hz: Achieves more cinematic playback by reproducing the movie con frames per second. <b>(60Hz/48Hz)</b>	24p Direct in 80			
<ul> <li>Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with Hig Select "Size 1" if noise is generated on the edges of the screen.</li> <li>Size 1: Selected item for "HD size". Scanning 95%</li> <li>Size 2: Selected item for "HD size". Scanning 100%</li> </ul>	h-definition signal. <b>(Size 1/ Size 2)</b> HD size Size			
Resets Bass, Treble and Balance adjustments to factory default settings	Reset			
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) Al sound Or			
BBE ViVA HD3D (High-Definition 3D) Sound provides musically accurate natural 3D image is improved by BBE while the width, depth and height of sound image are expanded by BBE ViVA HD3D Sound is compatible with all TV programs including news, music, dramas, movi	E's proprietary 3D sound process. BBE BBE VIVA 3D			
BBE High Definition Sound restores clarity and presence for better speech intelli	gibility and musical realism. (On/Off) BBE O			
Enhances audio response when listening to stereo. (On/Off)	Surround			
Minimizes volume disparity after switching to external inputs	Audio leveler 0			
Switch to "Off" when using external speakers (On/Off) <ul> <li>"Al sound", "Surround", and "Audio leveler" do not work if "Off" is select</li> </ul>	Speaker output Or			
The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio (Digital/Component 1/Component 2/Video 1/Video 2/PC)	input signal) HDMI2 in Digi HDMI3 in Digi HDMI4 in Digi			
The TV can automatically turn On/Off at the designated date and time (p	. 38) Sleep 60			

Locks the channels and programs (p. 32)

In AV mode, the Audio menu and Setup menu give fewer options.

Advanced

## How to Use Menu Functions

Menu list

Item

Menu

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.



### (Continued)

Displays SD card data (p. 18-19)	SD card
	A
Displays subtitles (Closed Caption) (p. 36)	CC
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. 17)	Surf mode
Selects the screen menu language (p. 14)	Language
Adjusts the clock (p. 14)	Clock
Sets channels (p. 34)	Program channel
Selects the terminal and label of the external equipment (p. 37)	
[Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3/HDMI 4/Video 1/Video 2] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 37) (On/Off)	
<ul> <li>Prevents "Image retention" with Wobbling. (Automatic/Force)</li> <li>Automatic: Shifts the display image automatically.</li> <li>Force: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time" menu.</li> </ul>	Pixel orbiter Auto
Sets the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time
Change the brightness of the side bar ( <b>Off/Dark/Mid/Bright</b> ) (4:3 mode only) <ul> <li>The recommended setting is "Bright" to prevent panel "Image retention". (p. 49)</li> </ul>	Side bar Br
Press "OK" to start horizontal "Scrolling" on the screen (p. 49)	Scrolling bar
Controls equipment connected to HDMI terminals (p. 28) <b>(On/Off)</b> <ul> <li>"Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.</li> </ul>	VIERA Link
Sets "Power off link" of HDMI connection equipment (p. 28) (Set/No)	Power off link
Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No)	Power on link
Selects the default speakers (p. 28) <b>(TV/Theater)</b>	Default speakers
Turns TV On automatically when the cable box or a connected device is turned On <b>(No/Set)</b> The "Sleep" timer, "On/Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 38)	Auto power on
<ul> <li>To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Set/No)</li> <li>Note</li> <li>Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel.</li> <li>"No signal shut-off 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 shut-off".</li> <li>The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.</li> </ul>	No signal shut-off
<ul> <li>To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues for more than 3 hours. (No/Set)</li> <li>Note</li> <li>Not in use when setting "Auto power on" or "On/Off Timer" or PC input display.</li> <li>"No action shut-off 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 action shut off".</li> <li>The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.</li> </ul>	No action shut-off
Set to "On", if you light SD card LED while SD card is inserted. (On/Off )	SD card LED
Set "On" to play back SD cards automatically. <b>(On/Off)</b>	Play SD card automatically
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Reset

	Adjustments/Configurations (alternatives)	
Sets the mode to sele	t the channel with Channel up/down button (All/Favorite/Digital only/Analog only)	
Sets favorite channel	. (p. 17)	
Displays Closed Capt	on. (p. 36) <b>(Off/On)</b>	
Changes the station i	entifier. (p. 35)	
<u> </u>	ngth if interference or freezing occurs on a digital image. (p. 35)	

## VIERA Link<sup>™</sup> "HDAVI Control<sup>™</sup>"\*



At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input based on the playback equipment.

- For the RAM theater, the speakers automatically switch to the theater system.
  - If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed.

When "Set" is selected (p. 26), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected.

When "Set" is selected (p. 26) and the TV is turned off, all connected VIERA Link compatible equipment is also 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.

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

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

① Home Theater power switches On, and playback begins.

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

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

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

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

#### Note

- There is a possibility that all the GUI language information might be set from equipment that has HDMI CEC function connected to TV with HDMI cable. Depending on operating conditions or the specification for each piece of equipment the setting may or may not be applied.
- For details on the external equipment's operation, please refer to the operating manuals for the equipment.

#### [For Recorder]

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

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

## VIERA Link<sup>™</sup> "HDAVI Control<sup>™</sup>"

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu. For more details on the of "HDAVI Control" function, refer to p. 28



VIERA Link Control only with the TV's remote control (for "HDAVI Control 2" or "HDAVI Control 3")

Speaker

control

Direct TV Recording (for HDAVI control 3) You can select Home theater or TV speakers for audio output. Control theater speakers with the TV's remote control. This function is available only when Panasonic Amplifier or Player theater is con-

This function is available only when Panasonic Amplifier or Player theater is connected.

- **1** Select "Speaker output"
- ② Select "Home theater" or "TV"



#### **Home theater:** Adjustment for equipment

Volume up/down





- The sound of the TV is muted.
- When the equipment is turned off, the TV speakers take over.
- Selecting "Home theater" turns the equipment on automatically if it is in standby mode.
- **TV:** The TV speakers are on.

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

- 1 Select "VIERA Link Control"
- ② Select the equipment you want to access. (Recorder/Home theater/Player/Camcorder)



①select

•

You can select available items only.

### ③ Operate the equipment with the TV's remote

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

Records the current program on the recorder immediately.

#### ①Select "Record now"



 For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.

### Available TV's remote control buttons

	Move the cursor/Select
OK	Set/Access
RETURN	Return to the previous menu
	Display the Functions menu on the equipment
R O B Y	Available when the purpose of the keys is displayed on screen

②Select "Stop recording", when you want to stop recording



Recording will not stop automatically when the 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.

# **Editing and Setting Channels**

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





## **Closed Caption**


# Input Labels/Monitor Out



# **Using Timer**

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

- The Clock must be set before On time/Off time settings. (p. 14)
- The "Sleep" timer and "On/Off timer" will not work if the "Auto power on" (p. 27) is set.



# Advanced

# Programming the Remote to Operate Peripheral Equipment

You can operate other manufacturers' equipment using this TV's remote control.



This procedure searches all codes and is called the "sequence method."



Repeat until the code is found
 It may take many attempts before the correct code is found

# (2) When the correct code is found



# **Recommended AV Connections**

These diagrams show our recommendations or 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



# Note

- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 37) cannot be output from "PROG OUT" terminals. However, audio output can be obtained from "DIGITAL
- AUDIO OUT" terminal. To prevent howling and image oscillation, set the
- "Monitor out" setting when connecting the VCR with loop-connection. (p. 26, 37)
- When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, no video signals can be passed through PROG OUT terminal.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.
- \* Please see p. 24-25 for setup when using an external analog audio cable with an HDMI to DVI cable.

# VIERA Link<sup>™</sup> Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a Panasonic DVD recorder (DIGA), RAM theater, or Player theater system. Refer to page 28-31 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

#### Note

HDMI 1 is recommended.

When connecting to HDMI 2/HDMI 3/HDMI 4, set the input mode to HDMI 2/HDMI 3/HDMI 4 (p. 20) initially before connecting to HDMI 2/HDMI 3/HDMI 4. After connection, confirm the HDMI control functions (p. 28-31).

- 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:

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

#### Connecting this unit to a DVD recorder (DIGA) and AV amp When using an "VIERA Link" audiovideo amplifier and a compatible DVD

If connection (or setting) of equipment compatible with

Player theater playback operate.

HDAVI control is changed, switch the power of this unit Off

the unit can correctly recognize the connected equipment)

and check that the DVD recorder (DIGA), RAM theater, and

and On again while the power of all equipment is On (so that

video amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.



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

Refer to the diagram above when connecting a DVD recorder/player and an AV amp to your Viera Television.

#### Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 21, 26-27).

#### 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 more details about HDMI cables for connecting a Panasonic HD camcorder, read the manual for the equipment.

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# **Remote Control Operation/Code List**

The following explains how to operate external devices with the TV's remote control.

Register the remote control codes (p. 39) if you want to operate an external device from another manufacturer. (p. 43-44)

Note

- Operation may not be possible depending on the available memory size of the remote control.
  This remote control is not depined to sever exercises of all functions of all medals.
- This remote control is not designed to cover operation of all functions of all models.

#### Remote Control Operation List

This chart defines which keys are operational after programming (if needed) while in the selected remote control mode, CABLE, DBS, VCR, or DVD.

KEY NAME	VCR MODE	VCR MODE DBS/CBL MODE (DBS) (CBL)						
POWER	Power	Power	Power	Power				
SAP		LIST	LIST	DVD AUDIO				
VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch				
MENU	_	Menu	Menu	Functions				
EXIT		Exit	Exit	_				
		Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left				
		Select	Select	Enter				
		Guide	Guide	Sub Menu				
RETURN		PPV/VOD	PPV/VOD	Return				
R		Red	A	Red				
G		Green	В	Green				
В	_	Blue	С	Blue				
		Yellow	D	Yellow				
	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down				
+	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down				
FORMAT		Aspect	Aspect					
FAVORITE		Favorite	Favorite	Direct Navigator				
INFO	Onscreen Display	Info	Info/Display/OSD	Onscreen Display				
MUTE	TV Mute	TV Mute	TV Mute	TV Mute				
0 - 9	0-9	0-9	0-9	0-9				
LAST		Last Channel	Last Channel	Drive Select				
<u> </u>		Sub Channel	Music	PROG (Sub Channel)				
	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward				
GAME	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch					
SEARCH	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward				
REC	VCR Record	PVR Record *1	PVR Record *1	Record				
STOP	Stop	Stop	Stop	Stop				
PAUSE II/I>	Pause	Pause	Pause	Pause				
PLAY	Play	Play	Play	Play				

# Remote Control Code List

able Conv	/erter (C) ( 🚞 )						
and S	Code	Epand	Code	Enand	Code	Erand	Code
	0003, 0007, 0008 2092	Hytex 13 Micro	1602	Philips Pioneer	0317, 1305 0144, 0533, 0877, 1877	Supercable Supermax	0276 0883
ricast io	0899 1602, 1822	Jerrold Memorex	0003, 0012, 0276, 0476, 0810	Pulsar Quasar	0000	Thomson Tocom	1256 0012,0059
iouth	0899	Motorola	0276, 0476, 0810, 1106, 1187, 1254, 1376, 1951	RadioShack	0883	Torx	0003
master Max	0883	MTS	1951	RCA Regal	0021, 1256 0273, 0279	Toshiba Tristar	0000
ic	0019	Multitech	0883	Runco	0000	United Artists	0007
nax	0883	Myrio Oak	1602, 1822 0007, 0019	Samsung Scientific Atlanta	0144 0008, 0477, 0877, 1877	V2 Viewmaster	0863 0883
tor	0476	Optimus	0021	Sejin	1602	Vision	0883
ral Instrument Star	0003, 0276, 0476, 0810 0144	Pace Panasonic	0008, 0237, 1877 0000, 0021, 0107, 0623	Sony Sprucer	0021	Vortex View Zenith	0883 0000, 0525, 0899
in	0009, 0273	Paragon	0000	Starcom	0003		
	Combination (C) (	) Iamatel	0010	Dispess	0077 1077	Supervehile	0076
icast o	0899 1822	Jerrold Motorola	0810 0810, 1106, 1187, 1376	Pioneer RCA	0877, 1877 1256	Supercable Thomson	0276
ral Instrument	1187 0810	Myrio Pace	1822 0237, 1877	Scientific Atlanta Sony	0877, 1877	Zenith	0899
	ceiver (S) (	) Boo		obily			
Star	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
xpressVu arral	0775, 1170 0216	General Instrument	0869	Memorex Mitsubishi	0724	Samsung Sanyo	1108, 1109, 1276, 1377, 1442, 10 1219
at	1806	Goodmans	1246	Motorola	0869	Sony	0639, 1639, 1640
digital V	1109 0099, 0247, 0392, 0566, 0639, 0724,	Hisense Hitachi	1535 0819, 1250	NEC Next Level	0869	Star Choice Tivo	0869
	0749, 0819, 1076, 1108, 1109, 1142, 1189, 1377, 1392, 1414, 1442, 1443,	HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1189, 1786	Toshiba	0749, 0790, 1285, 1749
	1444, 1609, 1639, 1640, 1749, 1856	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Pansat Paysat	1807 0724	UltimateTV Ultrasat	1392, 1640 1806
letwork System	0775, 1005, 1170, 1505, 1775	Humax	1781, 1790	Philips	0099,0722,0724,0749,0856,1076, 1142,1442,1749	Uniden	0722, 0724
o tar	0775, 1005, 1505, 1775 0775, 1005, 1170, 1505, 1775	iLo Janeil	1535 0152	Proscan	0392, 0566	US Digital USDTV	1535 1535
ssvu	0775, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
Star	1821, 1948 Combination (S) ( 18908 )	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
xpressVu	0775, 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
Ŵ	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
letwork System		Hughes Network Systems	1142, 1442, 1443, 1444	Proscan RCA	0392	Tivo Zenith	1142, 1442, 1443, 1444 1810
0	0775, 1505	JVC	1170	Samsung	1442		'
R (V) ( 🗂				MTO			
an	1972 0000	GE	0035, 0060, 0202, 0240, 0761, 0807, 1035, 1060, 2613	MTC Multitech	0000, 0240	Sansui Sanyo	0000, 0041, 0067, 0209, 0479, 1 0046, 0047, 0104, 0159, 0240
al	0048, 0209	Go Video	0432, 0526, 0614, 0643, 1137	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
tura	0000 0278	GoldStar Gradiente	0037, 0038, 1137, 1237 0000	Nikko Nikon	0037 0034	Sears	0000, 0035, 0037, 0042, 0046, 0 0104, 0105, 1237
	0000, 0037, 0124, 0307, 0468	Harley Davidson Harman/Kardon	0000 0038, 0075, 0081	Niveus Media Noblex	1972 0240	Sharp Shintom	0048, 0807, 0848 0072
/are	1972	Harwood	0068, 0072	Northgate	1972	Shogun	0240
a Action	1137 0278	Headquarter Hewlett Packard	0046	Olympus Onkyo	0035, 0226	Singer Sonic Blue	0072 0614, 0616, 1137
can High	0035	HI-Q	0047	Optimus	0037, 0048, 0104, 0162, 0432, 0593,	Sony	0000, 0032, 0033, 0034, 0035, 0
Dynamics	0240	Hitachi Howard Computers	0000, 0041, 0042, 0089, 0105, 2613 1972	Orion	1048, 1062, 1162, 1262 0002, 0184, 0209, 0479, 1479	Stack 9	1032, 1972
/ox	0037, 0278	HP	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616,	STS	0042
nark Howell	0240	Hughes Network Systems	0042, 0739		0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809	Sylvania	0000, 0035, 0043, 0081, 0110, 0 1593, 1781
onic	0002, 0121, 0184, 0209, 0348,	Humax	0739, 1797, 1988			Symphonic	0000, 0593, 1593
	0479, 1479	Hush	1972 1972	Penney	0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237	Systemax Tagar Systems	1972
	0035, 0102	Instant Replay	0035, 0226	Pentax	0042, 0105,	Tashiko	0037
e Works	2167	Jensen JVC	0041 0008, 0041, 0067, 2079	Philco Philips	0035	Tatung Teac	0041
	0072, 0278	KEC	0037, 0278	-	1081, 1181	Technics	0035, 0162, 0246
sion 1	1137 0037, 0278, 1278	Kenwood KLH	0038, 0041, 0067 0072	Pilot Pioneer	0037 0067, 1337	Teknika Thomas	0000, 0035, 0037
	0072	Kodak	0035, 0037	Polk Audio	0081	Tivo	0618, 0636, 0739, 1337, 1996 0208, 0240
Mathes	0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035	LG Linksys	1037, 1137, 2010 1972	Presidian Profitronic	1593 0240	TMK Toshiba	0043, 0045, 0212, 0845, 1008, 1
nex Power	0240	Lloyd's	0000, 0208 0072	Proscan Protec	0060, 0202, 0761, 1060 0072	Totevision	1972, 1988, 1996 0037, 0240
Power	0045, 0278, 0561, 0637, 1137, 1278	Logik LXI	0072	Protec	0039	Touch	1972
	0040, 0050	Magnasonic Magnavox	0593, 1278	Quarter Quartz	0046	Unitech Vector	0240
	0042		0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781	Quasar	0035, 0077, 0162, 1035, 1162	Vector Research	0038, 0040
sia V	2613 0739	Magnin Marantz	0240 0035, 0081	RadioShack Radix	0000, 1037	Video Concepts Videomagic	0040, 0045, 0061 0037
and	0038, 0039	Marta	0037	Randex	0037	Videosonic	0240
ech bhome	0000	Matsushita Media Center PC	0035, 0162, 1162	RCA	0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035,	Viewsonic Villain	1972 0000
phonic	0037	MEI	0035		1060, 2613	Voodoo	1972
x on	0032	Memorex	0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262	Realistic	0000, 0035, 0037, 0046, 0047, 0048, 0104	Wards	0000, 0035, 0042, 0047, 0048, 0 0072, 0081, 0149, 0212, 0240
011	0000, 0002, 0037, 0043, 0061, 0068, 0121, 0184, 0208, 0209, 0212, 0278, 0479, 0561, 0593, 0637, 1278,			ReplayTV	0614, 0616	White Westinghouse	0072, 0209, 0637
	1479, 1593	MGA MGN Technology	0043, 0061, 0240 0240,	Ricavision Ricoh	1972 0034	XR-1000 Yamaha	0000, 0035, 0072 0038
	1137	Microsoft	1972	Rio	1137	Zenith	0000.0033.0034.0039.0209.0
	0047, 0104	Mind Minolta	1972 0042, 0105	Runco Salora	0039	ZT Group	0637, 1137, 1139, 1479 1972
	0000, 0593, 1335, 1593	Mitsubishi	0043, 0061, 0067, 0075, 0173, 0214,	Salora	0045, 0240, 0739, 1014		
rd	0000		0242, 0443, 0807	Samtron	0643		

# Remote Control Operation/Code List (Continued)

#### Remote Control Code List

rand ecTV	0739	Brand Hughes Network	Code 0739	Brand Philips	Code 0739	Erand Tivo	Code 0739
		Systems		Samsung	0739	ino	10,00
	order (V) ( 📩 )						
navox VR (V) (	COCO DESICAL						
;	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
nware otive Works	1972 2167	Systems Humax	0739, 1797, 1988	Panasonic Philips	0614, 0616, 1807, 1808, 1809 0618, 0739	Tivo Toshiba	0618, 0636, 0739, 1337 1008, 1972, 1988, 1996
erPower	1972	Hush	1972	Pioneer	1337	Touch	1972
I acTV	1972 0739	IBUYPOWER	1972 2010	RCA ReplayTV	0880	Viewsonic Voodoo	1972 1972
eway	1972	Linksys	1972	Samsung	0739	ZT Group	1972
Video vlett Packard	0614 1972	Media Center PC Microsoft	1972	Sonic Blue Sony	0614, 0616 0636, 1972		
vard Computer		Mind	1972	Stack 9	1972		
	1972 DVD	Niveus Media	1972	Systemax	1972		
VD (Y) ( urian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Course of	0698, 0752
om	1094	Enterprise	0591	Marantz	0539	Sampo Samsung	0199, 0490, 0573, 0820, 0899,
3	0641	ESA Fisher	1268 0670	McIntosh	1273	A-222	1075, 1470
i	0695, 0770, 0899, 1089 0790	Funai	0675, 1268, 1334	Memorex Microsoft	0695, 0831, 1270 0522, 1708, 2083	Sansui Sanyo	0695 0670, 0695, 0873
gro vhion Media W	0869	Gateway	1073, 1077, 1158	Mintek	0717,0839,1472	Sensory Science	1158
v V	Vorks 0872, 1245 0872, 1245	GE Go Video	0522, 0717, 0815 0715, 0741, 0744, 0783, 0833,	Mitsubishi Momitsu	1082	Sharp Sharper Image	0630, 0675, 0752, 1256
Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730	NAD	0692, 0741	Sherwood	0633, 0770, 1043, 1077
ŝ	1023	Go Vision	1072	Nakamichi NEC	1222 0785	Shinsonic Sigma Designs	0533,0839 0674
re Digital	1168, 1407	GoldStar	0741	Nesa	0717	Sonic Blue	0869, 1099
r ologic	1678, 1679 0736	GPX Greenhill	0699,0769 0717	Next Base NexxTech	0826	Sony	0533, 0864, 1033, 1069, 1070, 1432, 1433, 1516, 1533, 1536,
iovox	0790, 1041, 1072, 1121, 1122	Harman/Kardon	0582, 0702	Norcent	0872, 1003, 1107, 1265		1791, 1824, 1892, 1903, 1904, 1981, 2020, 2043
n K	0655, 0662	Helios Helio Kitty	2080	Nova Onkyo	1517 0503, 0627, 0792, 1769	Sova	1122
	1224	Hitachi	0573, 0664, 1247	Орро	0575, 1224 1525	Sungale	1074
Canto Design punkt	0717	Hiteker Humax	0672 1500, 1588	OptoMedia Electronics Oritron	0896	SVA Sylvania	0860, 1105 0675, 1268
Parade	0571	iLo	1348, 1472	Panasonic	0458, 0490, 0632, 0703, 1010, 1011, 1362, 1462, 1464, 1490, 1641, 1762,	Symphonic	0675
sonic S	0695, 1419 1057	Initial Insignia	0717, 1472 1268, 2095		1907, 1908, 1909, 1910, 1925, 1986, 1990, 2017, 2060, 2061, 2062	TAG McLaren Teac	0894 0790
ea	0831	Integra	0627			Technics	0490, 0703
ego eVision	1399 0833, 0869, 0876	Jaton JBL	1078 0702	Philco Philips	0675 0503, 0539, 0646, 0675, 1267, 1340,	Technosonic Techwood	0730 0692
ien	0695, 1277, 1587, 2116	JSI	1423	,po	1354, 2056, 2084	Terapin	1031
y	0778, 0852, 1086, 1107, 1165, 1177, 1351, 1628	JVC	0558, 0623, 0867, 1164, 1275, 1550, 1602	Pioneer Polaroid	0142, 0525, 0571, 0631, 0632, 1571 1020, 1061, 1086, 1245, 1316,	Theta Digital	0571 1503
ig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1608, 1769, 1854
tis Mathes erHome	1087 0816,0874,1023,1024,1117,1129,	Kawasaki Kenwood	0790 0490, 0534, 0682	Polk Audio Portland	0539	Tredex	0799, 0800, 0803, 0804
entome	1502, 1537	KLH	0717, 0790, 1020, 1149	Presidian	0675, 1072	Urban Concepts	0503
W00	0705, 0784, 0833, 0869, 1169, 1172, 1234, 1242, 1441	Konka Koss	0711, 0721 0651, 0896, 1423	Princeton Proscan	0674 0522	US Logic Venturer	0839 0790
on	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
ay 1ond Vision	1407	Lasonic	0798, 1173	Qwestar RCA	0651 0522, 0571, 0717, 0790, 0822, 1022,	Vocopro Xbox	1027, 1360 0522, 1708, 2083
iey	0675, 1270	Lenoxx LG	0591, 0741, 0869	NCA .	1132, 1769	Xwave	1001
l abrand	1068, 1085	LiteOn Loewe	1058, 1158, 1416, 1440, 1656 0511	Rio RJTech	0869	Yamaha Zenith	0490, 0497, 0539, 0545 0503, 0591, 0741, 0869
02000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotei	0623, 1178	Zoece	1265
trohome	2116 IV0		1472, 1506	Rowa	0823		
	order (Y) (						
urian x Digital	0675, 1416	Funai Gateway	0675, 1334 1073, 1158	Panasonic Philips	0490, 1010, 1011, 2060, 2061, 2062 0646, 1340	Sony	1033, 1069, 1070, 1431, 1432, 1433, 1536
ire Digital	1168	Go Video	0741, 1158, 1304, 1730	Pioneer	0631	Sylvania	0675
isonic en	2116	ILo JVC	1348 1164, 1275	Polaroid RCA	1086, 2130 0522	Toshiba Zenith	1588 0741
/	1086	LG	0741	Samsung	0490, 1470		
erHome Irohome	1129, 1502 2116	LiteOn Magnavox	1158, 1416, 1440 0646, 0675, 1506	Sensory Science Sharp	1158 0675		
u-ray D							
	0741	Philips	2084	Samsung	0199		
isonic	1641, 2061, 2062	Pioneer	0142	Sony	1516		
D-DVD	(Y) ()		1200	504	4700		Pros
THP AVA-	0741	Onkyo	1769	RCA	1769	Toshiba	1769
TiB (Y)	0641	Panasonic	0458 1779 1907 1908 1909 1910	Rio	0869	Teac	0790
iovox	0790		0458, 1779, 1907, 1908, 1909, 1910, 1925, 1990, 2017	Sherwood	1077	Toshiba	1854
s	0790 0651	Philips Polk Audio	1267 0539	Sonic Blue Sony	0869 1824, 1892, 1903, 1904, 1934, 1981,	Venturer Yamaha	0790 0497
-	0651	RCA	0790	Sony	2020, 2043	, an rice to	10.07

# **Ratings List for Lock**

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

### U.S. MOVIE RATINGS (MPAA)

NR	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie which has not been rated or where rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	
PG-13	
R	
	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><li>Viewable</li><li>Blocked</li></ul>	Not Rated.
	TV-Y	<ul> <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.
Youth	TV-Y7	<ul> <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.
	TV-G	<ul> <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> <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.
Guidance	TV-14	<ul> <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> <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.
С	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

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

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

### Caution

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

• Emergency Bulletins (Such as EAS messages, weather warnings and others)

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

# **Technical Information**

# **Closed Caption (CC)**

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

Q

If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

# **Aspect Ratio (FORMAT)**

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference, (p. 17)

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

FULL



6 q

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



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

ZOOM



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

#### Zoom adjust

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

- ① Select "Zoom adjust" on the "Picture" menu. (p. 24-25)
- ② V-position: Vertical position adjustment ③ V-size: Vertical size adjustment



To reset the aspect ratio





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

(Recommended for normal TV broadcast)



Standard

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

### Note

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

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																							<u> </u>	.8

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 camera file system): A Japan Electronics and Information Technology Industries Association's standard

#### Caution

A JPEG image modified with a PC may not be displayed.

Partly degraded files might be displayed at a reduced resolution.

#### Note

Folder structure viewed in PC

DCIM	-Created automatically
100_PANA	-3-digit folder number + 5-digit arbitrary characters
– P1000001.JPG – P1000002.JPG – P1000003.JPG – P1000004.JPG	-4-digit arbitrary characters + 4-digit file number ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
The folder and file names may be	e different depending on the digital camera used

- 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.co.jp/pavc/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.)

### SD Card warning messages



### GalleryPlayer warning messages

Cannot display image due to incorrect ID data.	<ul> <li>There is a problem with your TV decoder.</li> <li>If this message appears, please contact Panasonic Service Center for assistance.</li> </ul>
	Refer to page 55 (Customer Services Directory), page 54, 56 (Limited Warranty)
Cannot display image on SD card.	There is a problem with the data. Check the data inside the SD card.

# Viewing from a GalleryPlayer SD Card

You can view high-definition art and photography purchased on or downloaded to an SD card. GalleryPlayer provides pre-loaded SD cards with copy-protected imagery and images for download to your computer that can be saved on an SD card for display on your television.

GalleryPlayer images are available for a fee from GalleryPlayer, Inc.

\*\* EXIF (Exchangeable Image File Format)

FAQs, etc.

# Technical Information (Continued)

# VIERA Link<sup>™</sup> "HDAVI Control<sup>™</sup>"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 28)
- 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 more than "HDAVI Control 2" (or more) function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) 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", "HDMI 3 in" or "HDMI 4" menu screen. (p. 24) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

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

#### Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "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 below.

### **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.
- External speakers cannot be connected directly to PROG OUT terminals.
- 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. See pages 40-41 for more information

#### 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.
- THX (Cinema): Faithfully reproduces the image quality that the movie makers intended in order to provide the ultimate cinematic experience at home.
  - Cinema is displayed in JPEG and PC mode.
- Custom (Photo): Customizes each item according to your taste.
  - Photo is displayed in JPEG mode.
- Game: For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 37)

#### Note

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



31.47	70.08		*
31.47	59.94		*
35.00	66.67		*
37.50	75.00	· · · · · · · · · · · · · · · · · · ·	*
31.47	59.94		*
37.88	60.32		*
46.88	75.00		*
53.67	85.08		*
49.73	74.55		*
48.36	60.00		*
56.48	70.07		*
60.02	75.03	N	*
68.68	85.00		*
68.68	75.06		*
63.98	60.02		*
48.36	60.00		*

Note

640 × 480 @60

640 × 480 @75 852 × 480 @60

800 × 600 @60

800 × 600 @75

800 × 600 @85

1,024 × 768 @60

1,024 × 768 @70

1,024 × 768 @75

1.024 × 768 @85

1,280 × 1,024 @60

1,366 × 768 @60

Macintosh13" (640 × 480)

Macintosh16" (832 × 624)

Macintosh 21" (1,152 × 870)

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

(1) 12 13 14 15)
678910

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
	R	1	GND (Ground)	$\mathbb{C}$	NC (not connected)
2	G		GND (Ground)	<u>_12</u>	NC
3	В	8. 8. 8.	GND (Ground)	13	HD/SYNC
<u> </u>	NC (not connected)	<u> </u>	NC (not connected)	14	VD
5	GND (Ground)		GND (Ground)	15	NC

Pin Layout for PC Input Terminal

# 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. 55, 56) For additional assistance, please contact us via the website at: www.panasonic.com/contactinfo www.panasonic.ca



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).



FAQs, etc.

# **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 Plasma 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.)

# **Specifications**

			TH-58PZ800U				
Power Source		AC 120 V, 60 Hz					
Con	Maximum	734 W					
Power	Standby condition	0.2 W					
Plasma Display panel	Drive method	AC type					
	Aspect Ratio	16:9					
	Visible screen size	58 " class (58.0 inches measured diagonally)					
	(W × H × Diagonal)	50.5 " × 28.4 " × 58.0 " (1,284 mm × 723 mm × 1,474 mm)					
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]					
Sound	Audio Output	Super Slim SP (2.5 W) × 2, Woofer (13 W) × 2					
PC signals Channel Capability (Digital/Analog)		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz VHF/UHF: 2 - 69, CATV: 1 - 135					
							Dpe
Connection Terminals	VIDEO IN 1-2	VIDEO: S-VIDEO: AUDIO L-R:	RCA PIN Type × 1         1.0 V [p-p] (75 Ω)           Mini DIN 4-pin         Y: 1.0 V [p-p] (75 Ω)         C: 0.286 V [p-p] (75 Ω)           RCA PIN Type × 2         0.5 V [rms]         C: 0.286 V [p-p] (75 Ω)				
	COMPONENT INPUT 1-2	Y: Рв, Pr: AUDIO L-R:	1.0 V [p-p] (including synchronization) ±0.35 V [p-p] RCA PIN Type × 2 = 0.5 V [rms]				
	HDMI 1-4	TYPE A Connector × 4 This TV supports "HDAVI Control 3" function.					
	PC	D-SUB 15PIN: AUDIO L-R:	R,G,B/0.7 V [p-p] (75 Ω) HD, VD/1.0 - 5.0 V [p-p] (high impedance) Stereo Mini Jack (Φ3.5 mm) × 1				
nal	Card slot	SD CARD slot ×					
S	AV PROG OUT	VIDEO: AUDIO L-R:	RCA PIN Type × 1				
	DIGITAL AUDIO OUT	PCM/Dolby Digi	ital, Fiber Optic				
EA	TURES	3D Y/C FILTER V-Chip Photo viewer	CLOSED CAPTION BBE VIVA 3D HDAVI Control 3				
Dimer	Including pedestal	56.9 " × 37.4 " × 16.2 " (1,445 mm × 949 mm × 409 mm)					
Dimensions	TV Set only	56.9 " × 35.4 " × 4 (1,445 mm × 898					
N.	Including pedestal	136.9 lb. (62.1 k	(g)				
Mass	TV Set only	128.1 lb. (58.1 k	(2)				

#### [TH-58PZ800U]



Note

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

# Limited Warranty (for U.S.A.)

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF PANASONIC CORPORATION OF NORTH AMERICA One Panasonic Way Secaucus, New Jersey 07094 PANASONIC SALES COMPANY, DIVISION OF PANASONIC PUERTO RICO, INC. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

# Panasonic Color Television Limited Warranty

#### Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively 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 ("Limited 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.

CATEGORIES	ALL PARTS EXCEPT GLASS PANEL OR CRT	LABOR	GLASS PANEL OR CRT	GLASS PANEL OR CRT LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	GLASS PANEL - 2 (TWO) YEARS	1 (ONE) YEAR	ON-SITE OR CARRY-IN

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited 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 Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

#### On-Site or Carry-in Service

For On-Site or Carry-In Service in the United States call 1-877-95-VIERA (1-877-958-4372). For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

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 Limited 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 picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or onn-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

#### THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED 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 LIMITED 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 Limited Warranty lasts, so the exclusions may not apply to you.

This Limited 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 Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

# Customer Services Directory (for U.S.A.)

# **Customer Services Directory**

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**

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

# Service in Puerto Rico

Panasonic Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787)750-4300, Fax (787)768-2910

# 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.

Plasma TV / Monitor	In-home service	One (1) year, parts (including Plasma Panel) and labour.
LCD TV (26 in & over)	In-home service	One (1) year, parts (including LCD 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.

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#### 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. **Panasonic Puerto Rico, Inc.** Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

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