

Operating Instructions 42"/46"/50" Class 1080p Plasma HDTV

(41.6/46.0/49.9 inches measured diagonally)

Manual de instrucciones

Televisión de alta definición de 1080p y clase 42"/46"/50" de Plasma (41,6/46,0/49,9 pulgadas medidas diagonalmente)

Número de modelo

Model No. TH-42PZ85U TH-46PZ85U TH-50PZ85U



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), llame al: 787-750-4300 ó visítenos en www.panasonic.com











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

Español

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

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





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HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

VIERA Link[™] is a trademark of Matsushita Electric Industrial Co., Ltd.

VIECA Link



FAQs, etc.

Enjoy rich multimedia





Contents

Please read before using the unit

Safety Precautions	4
Notes ·····	5

Quick Start Guide

Accessories/Optional Accessory	• 6
Basic Connection	. 9
Identifying Controls	13
● First Time Setup ·····	14

Enjoy your TV! Basic Features

Watching TV	16
Viewing from SD Card	18
Watching Videos and DVDs	20
Displaying PC Screen on TV	22

Advanced Features

How to Use Menu Functions	
(picture, sound quality, etc.) 24	4
VIERA Link [™] "HDAVI Control [™] " ······ 28	3
Lock32	2
Editing and Setting Channels 34	4
Closed Caption	5
Input Labels/Monitor Out	7
Using Timer 38	3
Operating Peripheral Equipment	9
Recommended AV Connections40)

FAQs, etc.

Remote Control Operation/Code List	42
Ratings List for Lock	45
Technical Information	46
• FAQ	50
Care and Cleaning	52
Specifications	53
Limited Warranty (for U.S.A.)	54
Customer Services Directory (for U. S. A.)	55
Limited Warranty (for Canada)	56

Safety Precautions





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

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

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

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.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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 grounding 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, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corporation of North America could cause harmful interference and would void the user's authority to operate this device.

FCC Declaration of Conformity Model No. TH-42PZ85U, TH-46PZ85U, TH-50PZ85U

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

CANADIAN NOTICE:

For Model TH-42PZ85U, TH-46PZ85U, TH-50PZ85U

This Class B digital apparatus complies with Canadian ICES-003.

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 Mateushita Electric Industrial Co. 1 td.)

Matsushita Electric Industrial Co., Ltd.)

- Wall-hanging bracket (Vertical) TY-WK42PV4W
- Wall-hanging bracket (Angled) TY-WK42PR4W

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

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







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.
- 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 physically damaged.

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

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

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

Accessories/Optional Accessory (Continued)



AC cord connection



Cable Binding Instructions



Reference of connection



• Firmly tighten by hand.

Pin terminals



Match colors of plugs and terminals.Insert firmly.



Insert firmly.

Basic Connection

Example 1

Connecting Antenna (To watch TV)

тν



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 (Antenna + TV

Basic Connection (Continued)

Example 2

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

TV



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. VCR

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

To connect the 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.



Note

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

Basic Connection (Continued)

AV cable connections



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 for the equipment.

Identifying Controls



Note

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



• •

Identifying Controls Basic Connection (AV cable connections)

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".





Press to exit from a menu screen EXIT

(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
 - Digital (ATSC):
 - Analog (NTSC): Conventional broadcasting New programming that allows you to view more channels featuring high-quality video and sound

Start

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.



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.)





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 of the equipment. (p. 39)



(For other operations, see p. 42)

VIERA Link[™] 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 4 (p. 24)

Menu	enu Item		Adjustments/Configurations (options)		
		Reset	Resets PC adjust		
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 49) On G: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 49) 		
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.		
	PC adjust	H-position	Adjusts the horizontal position.		
Picture		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

SD card

CC

Card CC 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.



Adjustments/Configurations (alternatives)					
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote control (p. 30-31). [VIERA Link control] Solects equipment to access and operate (Recorder/Home theater/Player/Cameerder) (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 buildon on the rem					
Resets all picture adjustments to factory default settings except for Advanced pic	aure.	Reset			
Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 48)		Picture mode	Vivid		
 Display range 	Picture +20	Tint	0		
Picture/Brightness/Color/Sharpness: 0 - 100	Color 0	Snarpness	U		
Selects a choice of Cool (blue) Normal or Warm (red) color (Cool/Normal/Warm	n)	Color temp	Cool		
On: Enhances green and blue color reproduction, especially outdoor scenes. (Or	, η/Off)	Color mamt	000		
Auto: Provide the appropriate picture when images corresponding to "x.v.Color" a	are input via the HDMI				
input of this TV. (Off/Auto)		x.v.Color	Auto		
Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On)		C.A.T.S.	Off		
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46)		Zoom adjust			
Sets PC display (p. 22)		PC adjust			
Reduces noise, commonly called snow. Leave it off when receiving a strong signa	al. (Off/On)	Video NR	Off		
Minimizes noise and cross-color in the picture. (On/Off)		3D Y/C filter	On		
 Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. 		Color matrix	SD		
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)		MPEG NR	Off		
Selects Dark or Light. Valid only for external input signals. (Dark/Light)		Black level	Light		
 Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definitio Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% 	n signal. (Size 1/ Size 2)	HD size	Size1		
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	On		
Enhances audio response when listening to stereo. (On/Off)		Surround	Off		
 Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". 		Bass boost	Off		
Minimizes volume disparity after switching to external inputs		Audio leveler	0		
Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected 		Speaker output	On		
The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input sigr (Digital/Component 1/Component 2/Video 1/Video 2/PC)	nal)	HDMI1 in HDMI2 in HDMI3 in	Digital Digital Digital		
The TV can automatically turn On/Off at the designated date and time (p. 38)		Sleep	60		
Locks the channels and programs (p. 32)					
Displays SD card data (p. 18-19)		SD card			

Displays subtitles (Closed Caption) (p. 36)

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

25

CC

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)

Adjustments/Configurations (alternatives)				
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) • Favorite: Only channels registered as FAVORITE (p. 17)	Surf mode All			
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/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)				
 Prevents "Image retention" with Wobbling. (Automatic/Force) Automatic: Shifts the display image automatically. Force: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time" menu. 	Pixel orbiter Automatic			
Sets the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time 4			
Change the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 mode only) The recommended setting is "Bright" to prevent panel "Image retention". (p. 49) 	Side bar Bright			
Press "OK" to start horizontal "Scrolling" on the screen (p. 49)	Scrolling bar			
Controls equipment connected to HDMI terminals (p. 28) (On/Off) • "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	VIERA Link On			
Sets "Power off link" of HDMI connection equipment (p. 28) (Set/No)	Power off link Set			
Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No)	Power on link Set			
Selects the default speakers (p. 28) (TV/Theater)	Default speakers TV			
 Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 38) 	Auto power on No			
 To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel. "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". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 	No signal shut-off Set			
 To conserve energy, the TV automatically turns off when no operation of remote or side panel key continues for more than 3 hours. (No/Set) Note Not in use when setting "Auto power on" or "On/Off Timer" or PC input display. "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". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 	No action shut-off No			
Set "On" to play back SD cards automatically. (On/Off)	Play SD card automatically On			
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 select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) Sets favorite channels. (p. 17) Displays Closed Caption. (p. 36) (Off/On) Changes the station identifier. (p. 35)

Checks the signal strength if interference or freezing occurs on a digital image. (p. 35)

(picture, sound quality, etc.)

Advanced

VIERA Link[™] "HDAVI Control[™]"*



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 cable.

Transm	Recorder	Home theater	Player	
 On Screen Displ (English/Españo 	0	0	0	
② Panel Aspect Ra (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 the detail on 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[™] "HDAVI Control[™]"*

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



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 connected.

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



Home theater: Adjustment for equipment

Volume up / down



- Mute
- 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)



(1)select (2) change

You can select available items only.

Available TV's remote control buttons

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

Advanced

VIERA LinkTM "HDAVI ControlTM"

③ Operate the equipment with the TV's remote control, pointing it at the TV.

To operate the equipment, read the manual of 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.

2)Select "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.





45%

Peak level

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.

Operating Peripheral Equipment

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

To find a code not listed in the code list

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

After step ■ above, change the code and test

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.

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

playback operate.

- 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

If connection (or setting) of equipment compatible with HDAVI

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

can correctly recognize the connected equipment) and check

that DVD recorder (DIGA), RAM theater, and Plaver theater

control is changed, switch the power of this unit Off and On

When using an "VIERA Link" audiovideo 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.

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

Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link 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.)
- About HDMI cable for connecting Panasonic HD camcorder, read the manual of the equipment.

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 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.

		DBS/CBL MODE		
		(DBS)	(CBL)	DVDWIODE
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
<pre>(OK) ►</pre>	_	Select	Select	Enter
	_	Guide	Guide	Sub Menu
RETURN	_	PPV/VOD	PPV/VOD	Return
R	_	Red	A	Red
G	_	Green	В	Green
B	_	Blue	С	Blue
Y	_	Yellow	D	Yellow
~ н ~	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
+ vol. -	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
-	_	Sub Channel	Music	PROG (Sub Channel)
	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR GAME	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	_
	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	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

Remote Control Code List

Cable Conv	erter (C) (🥅)						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABC	0003, 0007, 0008	Hytex	0007	Philips	0317, 1305	Supercable	0276
ADB	2092	I3 MICRO	1602	Pioneer	0144, 0533, 0877, 1877	Thomson	1256
Amino	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012.0059
Bell South	0899	Motorola	0276, 0476, 0810, 1106, 1187,	RadioShack	0883	Torx	0003
Clearmaster	0883		1254, 1376, 1951	RCA	0021, 1256	Toshiba	0000
ClearMax	0883	MTS	1951	Regal	0273, 0279	Tristar	0883
Contec	0019	Multitech	0883	Runco	0000	United Artists	0007
Digeo	1187	Oak	0007 0019	Scientific Atlanta	0144	VZ	0883
Director	0476	Optimus	0021	Seiin	1602	Vision	0883
General Instrument	0003, 0276, 0476, 0810	Pace	0008, 0237, 1877	Sony	1006	Vortex View	0883
GoldStar	0144	Panasonic	0000, 0021, 0107, 0623	Sprucer	0021	Zenith	0000, 0525, 0899
Hamlin	0009, 0273	Paragon	0000	Starcom	0003		
Cable/PVR (Combination (C) ()					
Americast	0899	Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
Amino	1822	Motorola	0810, 1106, 1187, 1376	RCA	1256	Thomson	1256
Digeo	1187	Myrio	1822	Scientific Atlanta	0877, 1877	Zenith	0899
General Instrument	US10	Pace	0237, 1877	Sony	1006		
Satellite Red	ceiver (S) (💼)						
AlphaStar	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
Bell ExpressVu	0775, 1170	General Instrument	0869	Memorex	0724	Samsung	1108, 1109, 1276, 1377, 1442, 1609
Coolsat	1806	Goodmans	1246	Motorola	0749	Sanyo	0639 1639 1640
Crossdigital	1109	Hisense	1535	NEC	1270	Star Choice	0869
DirecTV	0099, 0247, 0392, 0566, 0639, 0724,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
	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	1807	UltimateTV	1392, 1640
Dish Notwork Custor	0775 1005 1170 1505 1775	Humay	1791 1700	Paysat	0/24	Ultrasat	1806
Dish Network System	0775 1005 1170, 1505, 1775	il o	1761, 1790	Fniiips	1142, 1442, 1749	US Digital	1535
Echostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	USDTV	1535
Expressvu	0775, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
Fortec Star	1821, 1948	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
DBS/PVR C	ombination (S) (
Bell ExpressVu	0775. 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sonv	0639, 1640
DirecTV	0099, 0392, 0639, 1076, 1142, 1377,	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
	1392, 1442, 1443, 1444, 1640	Hughes Network	1142, 1442, 1443, 1444	Proscan	0392	Tivo	1142, 1442, 1443, 1444
Dish Network System	0775, 1505	Systems		RCA	1392	Zenith	1810
Dishpro	0775, 1505	JVC	1170	Samsung	1442		
VCR (V) ()						
ABS	1972	GE	0035, 0060, 0202, 0240, 0761, 0807,	MTC	0000, 0240	Sansui	0000, 0041, 0067, 0209, 0479, 1479
Accurian	0000	0.1/11.	1035, 1060, 2015	Multitech	0000, 0072	Sanyo	0046, 0047, 0104, 0159, 0240
Admiral	0048, 0209	G0 VIDe0	0432, 0526, 0614, 0643, 1137	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
Aiko	0278	Gradiente	0000	Nikon	0034	Jears	0104, 0105, 1237
Aiwa	0000, 0037, 0124, 0307, 0468	Harley Davidson	0000	Niveus Media	1972	Sharp	0048, 0807, 0848
Akai	0041, 0061, 0106, 0175, 0242	Harman/Kardon	0038, 0075, 0081	Noblex	0240	Shintom	0072
Alienware	1972	Harwood	0068, 0072	Northgate	1972	Shogun	0240
Allegro	1137	Headquarter	0046	Olympus	0035, 0226	Singer	0072
America Action	0278	Hewlett Packard	1972	Onkyo	0222	Sonic Blue	0614, 0616, 1137
Asha	0240	Hitachi	0000, 0041, 0042, 0089, 0105, 2613	Optimus	1048, 1062, 1162, 1262	Sony	1032, 1972
Audio Dynamics	0040	Howard Computers	1972	Orion	0002, 0184, 0209, 0479, 1479	Stack 9	1972
Audiovox	0037, 0278	HP	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226,	STS	0042
Beaumark	0240	Hughes Network	0042, 0739		0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262,	Sylvania	0000, 0035, 0043, 0081, 0110, 0593,
Bell & Howell	0104	Systems	0700 1707 1000		1562, 1807, 1808, 1809	0	1333, 1701
Broksonic	0002, 0121, 0184, 0209, 0348, 0479, 1479	Humax	0/39, 1/97, 1988	Donnov	0025 0027 0028 0040 0042 0240	Symphonic	0000, 0593, 1593
Calix	0037	iBUYPOWER	1972	. crinicy	1035, 1237	Tagar Systems	1972
Canon	0035, 0102	Instant Replay	0035, 0226	Pentax	0042, 0105,	Tashiko	0037
Captive Works	2167	Jensen	0041	Philco	0035	Tatung	0041
Carver	0081	JVC	0008, 0041, 0067, 2079	Philips	0035, 0081, 0110, 0618, 0739,	Teac	0000, 0041
CCE Cine//inion	0072, 0278	KEC	0037, 0278	Dilot	0027	Teknika	0035, 0162, 0246
Citizen	0037, 0278, 1278	KLH	0036, 0041, 0067	Pioneer	0067. 1337	Thomas	0000, 0033, 0037
Colt	0072	Kodak	0035, 0037	Polk Audio	0081	Tivo	0618, 0636, 0739, 1337, 1996
Craig	0037, 0047, 0072, 0240	LG	1037, 1137, 2010	Presidian	1593	ТМК	0208, 0240
Curtis Mathes	0035, 0041, 0060, 0162, 1035	Linksys	1972	Profitronic	0240	Toshiba	0043, 0045, 0212, 0845, 1008, 1145,
Cybernex	0240	Lloyd's	0000, 0208	Proscan	0060, 0202, 0761, 1060		1972, 1988, 1998
CyberPower	19/2	Logik	00/2	Protec	0072	Touch	0037, 0240
DRX	0040, 0278, 0561, 0637, 1137, 1278	Magnasopic	0593 1278	Quarter	0039	Unitech	0240
Dell	1972	Magnavox	0000, 0035, 0039, 0081, 0110, 0149.	Quartz	0046	Vector	0045
Denon	0042	, in the second s	0563, 0593, 1335, 1593, 1781	Quasar	0035, 0077, 0162, 1035, 1162	Vector Research	0038, 0040
Dimensia	2613	Magnin	0240	RadioShack	0000, 1037	Video Concepts	0040, 0045, 0061
DirecTV	0739	Marantz	0035, 0081	Radix	0037	Videomagic	0037
Durabrand	0038, 0039	Marta	0037	Randex	0037	Videosonic	0240
Electrohome	0000	Media Center PC	1972	RUA	0202, 0240, 077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035,	Villain	1972
Electrophonic	0037	MEI	0035		1060, 2613	Voodoo	1972
Emerex	0032	Memorex	0000, 0035, 0037, 0039, 0046, 0047.	Realistic	0000, 0035, 0037, 0046, 0047,	Wards	0000, 0035, 0042, 0047, 0048, 0060.
Emerson	0000, 0002, 0037, 0043, 0061, 0068,		0048, 0104, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1263		0048, 0104		0072, 0081, 0149, 0212, 0240
	0121, 0184, 0208, 0209, 0212, 0278, 0479, 0561, 0593, 0637, 1278.		00 10, 0110, 1001, 1102, 1201, 1202	ReplayTV	0614, 0616	White Westinghouse	0072, 0209, 0637
	1479, 1593	MGA	0043, 0061, 0240	Ricavision	1972	XR-1000	0000, 0035, 0072
EQA	1107	MGN Technology	0240,	Ricoh	0034	Yamaha	0038
ESA	0047_0104	Mind	1972	Runco	0039	∠enitn	0637, 1137, 1139, 1479
Fuii	0033.0035	Minolta	0042, 0105	Salora	0075	ZT Group	1972
Funai	0000, 0593, 1335, 1593	Mitsubishi	0043, 0061, 0067, 0075, 0173, 0214,	Samsung	0045, 0240, 0739, 1014		
Garrard	0000		0242, 0443, 0807	Samtron	0643		
Gateway	1972	Motorola	0035, 0048	Sanky	0039, 0048		

Remote Control Operation/Code List (Continued)

Remote Control Code List

DBS/PVR Co	ombination (V) (🚞)						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
DirecTV	0739	Hughes Network Systems	0739	Philips	0739	Tivo	0739
	lor ()() (DBS/CBL)			Samsung	0739		
Magnayox							
PVR (V) (BL)						
ABS	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
Alienware	1972	Systems		Panasonic	0614, 0616, 1807, 1808, 1809	Tivo	0618, 0636, 0739, 1337
Captive Works	2167	Humax	0739, 1797, 1988	Philips	0618, 0739	Toshiba	1008, 1972, 1988, 1996
CyberPower	1972	IBUYPOWER	1972	Pioneer	1337	Viewsonic	1972
DirecTV	0739	LG	2010	ReplayTV	0614, 0616	Voodoo	1972
Gateway	1972	Linksys	1972	Samsung	0739	ZT Group	1972
Go Video	0614	Media Center PC	1972	Sonic Blue	0614, 0616		
Hewlett Packard Howard Computers	1972	Microsoft	1972	Sony Stack 9	0636, 1972		
HP	1972	Niveus Media	1972	Systemax	1972		
	,)						
Accurian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo	0698, 0752
Adcom	1094	Enterprise	0591	Marantz	0539	Samsung	0199, 0490, 0573, 0820, 0899, 1044,
Aiwa	0641	ESA	1268	McIntosh	1273	0	10/5, 14/0
Akai	0695, 0770, 0899, 1089	Fisher	0670	Memorex	0695, 0831, 1270	Sansui	0695
Allegro	0869	Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science	1158
Amphion Media Works	0872, 1245	GE	0522, 0717, 0815	Mitsubishi	0521, 1521	Sharp	0630, 0675, 0752, 1256
AMW	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158	Momitsu	1082	Sharper Image	1117
Apex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		1304, 1730	NAD	0692, 0741	Sherwood	0633, 0770, 1043, 1077
Arrao	1023	Go Vision	1072	NEC	0785	Sigma Designs	0674
Aspire Digital	1168, 1407	GoldStar	0741	Nesa	0717	Sonic Blue	0869, 1099
Astar	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony	0533, 0864, 1033, 1069, 1070, 1431,
Audiologic	0736	Greenhill	0717	NexxTech	1402		1432, 1433, 1516, 1533, 1536, 1548, 1791, 1824, 1892, 1903, 1904, 1934,
Audiovox	0790, 1041, 1072, 1121, 1122	Harman/Kardon	0582,0702	Norcent	0872, 1003, 1107, 1265		1981, 2020, 2043
B & K	0655, 0662	Hello Kitty	0831	Onkvo	0503, 0627, 0792, 1769	Sova	1122
BBK	1224	Hitachi	0573, 0664, 1247	Орро	0575, 1224 1525	Sungale	1074
Bel Canto Design	1571	Hiteker	0672	OptoMedia Electronic	s 0896	SVA	0860, 1105
Blaupunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
Blue Parade Broksopic	0571	IL0	1348, 1472	Panasonic	1362, 1462, 1464, 1490, 1641, 1762,	Symphonic TAG McLaron	0894
CAVS	1057	Insignia	1268, 2095		1907, 1908, 1909, 1910, 1925, 1986, 1990, 2017, 2060, 2061, 2062	Teac	0790
Cinea	0831	Integra	0627		1000, 2011, 2000, 2001, 2002	Technics	0490, 0703
Cinego	1399	Jaton	1078	Philco	0675	Technosonic	0730
CineVision	0833, 0869, 0876	JBL	0702	Philips	0503, 0539, 0646, 0675, 1267, 1340,	Techwood	0692
Coby	0695, 1277, 1587, 2116	JSI	1423	Pioneer		Theta Digital	0571
CODY	1351, 1628	000	1550, 1602	Polaroid	1020, 1061, 1086, 1245, 1316,	Tivo	1503
Craig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1588,
Curtis Mathes	1087	Kawasaki	0790	Polk Audio	0539		1608, 1769, 1854
CyberHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537	Kenwood	0490, 0534, 0682	Portland	0770	Tredex	0799, 0800, 0803, 0804
Daewoo	0705 0784 0833 0869 1169 1172	Konka	0717, 0790, 1020, 1149	Presidian	0674	US Logic	0839
Bachoo	1234, 1242, 1441	Koss	0651, 0896, 1423	Proscan	0522	Venturer	0790
Denon	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
Desay	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
Diamond Vision	1316	Lenoxx	0591 0741 0869	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox	0522, 1708, 2083
Dual	1068, 1085	LiteOn	1058, 1158, 1416, 1440, 1656	Rio	0869	Yamaha	0490, 0497, 0539, 0545
Durabrand	1127	Loewe	0511	RJTech	1360	Zenith	0503, 0591, 0741, 0869
DVD2000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
Electrohome	2116		1472, 1506	Rowa	0823		
DVD-Record	der (Y) (🚞)						
Accurian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432,
Apex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340	0.1	1433, 1530
Aspire Digital Broksonic	1419	il o	1348	Ploneer	1086 2130	Toshiba	1588
Citizen	2116	JVC	1164, 1275	RCA	0522	Zenith	0741
Coby	1086	LG	0741	Samsung	0490, 1470		
CyberHome	1129, 1502	LiteOn	1158, 1416, 1440	Sensory Science	1158		
Electrohome	2116 DVD	Magnavox	0646, 0675, 1506	Sharp	0675		
Blu-ray Disc	: (Y) (🗂)						
LG	0741	Philips	2084	Samsung	0199		
Panasonic	1641, 2061, 2062	Pioneer	0142	Sony	1516		
HD-DVD (Y)							
LG	0741	Onkyo	1769	RCA	1769	Toshiba	1769
HTiB (Y) (
Aiwa	0641	Panasonic	0458, 1779, 1907, 1908, 1909, 1910,	Rio	0869	Teac	0790
Audiovox	0790		1925, 1990, 2017	Sherwood	1077	Toshiba	1854
KLH	0/90	Philips Polk Audio	1267	Sonic Blue	0869	Venturer	0/90
Oritron	0651	RCA	0790	Cony	2020, 2043	. amono	10.00

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	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
Х	ADULTS ONLY.

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

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

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

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

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

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

E	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content 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

Advanced

Technical Information

Closed Caption (CC)

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

Aspect Ratio

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

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

H-FILL

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

To reset the aspect ratio
 (OK)

③ V-size: Vertical size adjustment

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

Data format for S	D Card browsing
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Photo:

Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0) Data format: 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

	-Created automatically
	-3-digit folder number + 5-digit arbitrary characters
	 4-digit arbitrary characters + 4-digit file number ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and ""
The folder and file names may h	e different depending on the digital camera used

- ames may be different depending on the digital camer 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 a 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

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[™] "HDAVI Control[™]"

- 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" or "HDMI 3 in" 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.
- Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.
- Custom (Photo): Customizes each item according to your taste.
 - Photo is displayed in JPEG menu.

For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 37)

• Game:

- 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.

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

(6) (7) (8) (9) (10)

Pin Lavout for PC Input Terminal

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

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).

51

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-42PZ85U	TH-46PZ85U	TH-50PZ85U				
Pow	er Source	AC 120 V, 60 Hz						
Power Const	Maximum	573 W	628 W	690 W				
Imption	Standby condition	0.2 W	0.2 W	0.2 W				
ק א	Drive method	AC type						
asi	Aspect Ratio	16:9						
ma	Visible screen size	42 " class (41.6 inches	46 " class (46.0 inches	50 " class (49.9 inches				
D	(W × H × Diagonal)	36.2 " $\times 20.4$ " $\times 41.6$ "	10.1 " \times 22.5 " \times 46.0 "	$\frac{1}{435} = \frac{1}{2} \times \frac{244}{3} \times \frac{1}{2} \times \frac{1}{499} \times \frac{1}{2} $				
splay	(No. of pixels)	(922 mm × 518 mm × 1,057 mm) 2,073,600 (1,920 (W) × 1,080 (H [5,760 × 1,080 dots]	[922 mm × 518 mm × 1,057 mm) (1,019 mm × 573 mm × 1,169 mm) (1,10 2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]					
Sound	Audio Output	20 W [10 W + 10 W] (10 % TH	ID)					
PC s	ignals	VGA, SVGA, XGA, WXGA, SXG Horizontal scanning frequency 3 Vertical scanning frequency 59	GA 31 - 69 kHz - 86 Hz					
Char (Digi	nnel Capability tal/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 1;	35					
Oper	ating Conditions	Temperature: 32 °F – 104 °F Humidity: 20 % – 80 %	F (0 °C – 40 °C) RH (non-condensina)					
	VIDEO IN 1-2	VIDEO: RCA PIN Type S-VIDEO: Mini DIN 4-pir AUDIO L-R: RCA PIN Type	e x 1 1.0 V [p-p] (75 Ω) Y: 1.0 V [p-p] (75 Ω) e x 2 0.5 V [rms]	C: 0.286 V [p-p] (75 Ω)				
Conne	COMPONENT INPUT 1-2	Y: 1.0 V [p-p] (in Рв, Pr: ±0.35 V [p-p] AUDIO L-R: RCA PIN Туре	cluding synchronization) e x 2 0.5 V [rms]					
ction	HDMI 1-3	TYPE A Connector × 3 This TV supports "HDAVI Control 3" function.						
Termir	PC	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO L-R: Stereo Mini Jack (Φ3.5 mm) × 1						
าลเร	Card slot	SD CARD slot × 1						
	AV PROG OUT	VIDEO: RCA PIN Type AUDIO L-R: RCA PIN Type	e x 1 1.0 V [p-p] (75 Ω) e x 2 0.5 V [rms]					
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic						
FEAT	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip Photo viewer HDAVI Control 3						
Dimer (W × I	Including pedestal	41.9 " × 28.3 " × 12.9 " (1,064 mm × 718 mm × 327 mm)	46.0 " × 31.0 " × 15.3 " (1,168 mm × 786 mm × 387 mm)	49.4 " × 32.7 " × 15.3 " (1,254 mm ×830 mm × 387 mm)				
isions H × D)	TV Set only	41.9 " × 26.4 " × 3.7 " (1,064 mm × 669 mm × 92 mm)	46.0 " × 28.9" × 3.7 " (1,168 mm × 734 mm × 93 mm)	49.4 " ×30.7 " ×3.8 " (1,254 mm × 778 mm × 94 mm)				
Ma	Including pedestal	70.5 lb. (32 kg)	81.6 lb. (37 kg)	88.2 lb. (40 kg)				
SS	TV Set only	66.1 lb. (30 kg)	77.2 lb. (35 kg)	83.8 lb. (38 kg)				
	[TH-42PZ85U]	[TH-46PZ85U]] [TH-5	0PZ85U]				
-	41.9 " (1,064 mm) 3.1	7" (92 mm) 46.0" (1,168 mm	(1) 3.7" (93 mm) 49.4"	(1,254 mm) 3.8" (94 mm)				
28.3 " (718 mm) 26.4 " (669 mm)	18.0 " (456 mm)	3.2 " 3.2 " (79 mm) 	32.7.4 (694 mm) 32.7.1 (830 mm) 30.7.1 (778 mm)	18.0 " (456 mm)				
No	te)	(J27 IIIII) * →	13.3 (307 11111) 🔤	→ 15.3 (387 mm)				

FAQs, etc.

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 non-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

Our Customer Care Centre:

1-866-330-0014 www.vieraconcierge.ca

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

Email link:

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.

57

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

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