Panasonic®

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

(41.6/46.0/49.9 inches measured diagonally)

Manual de instrucciones

Television de alta definición de 1080p y clase 42"/46"/50" de Plasma (41.6/46.0/49.9 pulgadas medidas diagonalmente)

Model No. Número de modelo

TH-42PZ85U TH-46PZ85U TH-50PZ85U

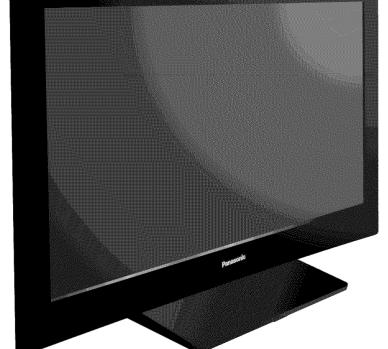


(See page 6-15)

Guía de inicio rápido

(vea la página 6-15)

- For assistance (U.S.A.), please call: 1-888-VIEW-PTV (843-9788)
 - 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: 1-800-561-5505 or visit us at www.panasonic.ca
- Para solicitar ayuda (EE.UU.), llame al: 1-888-VIEW-PTV (843-9788)
- ó visítenos en www.panasonic.com/contactinfo
- Para solicitar ayuda (Puerto Rico), llame al: 787-750-4300 ó visítenos en www.panasonic.com









VIECA LINK

English

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

Español

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

Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement



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HDAVI Control™

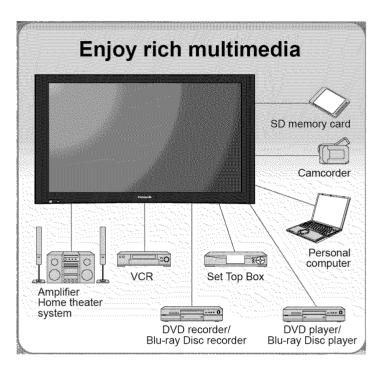
HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.



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

VIECA Link**

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



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Enjoy your TV!

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EZ Sync™

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



A

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.

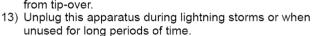
WARNING:

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.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



- 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

1-888-VIEW-PTV (843-9788)

email: consumerproducts@panasonic.com

CANADIAN NOTICE:

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

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

WARNING/CAUTION



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
- 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 cable. When disconnecting the power cable, hold the plug, not the cable.

Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable 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.

⚠ CAUTION

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 cable 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 photoVideo 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)

Setup

- 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

Accessories

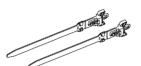
Check you have all the items shown.

Accessories

- ☐ Remote Control Transmitter N2QAYB000220
- ☐ Batteries for the Remote Control Transmitter (2)
 - AA Battery
- ☐ Antenna Adapter
 - F-Type for 5C-2V



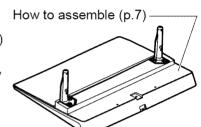
☐ Cable clampers (2)



☐ AC cord



- Pedestal
- TBLX0033 (TH-42PZ85U)
- TBLX0034 (TH-46PZ85U, TH-50PZ85U)

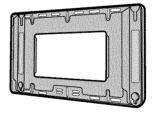


☐ Cleaning cloth

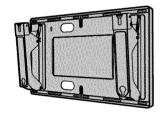


- ☐ Operating Instructions
- ☐ Quick Setup Guide (For viewing HD programming)
- ☐ Product Registration Card (U.S.A.)
- ☐ Customer Care Plan Card (U.S.A.)

Optional Accessory



Wall-hanging bracket (vertical) TY-WK42PV4W

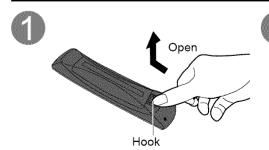


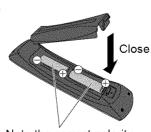
(angle) TY-WK42PR4W

Note

- In order to maintain the TV's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause its panel to crack.

Installing the remote's batteries





Note the correct polarity (+ or -).

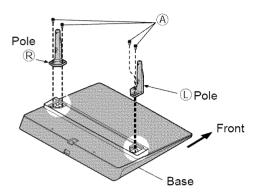
Caution

- 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

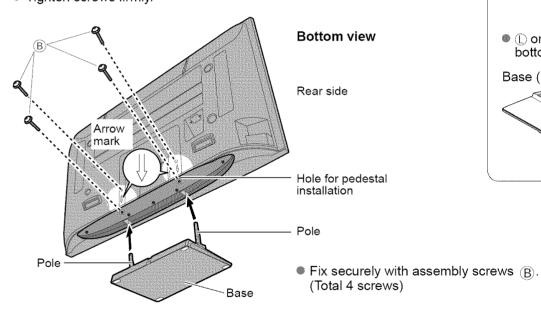
■Assembling the pedestal

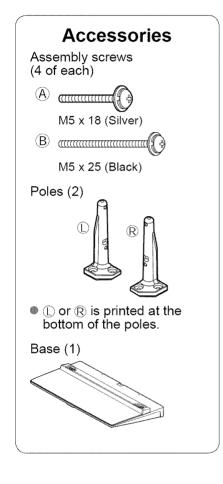
- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



■Set-up

- Carry out work on a horizontal and level surface.
- 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.

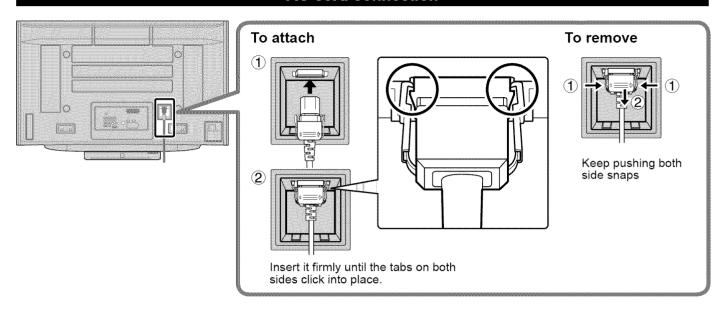
If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

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

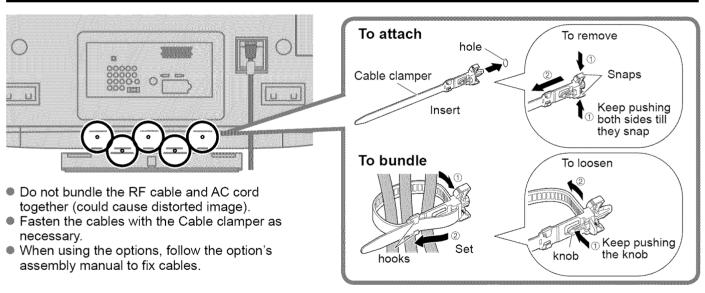
If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Accessories/Optional Accessory (Continued)

AC cord connection



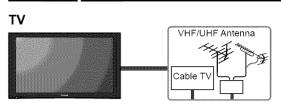
Cable Binding Instructions



Reference of connection Antenna terminal Pin terminals red blue green green Match colors of plugs and terminals. Insert firmly.

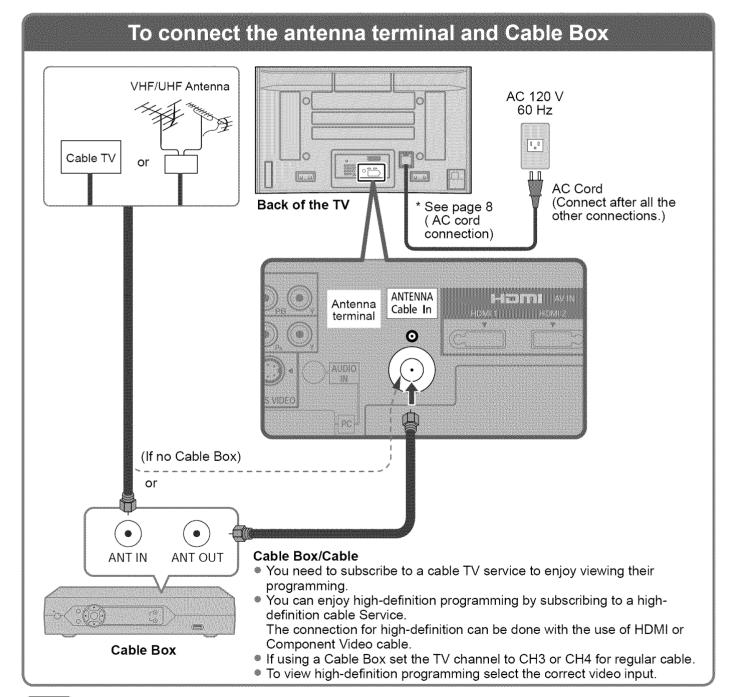
Basic Connection

Example 1 Connecting Antenna (To watch TV)



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

- All cables and external equipment shown in this book are not 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

Basic Connection (Continued)

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

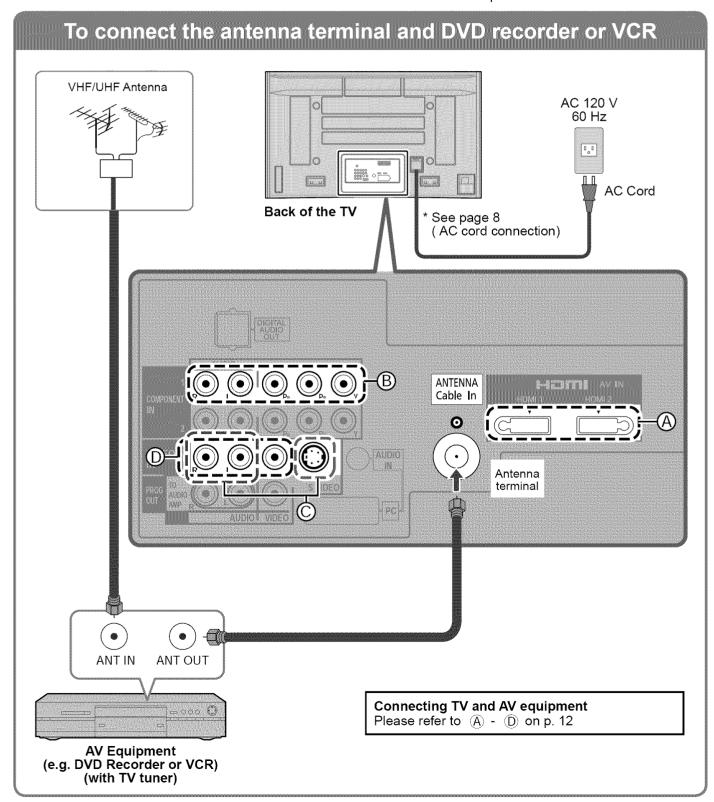


DVD Recorder

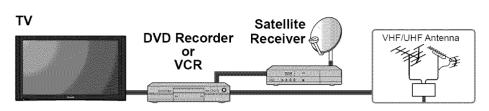
If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable.

VCR

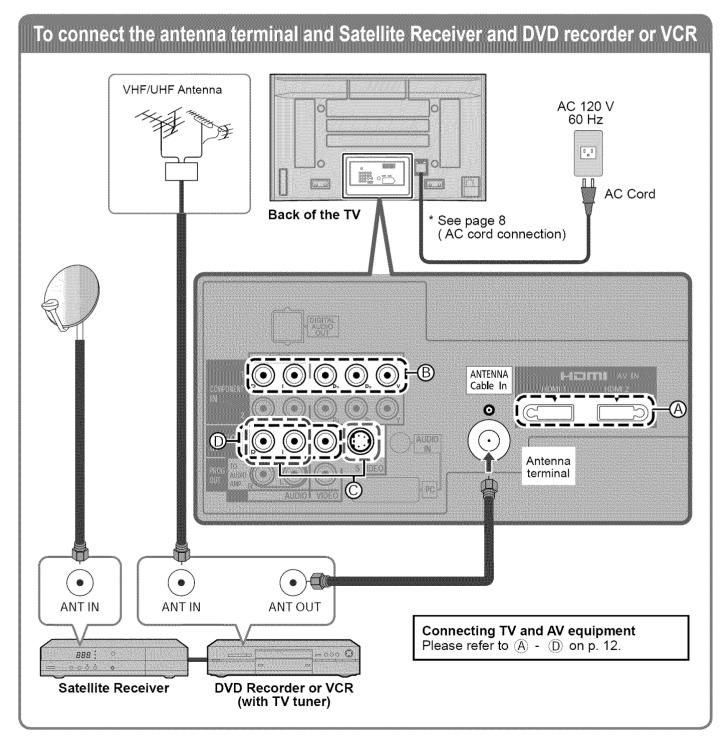
Connection can be done with the use of an RF cable and Composite Video/S Video cable.



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.

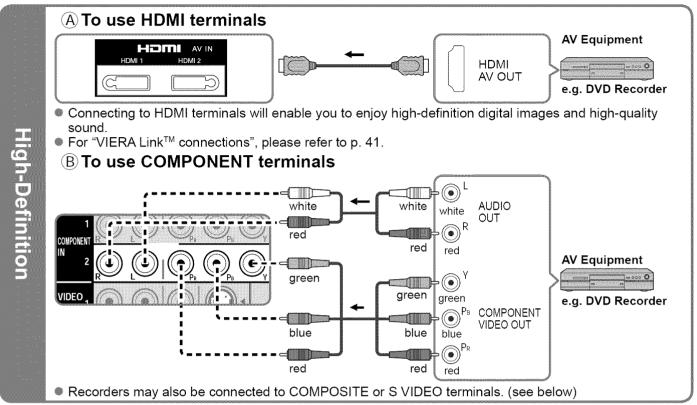


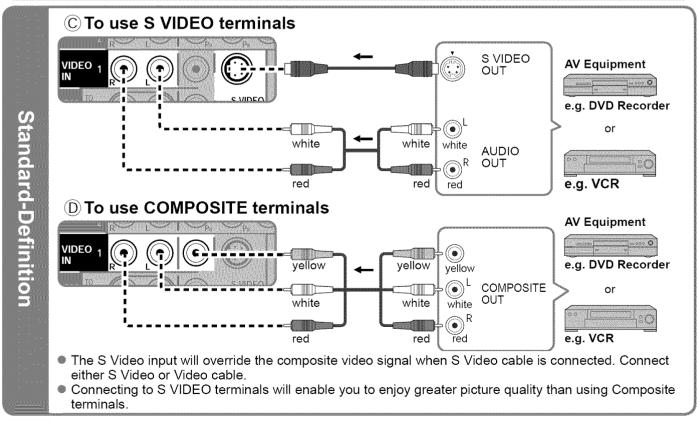
Note

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

Basic Connection (Continued)

AV cable connections

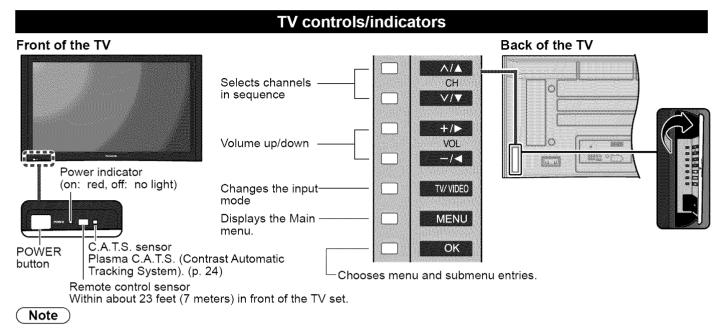




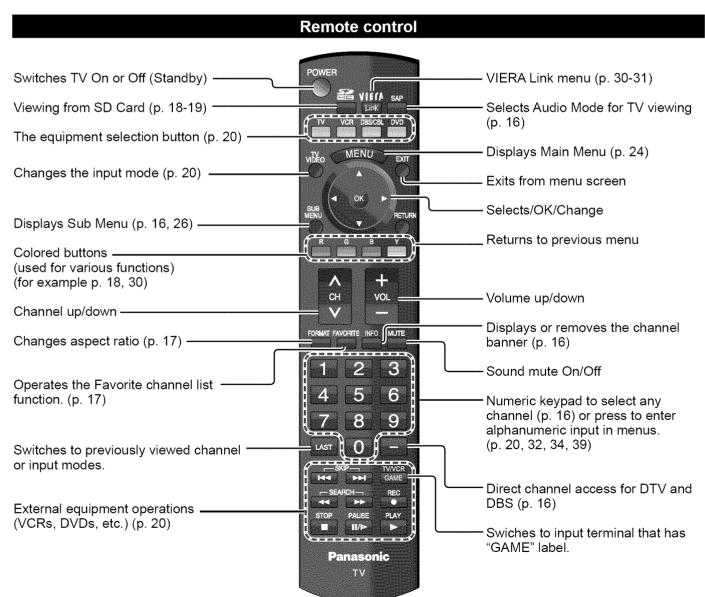
Note

- 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

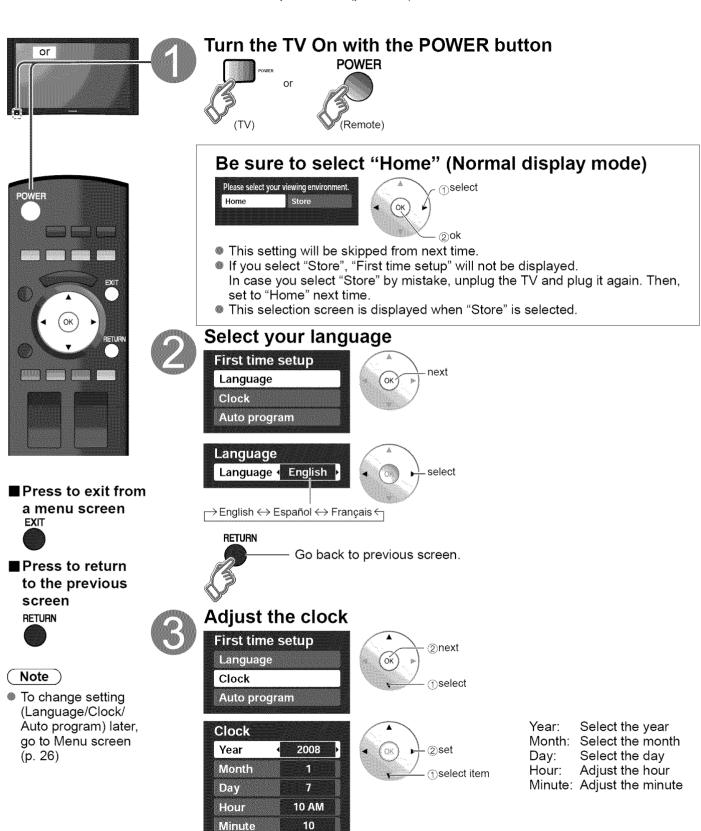


The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.



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".



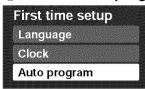
Go back to previous screen.

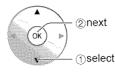
RETURN



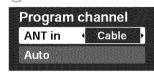
Auto channel setup

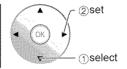
1 Select "Auto program"





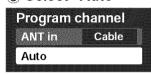
② Select "ANT in"

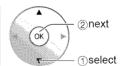




ANT in
Cable: Cable TV
Antenna: Antenna

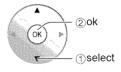
3 Select "Auto"

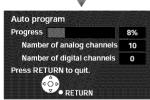




4 Select scanning mode (ALL channels/Analog only/Digital only)







Start scanning the channels

Available channels (analog/digital) are automatically set.

All channels: Scans digital and analog channels Analog only: Scans Analog channels only Digital only: Scans Digital channels only

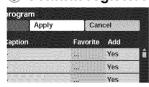
■ Press to exit from a menu screen

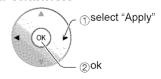
EXIT

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(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 broadcasting

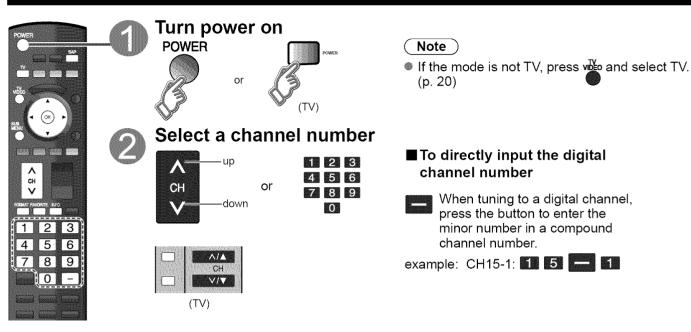
Digital (ATSC): New programming that allows you to view more channels

featuring high-quality video and sound

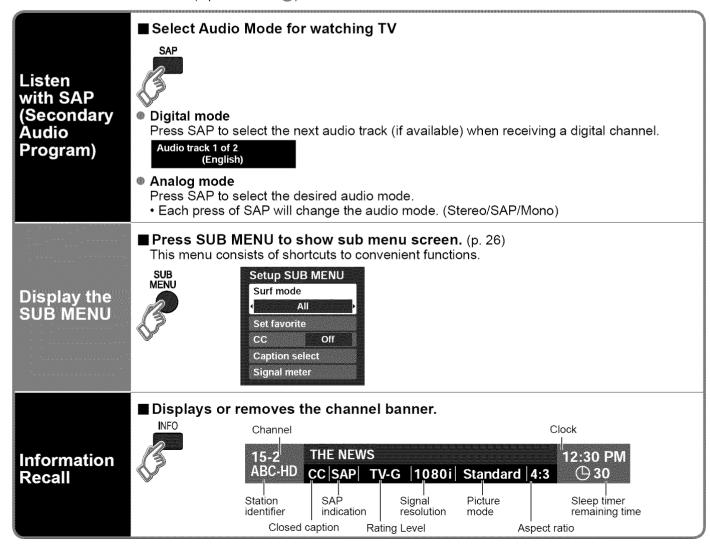
Watching TV

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





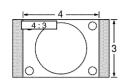
■ Other Useful Functions (Operate after ②)



Change aspect ratio

■ Press FORMAT to cycle through the aspect modes. (p. 46)





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

Call up a favorite channel



■ FAVORITE

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

Note)

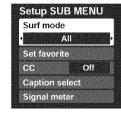
- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 35)
- The channel number and volume level remain the same even after the TV is turned off.

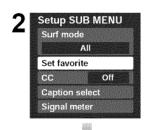
Favorite Feature

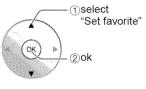
■Set Favorite Feature

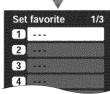
◆ Display the SUB MENU.









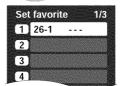


 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).



Press ▲ ▼to highlight a position on the list.

Then, press OK to save the displayed channel in that position.



 You can also use the NUMBER buttons (1-9 and 0) to select a list number (1-9 and 0). By doing so, the displayed channel will be saved on that list number without pressing OK.

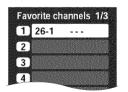
To delete a favorite channel

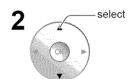
A saved channel can be removed from the list by holding down OK while its position is highlighted.

■ Use Favorite Feature • FAVORITE Press FAVORITE.



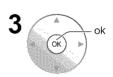
 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).





Press ▲ ▼ or a Numbered key (1-9 and 0) to highlight a channel on the list

 Selecting a channel number from the list with the number button will display the channel directly.



Press OK to display the highlighted channel.

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.)

Photo viewer



Insert the SD card and select "Play SD card now" =

"SD card setting" will be displayed automatically each time a SD card is inserted for the first time.



Play SD card automatically: Set it to playback the data when SD card is inserted.

On: When SD card is inserted, the data play automatically from next time.

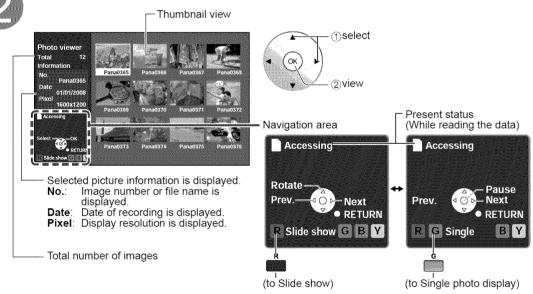
Off: The data can be played manually.



You can skip this step when "Play SD card now" is selected or "On" is set in "Play SD card automatically" setting.



Select the data to be viewed



■ Press to exit from a menu screen

EXIT

■ Press to return to the previous screen

Note

Depending on the JPEG format, "Information" contents may not be displayed correctly. Refer to p. 47 (Data format for SD card browsing) for details.



View



Displays one at a time

Navigation area



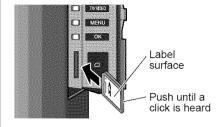
To previous photo

● To display/hide Navigation area 🖈





Insert the card



Remove the card
 Press in lightly on SD
 Card, then release.



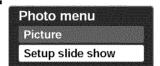
- Compliant card type (maximum capacity): SDHC Card (16 GB), SD Card (2 GB), miniSD Card (1 GB) (requiring miniSD Card adapter)
- For cautions and details on SD Cards (p. 47)

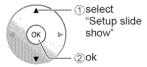
To change the view (slide show mode, adjusting images, etc.)

- ■To setup the slide show mode In ② or ③
- ◆ Display "Photo menu"

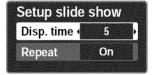


Select "Setup slide show"





3 Select the item and adjust





Disp. time

You can set how many seconds each image is displayed in Slide show mode. (1-10/15/20/30/45/60/120 sec)

Repeat

Turn the slide show Repeat function On or Off.

Note

- For large image sizes, the display time will be longer than the number of seconds set.
- To stop in mid-cycle

 Press

 Pre

■To adjust picture

In @ or @

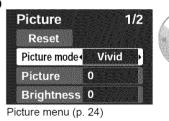
✓ Display "Photo menu"



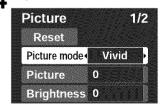
2 Select "picture"



3 Select the item



4 Adjust or select





select

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)

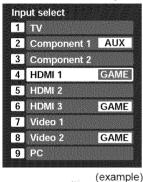


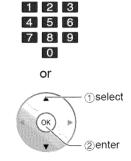
With the connected equipment turned On

Display the Input select menu



Select the input mode





Press corresponding NUMBER button on the remote control to select the input of your choice.

Select the input of your choice, then press OK.

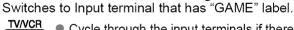
During the selection, if no action is taken for several seconds, the "Input select" menu disappears.

HDMI 1 Terminal Label (example)

 The terminal and label of the connected equipment are displayed.
 To label each of the inputs, please refer to p. 37.

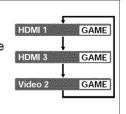
Note

- The input label will be displayed on "Input select" screen if Input label is set on p. 37.
- For side input terminals (HDMI 3/Video 2), "GAME" input label is set as default. (Picture mode is set to "Game", refer to p. 48.)
- For more details for picture mode setting, refer to p.48. For Input label, refer to p. 37.
- Press Game to switch to the game screen Switches to Input terminal that has "GAME" label.





- Cycle through the input terminals if there are multiple Input terminals that have "GAME" label. (p. 37)
- If there is no Input terminal with "GAME" label, you cannot switch the input terminal to any other input terminal than the one currently selected.



(example)

■ To return to TV Select the remote control mode

Press the key to select



6

0

II/)>

Panasonic

ΤV

Operate the connected equipment, pointing TV's remote control at the equipment.

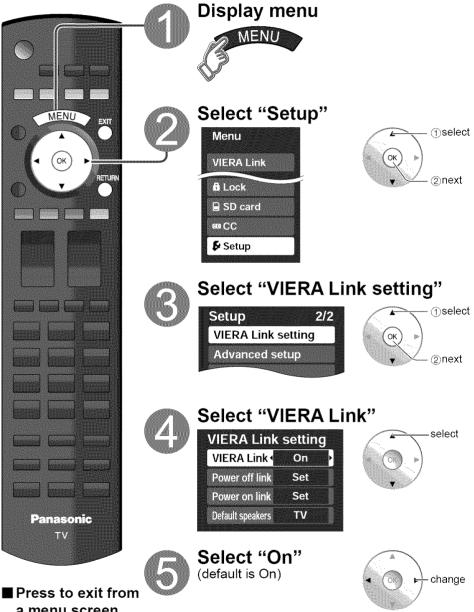
	VCR MODE	DVD MODE		VCR MODE	DVD MODE
REC.	VCR Record	Record	STOP	Stop	Stop
SKIP— EZZ	_	Skip Reverse/ Forward	PAUSE 1015	Pause	Pause
SEARCH	Rewind/Fast Forward	Reverse/Forward	PLAY	Play	Play

(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.



a menu screen **EXIT**

■ Press to return to the previous screen

RETURN



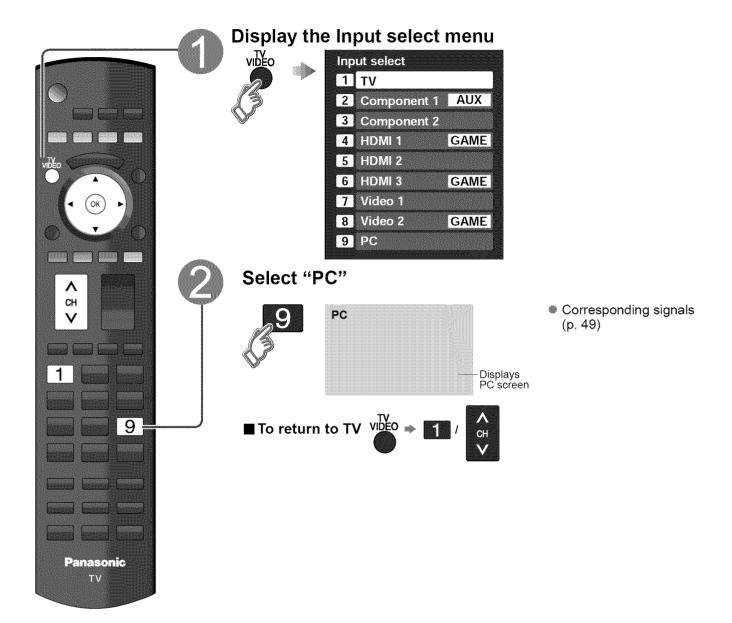
Now you can set each "VIERA Link" function according to your preference (p. 28-31)

Note

- If no HDMI equipment is connected or standard HDMI equipment (non- "VIERA" Link") is used, set it to "Off".
- For the details on the external equipment's connections, please refer to the operating manuals for the equipment.

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)

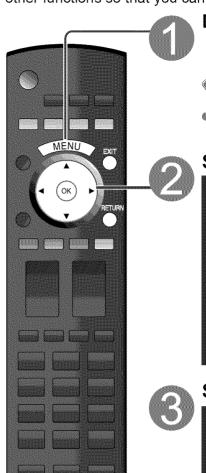
Making settings ** "How to Use Menu Functions" (1) to (2) (p. 24)

Menu	Ite	em	Adjustments/Configurations (options)
		Reset	Resets PC adjust
	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)
Picture		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
		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

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.



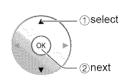
Display menu



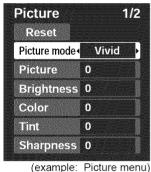
Displays the functions that can be set (varies depending on the input signal)

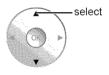
Select the menu





Select the item

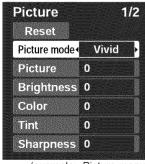




■ Press to exit from a menu screen **EXIT**









■ Press to return to the previous screen RETURN



(example: Picture menu)

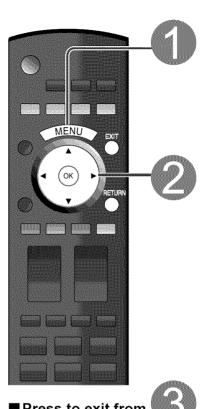
■ Men	u lis	st	
Menu	*******	Item	
VIERA Link	Sto VIE	cord now p recording RA Link control eaker output	
	Res	set	
	Pic	ture mode	
	Pic ^o Col	ture, Brightness, or, Tint, Sharpness	
	Col	or temp.	
	Col	or mgmt.	
	x.v.	Color	
	C.A	ı.T.S.	
2	Zoc	om adjust	
=	РС	adjust	
		Video NR	
	۸	3D Y/C filter	
	Advanced picture	Color matrix	
	ed p	MPEG NR	
	oict	Black level	
	ure	HD Size	
	Res	set	
	Bas	SS	
	Tre	ble	
	Bal	ance	
		Al sound	
Au	Þ	Surround	
dio	dva	Bass boost	
	nce	Audio leveler	
	Advanced audio	Speaker output	
	dio	HDMI 1 in HDMI 2 in HDMI 3 in	
Timer	Sle	ep, Timer 1-5	
Lock			
SD Card	SD	card	
CC	СС		

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] 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. Resets all picture adjustments to factory default settings except for "Advanced picture" Reset Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 48) Picture mode Vivid Adjusts color, brightness, etc. for each picture mode to suit your taste Picture +20 Tint m Display range Brightness Sharpness M Picture/Brightness/Color/Sharpness: Color 0 Tint: 50 - +50Selects a choice of Cool (blue), Normal, or Warm (red) color, (Cool/Normal/Warm) Color temp. Cool On: Enhances green and blue color reproduction, especially outdoor scenes. (On/Off) Color mamt. (e) a Auto: Provide the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI x.v.Color Auto or component input of this TV. (Off/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 signal. (Off/On) Video NR Oit 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 Color matrix SD Only 480p signal accepted; regular TV (NTSC) is not available. MPEG NR oll Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Black level Selects Dark or Light. Valid only for external input signals. (Dark/Light) Light Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1" if noise is generated on the edges of the screen. HD Size size1 Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Reset Bass Increases or decreases the bass response. Treble Increases or decreases the treble response. Emphasizes the left / right speaker volume. Balance Equalizes overall volume levels across all channels and external inputs. (On/Off) Al sound 01 Enhances audio response when listening to stereo. (On/Off) Surround Off. Enhances bass sound and provides powerful sound. (On/Off) Bass boost Off This setting will not function if "off" is set in "Speaker output". Audio leveler 0 Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Speaker output (0)1 • "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected HDMI1 in Digital The default setting is "Digital" for HDMI connection. (Digital input signal) HDMI2 in Digital Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) HDMI3 in 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) SD card Displays SD card data (p. 18-19) СС Displays subtitles (Closed Caption) (p. 36)

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

How to Use Menu Functions

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



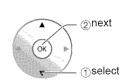
Display menu



Displays the functions that can be set (varies according to the input signal)

Select "Setup"





■ Press to exit from

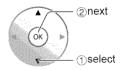


a menu screen **EXIT**

■ Press to return to the previous screen RETURN

Select the item



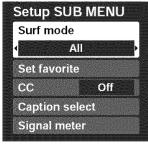


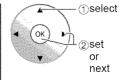
Display Sub Menu





Select the item





■ Menu list

- Wen	u II:		. **
Menu	********	Item	***********
	Sur	f mode	
	Lan	guage	
	Clo	ck	
	Pro	gram channel	
	Exterr	Input labels	
	External devices Anti Image retention VIERA Link setting	Monitor out	
	Anti	Pixel orbiter	
	lmag	Time	
	e reter	Side bar	
	tion	Scrolling bar	
(O	VIER/	VIERA Link	
etı	Lin	Power off link	
þ	k set	Power on link	
	ting	Default speakers	
	Advanced se	Auto power on	
		No signal shut-off	
	l setup	No action shut-off	
		Play SD card automatically	
	Abo		
	Res	set	

■ Sub menu list

Menu	Item	
<u>S</u>	Surf mode	
E S	Set favorite	
etu Mi	СС	
罗豆	Caption select	
C	Signal meter	

(Continued)

Adjustments/Configurations (alternatives)	
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) ■ Favorite: Only channels registered as FAVORITE (p. 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/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)	
Prevent "Image retention" with Wobbling (Shifts the display image automatically.) (Automatic/Force)	Pixel orbiter A
Sets the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time
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 Br
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
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) (TV/Theater)	Default speakers
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
To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Set/No) Note	Заминованите объедорогия и поставорогия и постав
 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
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	g
 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
Set "On" to play back SD cards automatically. (On/Off)	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 select the channel with Channel up/down button (All/Favorite/Digital only/Analog only)	<u> </u>
Sets favorite channels. (p. 17)	
Displays Closed Caption. (p. 36) (Off/On)	
Changes the station identifier. (p. 35)	

VIERA LinkTM "HDAVI ControlTM"*

* Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on one remote.

VIERA Link™ is a new name for EZ Sync™

Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 3" function.

Connections to the equipment (DVD recorder DIGA, HD Camcorder, Player theatre, RAM theater, Amplifier, etc.) with HDMI cables allow you to interface them automatically. The equipment with "HDAVI Control" function enables the following operations:

- Automatic Input Switching (p. 29)
- Power on link (p. 29)
- Power off link (p. 29)
- Default speakers (p. 29)
- One-touch theater playback (p. 29)
- Speaker control (p. 31)

The equipment with "HDAVI Control 2" (or more) function enables the following operations:

- VIERA Link control only with the TV's remote control (for "HDAVI Control 2" or "HDAVI Control 3") (P. 31)
- Providing the setting information (for "HDAVI Control 3") (p. 29)
- Automatic lip-sync function (for "HDAVI Control 3") (p. 29)
- Direct TV Recording (for "HDAVI Control 3") (p. 31)

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

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

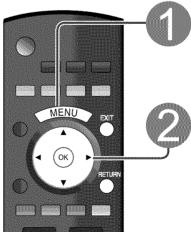
For the first time / When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on.

Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 20), and make sure that an image is displayed correctly.

■ HDMI cable

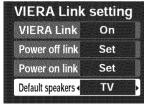
This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG10 (3.3 ft/1.0 m) RP-CDHG15 (4.9 ft/1.5 m), RP-CDHG20 (6.6 ft/2.0 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)

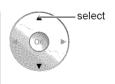
* For more detail on the external equipment's connections, please refer to the operating manuals for the equipment.



Follow direction • - • in "VIERA Link setting" (p. 21)







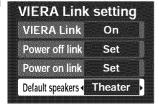
■ Press to exit from a menu screen EXIT

■ Press to return to the previous

screen RETURN



Set





Automatic Input Switching

Power on link

Power off link

Default speakers

One-touch theater playback

Providing the setting information (for "HDAVI Control 3")

Automatic lip-sync function (for "HDAVI Control 3") 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.

Transmittable data		Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)		0	0	0
② Panel Aspect Ratio (16:9 fixed)		0	0	0
③ Closed caption information	mode	0		
	CC type	0		
	Digital setting	0		
Channel information	Input signal	0		
	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 toTV 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]

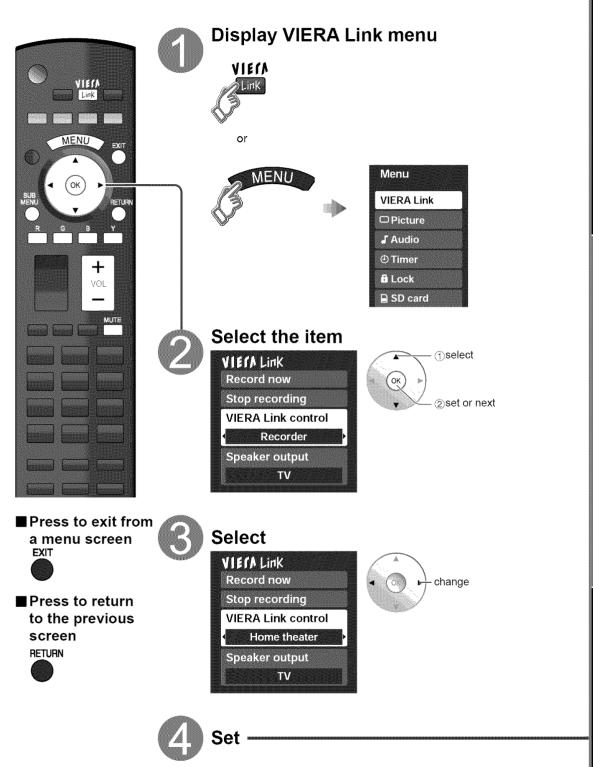
You cannot operate other functions while transmitting TV's information above except Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ④ Channel information).

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

VIERA LinkTM "HDAVI ControlTM"*

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



Speaker control

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

Direct TV Recording (for "HDAVI Control 3")

(Continued)

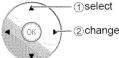
You can select Home theater or TV speakers for audio output.

Control theater speakers with the TV's remote control.

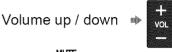
This function is available only when Panasonic Amplifier or Player theater is connected.

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





■Home theater: Adjustment for equipment

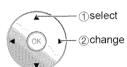


- Mute 🕪 💆
- The sound of the TV is muted.
- When the equipment is turned off, the TV speakers take over.
- Selecting "Home theater" turns the equipment on automatically if it is in standby mode.
- **TV:** The TV speakers are on.

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)





You can select available items only.

■ Available TV's remote control buttons

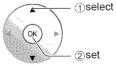
	Move the cursor/Select	
(ok	Set/Access	
RETURN	Return to the previous menu	
SUB MENU	Display the Functions menu on the equipment	
R G B Y	Available when the purpose of the keys is displayed on screen	

- 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.

1 Select "Record now"

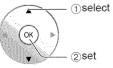




For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.

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

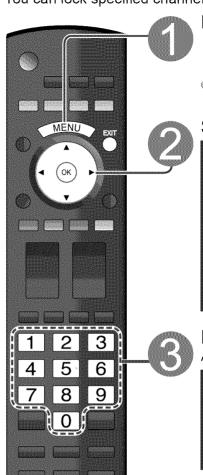




Recording will not stop automatically when the program is finished.

Lock

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

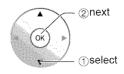


Display menu



Select "Lock"





You will be asked to enter your password each time you display the Lock menu.



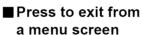
Input your 4-digit password

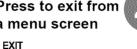
A 4-digit code must be entered to view a blocked program or change rating settings.



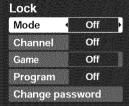


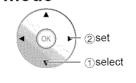
If it is your first time entering the password, enter the password twice in order to register it.





Select the Lock mode





Off: Unlocks all the lock settings of "Channel", "Game" and "Program".

All: Locks all the inputs regardless of the lock settings of "Channel", "Game" and "Program".

Custom: Locks specified inputs of "Channel", "Game" and

"Program".

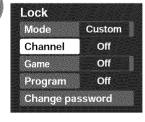
Caution

Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note)

When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

Select the item



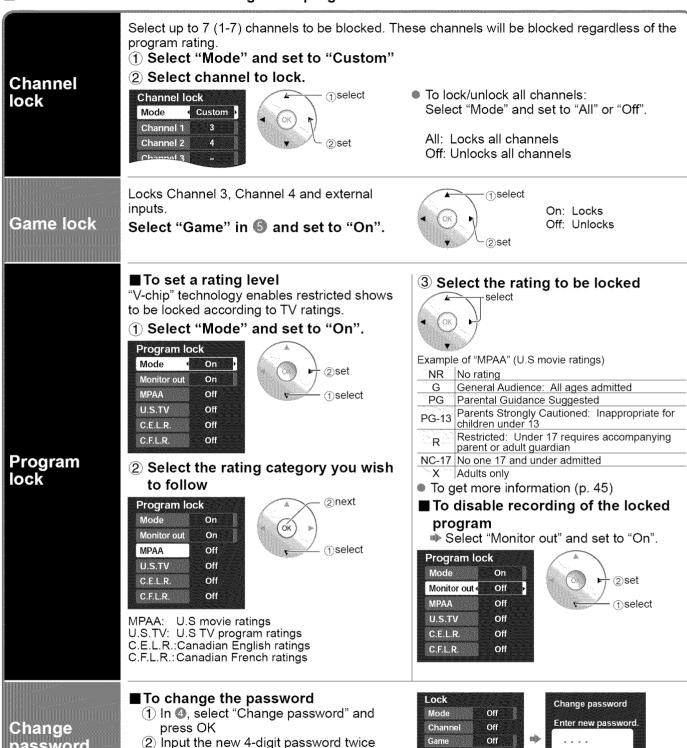


"Channel", "Game" and "Program". will grey out unless "Custom" is selected in "Mode".





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



Note)

oassword

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

Off

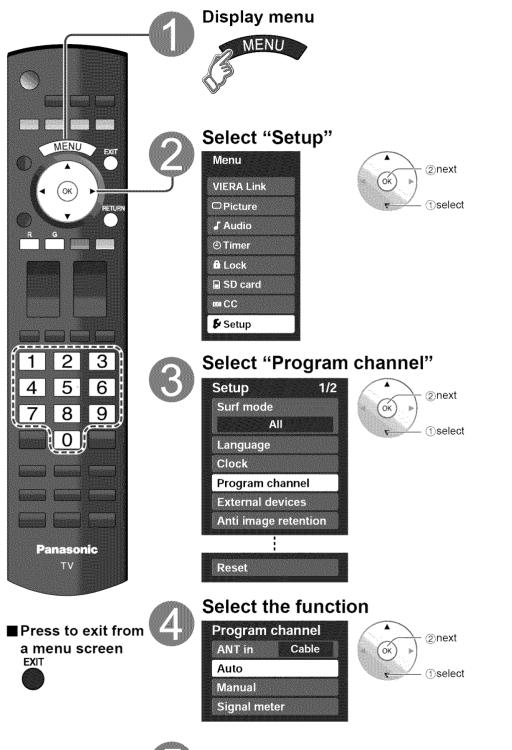
Change password

0 9

- 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.



Auto Set automatically Manual Set manually Signal meter Check signal strength

■To reset the settings of setup menu

Set

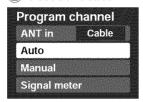
- ① Select "Reset" in Setup menu (③) and press OK
- ② Input your 4-digit password with number buttons
- 3 Select "YES" on the confirmation screen and press OK

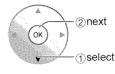
RETURN

Automatically searches and adds available channels to the memory.

- 1 Select "ANT in"
 - Select Cable or Antenna (p. 15)

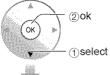
② Select "Auto"





(3) Select a scanning mode (p. 15)





Settings are made automatically

- After the scanning is completed, select "Apply". (see below (5)).
- All previously saved channels are erased.

Use this procedure when changing the channel setup or changing the channel display.

Also, use this to add or skip channels from channel list manually.

You can select channel tuning mode (Digital only/Analog only) in "Surf mode" (p. 27)

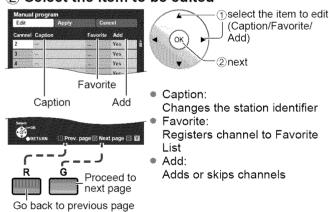
Diselect

②next

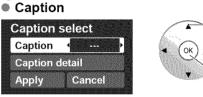
1 Select "Edit"

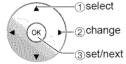


② Select the item to be edited





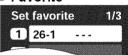




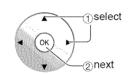
Caption

Select the station identifier

Favorite





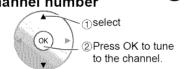


Set favorite | Select the number

Add

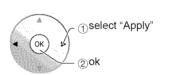
Press OK to select "Yes (add)" or "No (skip)"



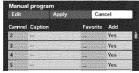


⑤ Select "Apply"

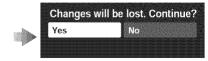


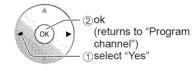


To cancel the Edit

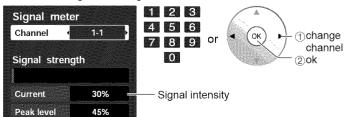








Check the signal strength if an interference is found or freezing occurs on a digital image.

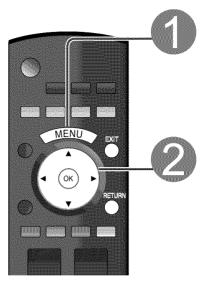


If the signal is weak, check the antenna. If no problem is found, consult your local dealer.

Note)

- Not available if "Cable" is selected in "ANT in" (see above).
- Available only for digital antenna channels.

Closed Caption

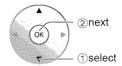


Display menu



Select "CC"





■ Press to exit from a menu screen **EXIT**

CC

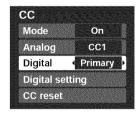
Display

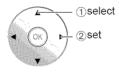
Closed

Caption

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed Caption (CC) information. (p.46)

■ Select the item and set





Select "On" (when not using, select "Off"). Mode

(Choose the Closed Caption Analog service of Analog broadcasting.)

CC1-4: Information related to pictures (Appears at bottom of screen)

T1-4: Textual information

(Appears over entire screen)

(The Digital Closed Caption Digital

menu lets you configure the way you choose to view the digital captioning.)

Select the setting.

• "Primary", "Second.", "Service 3", "Service 4", "Service 5", "Service 6"

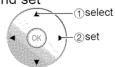
■ To make more in-depth display settings in digital programs

- ① Select "Digital setting" and press OK
- 2 Select the item and set

The settings in "Analog" or "Digital"

depend on the broadcaster.





- Size: Text size Font: Text font
- Style: Text style (Raised, Depressed, etc.)
- Foreground: Color of text
- Fore opacity: Opacity of text
- Background: Color of text box Back opacity: Opacity of text box
- Outline: Outline color of text

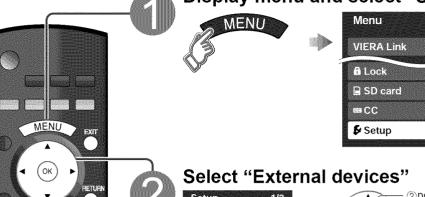
(Identify the setting options on the screen.)

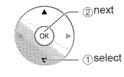
■ To reset the settings

Select "CC reset" and press OK

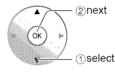
Input Labels/Monitor Out







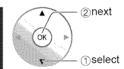




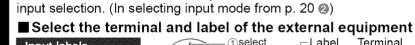
■ Press to exit from a menu screen





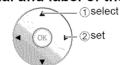


Devices connected to external input terminals can be labeled for easier identification during



Input labels **Display** labels of external devices







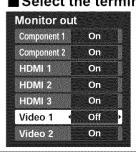
[example]

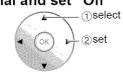
- Terminals: Comp. 1-2/HDMI 1-3/Video 1-2/PC
- Label: SKIP*/VCR/DVD/CABLE/DBS/PVR/GAME/AUX/ RECEIVER/[BLANK]
- * If "SKIP" is selected, the TV/VIDEO button press will skip its input.
- Each selected labels will be displayed on "Input select" screen.

To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 27) ■ Select the terminal and set "Off"

Monitor out Stop output

of the pieture and audio



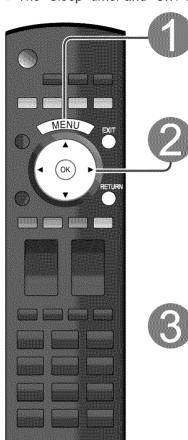


- Select "Off" to stop output of picture and audio. (Video 1/Video 2)
- Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3 cannot output video signals regardless of "Monitor out" setting. When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, no video signals can be passed through PROG OUT terminal.

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.

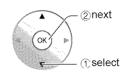


Display menu



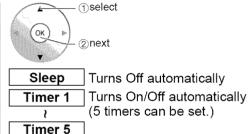
Select "Timer"





Select the timer to set





■ Press to exit from a menu screen



■ Press to return to the previous screen RETURN



Note

The TV automatically turns Off after 90 minutes when turned On by the Timer. This operation will be cancelled if the Off time is selected or if a key is pressed.

Set the timer

■ To set "Sleep" (Off Timer)

Set to shut the unit off after a pre-selected amount of time.





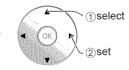
0/30/60/90 (minutes)

■ To set "Timer 1-5" (On/Off Timer)

Select the item and set







Channel Select the channel

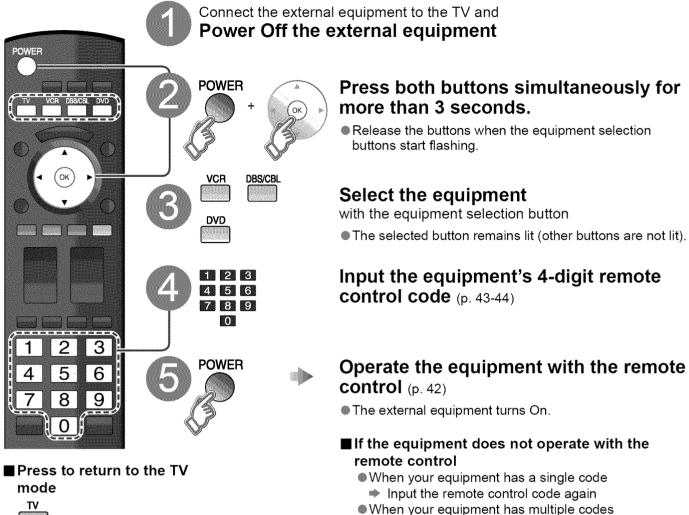
Select the day SUN/MON/TUE/WED/THU/FRI/SAT

(displays the nearest future date) MON-FRI/SAT-SUN/DAILY/EVR SUN/EVR MON/ EVR TUE/EVR WED/EVR THU/EVR FRI/ EVR SAT

On time The time to turn On Off time The time to turn Off Set Timer setting (On/Off)

Operating Peripheral Equipment

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





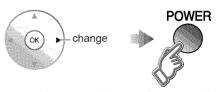
Caution

Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

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

1 After step 3 above, change the code and test



- Operate the equipment with the remote control (p. 42)
- Repeat until the code is found
- It may take many attempts before the correct code is found

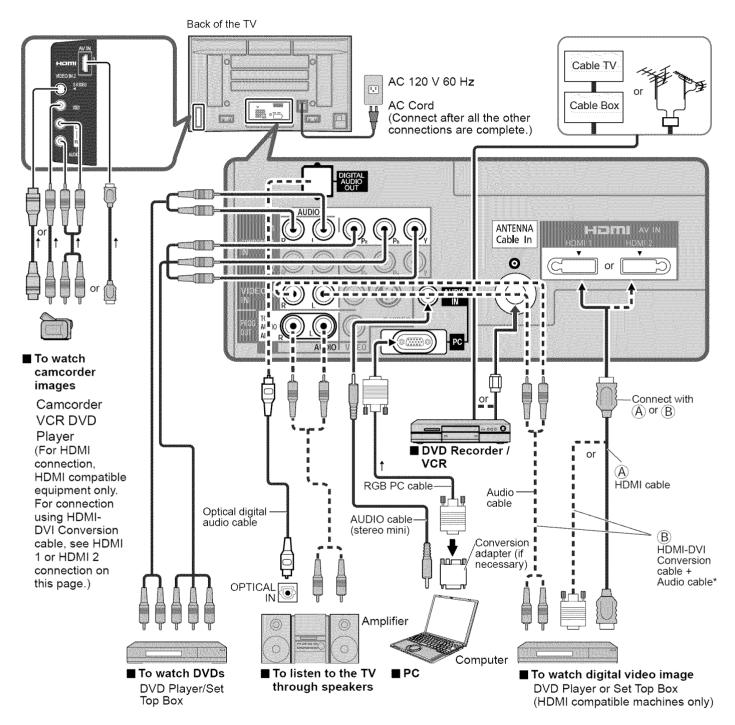
2 When the correct code is found

Change the code with above and test again



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

VIERA Link™ 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.

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

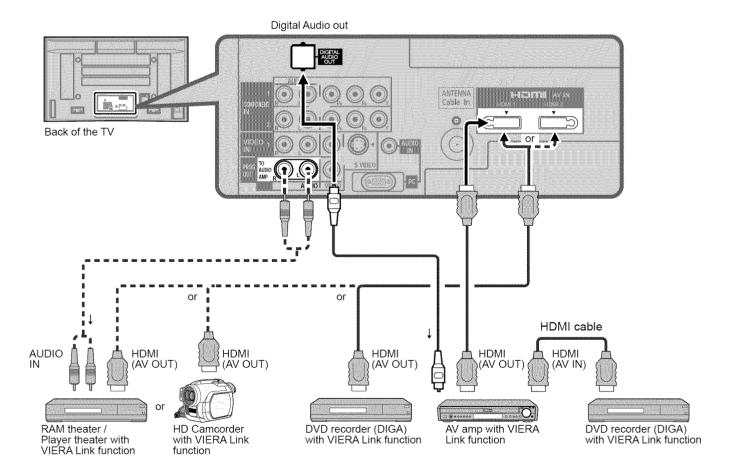
Note

• HDMI 1 is recommended.
When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 20) initially before connecting to HDMI 2/HDMI 3. 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 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.)

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)
- 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.

KEY NAME	VCR MODE	DBS/CB	L MODE (CBL)	DVD MODE
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
SUB MENU	_	Guide	Guìde	Sub Menu
RETURN	_	PPV/VOD	PPV/VOD	Return
R	_	Red	A	Red
6	_	Green	В	Green
B	_	Blue	С	Blue
Y	_	Yellow	D	Yellow
	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
<u> </u>	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)
SKIP-	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR 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	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

*1: Combination type

■ Remot	e Control Code	List					
Cable Conv		W.: W.					88-YWW/141
Brand ABC	Colde 0003, 0007, 0008	Brand Hytex	Code 0007	Brand Philips	O317, 1305	Brand Supercable	Code 0276
ADB Americast	2092 0899	i3 Micro Jerrold	1602 0003, 0012, 0276, 0476, 0810	Pioneer Pulsar	0144, 0533, 0877, 1877 0000	Supermax Thomson	0883 1256
Amino Bell South	1602 1822 0899	Memorex Motorola	0000 0276, 0476, 0810, 1106, 1187,	Quasar RadioShack	0000 0883	Tocom Torx	0012, 0059 0003
ClearMax	0883	MTS	1254, 1376, 1951 1951	RCA Regal	0021, 1256 0273, 0279	Toshiba Tristar	0000 0863
Contec Coolmax	0019 0883	Multitech Mysio	0883 1602 1822	Runco Samsung	0000 0144	United Artists V2	0007 0883
Digeo Director	1187 0476	Oak Optimus	0007, 0019 0021	Scientific Atlanta Sejin	0008, 0477, 0877, 1877 1602	Viewmaster Vision	0883 0863
General instrument GoldStar	0003 0276 9476 0819 0144	Pace Panasonic	0008, 0237, 1877 0000, 0021, 0307, 0623	Sony Sprucer	1006 0621	Vortex View Zenith	0883 0000, 0525, 0899
Hamin	8609, 0273	Paragon	0000	Starcom	0003	1 -10	
Cable/PVR Americast	Combination (C) (Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
Amino Digeo	1822 1187	Motorola Myrio	0810, 1106, 1187, 1376 1822	RCA Scientific Atlanta	1256 0877, 1877	Thomson Zenith	1256 0899
General Instrument	0810	Pace	0237, 1877	Sony	1006		
Satellite Re	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
Bell ExpressVu Chaparral	0775, 1170 0216	General Instrument GOI	0869 0775, 1775	Memorex Mitsubishi	0724 0749	Samsung Sanyo	1108, 1109, 1276, 1377, 1442, 1609 1219
Coolsat Crossdigital	1806 1109	Goodmans Hisense	1246 1536	Motorola NEC	0869 1270	Sony Star Choice	0639, 1639, 1640 0869
DirecTV	0099 0247 0392 0568 0639 0724 0749 0819 1076 1108 1109 1142 1189 1377 1392 1414 1442 1443	Hitachi HTS	0819, 1250 0775, 1775	Next Level Panasonic	0869 0152, 0247, 0701, 1189, 1786	Tivo Toshiba	1142, 1442, 1443, 1444 0749, 0790, 1285, 1749
	1189 1377 1392 1414 1442 1443 1444 1609 1639 1640 1749 1856	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Pansat Paysat	1807 0724	UltimateTV Ultrasat	1392, 1640 1806
Dish Network System Dishpro	0775, 1005, 1170, 1505, 1775 0775, 1005, 1505, 1775	Humax il o	1781, 1790 1535	Philips	0099-0722-0724-0749-0856-1076 1142-1442-1749	Uniden US Digital	0722, 0724 1535
Echostar Expressvu	0775, 1005, 1170, 1505, 1775 0775, 1775	Janeil JVC	0152 0775, 1170, 1775	Proscan Proton	0392, 0566 1535	USDTV Voom	1535 0869
Fortec Star	1821, 1948	LG .	1226, 1414	RadioShack	0869	Zenith	1810, 1856
DBS/PVR C	ombination (S) () () () ()	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
DirecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Expressyu Hughes Network	0775 1142, 1442, 1443, 1444	Philips Proscan	11/12, 14/12 0392	Star Choice Tivo	0869 1142 1442 1443 1444
Dish Network System Dishpre	0775, 1505 0775, 1505	Systems	1170	RCA Samsung	1392 1442	Zenith	1810
VCR (V) (-	77.50					
ABS Accunan	1972 0000	GE	0035 0060 0202 0240 0761 0807 1035 1060 2613	MTC Multitech	0000, 0240 0000, 0072	Sansui Sanyo	0000, 0041, 0067, 0209, 0479, 1479 0046, 0047, 0404, 0459, 0240
Admiral Adventura	0048, 0209 0000	Go Video GoldStar	0432, 0526, 0614, 0643, 1137 0037, 0038, 1137, 1237	NEC Nikko	0038, 0040, 0041, 0050, 0067, 0104 0037	Scott Sears	0043, 0045, 0121, 0184, 0212 0000 0035, 0037, 0042 0046 0047
Aiko Aiwa	0278 0000, 0037, 0124, 0307, 0468	Gradiente Harley Davidson	0000	Nikon Niveus Media	0034 1972	Sharp	0104, 0105, 1237 0048, 0807, 0848
Akai Alienware	0041, 0061, 0106, 0175, 0242 1972	Harman/Kardon Harwood	0038, 0075, 0081 0068, 0072	Noblex Northgate	0240 1972	Shintom Shogun	6072 0240
Allegro America Action	1137 0278	Headquarter Hewlett Packard	0046 1972	Olympus Onkyo	0035, 0226 0222	Singer Sonic Blue	0072 0614, 0616, 1137
American High Asha	0035 0240	HI-Q Filachi	0047 0000,0041,0042,0089,0105,2613	Optimus	0037, 0048, 0104, 0162, 0432, 0593, 1048, 1062, 1162, 1262	Sony	0000 0032 0033 0034 0035 0636 1032 1972
Audio Dynamics Audiovox	0040 0037, 0278	Howard Computers	1972 1972	Onon Panasonic	0002, 0184, 0209, 0479, 1479 0035, 0077, 0102, 0162, 0225, 0226,	Stack 9 STS	1972 0042
Beaumark	0240	Hughes Network Systems	0042, 0739	i thidoonic	0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262,	Sylvania	0000, 0035, 0043, 0081, 0110, 0593, 1593, 1781
Bell & Howell Broksonic	0002, 0121, 0184, 0209, 0348, 0479, 1479	Humax	0739, 1797, 1988	120	1582, 1807, 1808, 1809	Symphonic	0000-0593, 1593
Calix	0037	Hush BUYPOWER	1972 1972	Penney	0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237	Systemax Tagar Systems	1972 1972
Canon Captive Works	0035, 0102 2167	Instant Replay Jensen	0035, 0226 0041	Pentax Philco	0042, 0105, 0035	Tashiko Tatung	0037 0041
Carver CCE	0081 0072_0278	KEC:	0008, 0041, 0067, 2079 0037, 0278	Philips	0035, 0081, 0110, 0618, 0739, 1081, 1181	Teac Technics	0000, 0041 0035, 0162, 0246
CineVision Citizen	1137 0037, 0278, 1278	Kenwood KEH	0038, 0041, 0067 0072	Pilot Pioneer	0037 0067, 1337	Teknika Thomas	0000, 0035, 0037 0000
Colt Chaig	0072 0037, 0047, 0072, 0240	Kodak LG	0035, 0037 1037, 1137, 2010	Palk Audio Presidian	0081 1593	Tivo TMK	0618, 0636, 0739, 1337, 1996 0208, 0240
Curtis Mathes Cybernex	0035, 0041, 0060, 0162, 1035 0240	Linksys Lloyd's	1972 0000, 0208	Profitrenc Proscan	0240 0060, 0202, 0761, 1060	Toshiba	0043, 0045, 0212, 0845, 1008, 1145, 1972, 1988, 1996
CyberPower Daewoo	1972 - 0045 0278 0561 0637 1137 1278	Logik LXI	0072 0037	Profee Pulsar	0072 0039	Totevision Touch	0037, 0240 1972
DBX Dell	0040, 0050 1972	Magnasonic Magnavex	0593, 1278 0000 0035, 0039, 0081, 0110, 0149	Quarter Quartz	0046 0046	Unitech Vector	8240 0045
Denon Dimensia	0042 2613	Magnin	0563 0593 1335 1593 1781 0240	Quasar RadioShack	0035 0077 0162 1035 1162 0000 1037	Vector Research Video Concepts	9038, 9040 0040, 0045, 0061
DirecTV Durabrand	0739 0038, 0039	Marantz Marta	0035, 0081 0037	Radix Randex	0037	Videomagic Videosonic	0037 0240
Dynatech	0000	Matsushita	0035, 0162, 1162	RCA	0042 0060 0077 0105 0106 0149 10202 0240 0761 0807 0880 1035	Viewsonic	1972
Electrohome Electrophonic	0037 0037	Media Center PC	1972 0035	Destate	1060, 2613	Villain Voodeo	0000 1972
Emerex Emerson	00032 0000, 0002, 0037, 0043, 0061, 0068, 0134, 0484, 0208, 0209, 0342, 0278	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, 0060, 0072, 0081, 0149, 0212, 0240
	0121, 0184, 0208, 0209, 0212, 0278, 0479, 0561, 0593, 0637, 1278, 1479, 1593	MGA	9043, 9061, 9240	ReplayTy Ricavision	0614,0616 1972	White Westinghouse XR-1000	0072, 0209, 0637 0000, 0035, 0072
ESA	1137	MGN Technology Microsoft	0240, 1972.	Ricon Rio	0034 1137	Yamaha Zenith	0038 0000, 0033, 0034, 0039, 0209, 0479,
Fisher	0047, 0104	Mind	1972	Runco	0039		0637, 1137, 1139, 1479
Fuji	0033, 0035	Minoita	0042,0105	Salora	0075	ZT Group	1972
	0033, 0035 0000, 0593, 1335, 1593 0000	Minoita Mitsubishi	0042, 0105 0043, 0061, 0067, 0075, 0173, 0214, 0242, 0443, 0807	Salora Samsung Samtron	0075 0045, 0240, 0739, 1014 0643	ZT Group	.1972

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

Brand	ombination (V) ()	Brand	Code	Brand	Code	Brand Code
irecTV	0739	Hughes Network Systems	0739	Philips Samsung	0739 0739	Tivo 0739
DVD-Record	der (V) (RBSCBL)			COMPLETE STATE	9.00	
agnavox	0000					
PVR (V) (🚟	1972	Hughes Network	0739	Northgale	1972	Tagar Systems 1972
lienware aptive Works	1972 2167	Systems Humax	0739, 1797, 1988	Panasonic Philips	0614, 0616, 1807, 1808, 1809 0618, 0739	Tivo 9618, 9636, 9739, 1337 Toshiba 1998, 1996
yberPower lell	1972 1972	Hush iBUYPOWER	1972 1972	Pioneer RCA	1337 0880	Touch 1972 Viewsonic 1972
lirec1V	0739	LG	2010	ReplayTV	0614, 0616	Voodoo 1972
iateway io Video	1972 0614	Linksys Media Center PC	1972 1972	Samsung Sonic Blue	8739 0614, 0616	ZT Group 1972
ewiett Packard oward Computers	1972 1972	Microsoft Mind	1972 1972	Sony Stack 9	0636, 1972 1972	
P DVD OV / DW	1972	Niveus Media	1972	Systemax	1972	
DVD (Y) (ccurian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo (0698, 0752
doom wa	1094 0641	Enterprise ESA	0591 1288	Marantz Mointosh	0539 1273	Samsung 0199, 0490, 0573, 0820, 0899, 1 1075, 1470
KBI	0695,0770,0899,1089 0790	Fisher	0670 0675, 1268, 1334	Memorex Microsoft	0695, 0831, 1270 0522, 1708, 2083	Sansui 0695 Sanyo 0670, 0695, 0873
co legro	0869	Funai Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science 1158
mphion Media Works เม่ง	0872, 1245	GE Go Video	0522, 0717, 0815 0715, 0741, 0744, 0783, 0833,	Mitsubishi Momitsu	0521, 1521 1082	Sharp 0630, 0675, 0752, 1256 Sharper Image 1117
oex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730	NAD Nakamichi	0692, 0741 1222	Sherwood 0633, 0770, 1043, 1077 Shinsonic 0533, 0839
rgo spire Digital	1023 1168, 1407	Go Vision GoldStar	1072 0741	NEC Nesa	0785 0717	Sigma Designs 0674 Sonic Blue 0869 1099
star udiologic	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony 0533, 0864, 1033, 1069, 1070, 1 1432, 1433, 1516, 1533, 1536, 1
zdiovox	0736 0790 1041 1072 1121 1122	Greenhill Harman/Kardon	0717 0582, 0702	NexxTech Norcent	1402 0872, 1003, 1107, 1265	1791, 1824, 1892, 1903, 1904, 1 1981, 2020, 2043
kion & K	1072 0655,0662	Helios Hello Kitty	2080 0831	Nova Onkyo	1517 0503, 0627, 0792, 1769	Sova 1122
3K al Canto Design	1224 1571	Hitachi Hiteker	0573, 0664, 1247 0672	Oppo OptoMedia Electronic	0575, 1224 1525 s 0896	Sungale 1074 SVA 0860, 1105
aupunkt ue Parade	0717 10571	Humax iLo	1500, 1588 1348, 1472	Ontron Panasonic	0651. 0458, 0490, 0632, 0703, 1010, 1011,	Sylvania 0675, 1268 Symphonic 0675
roksonic	0695, 1419 1057	Initial	0717, 1472 1288 2095	1 41/000110	1362, 1462, 1464, 1490, 1641, 1762, 1907, 1908, 1909, 1910, 1925, 1986,	TAG McLaren 0894
AVS inea	0831	Insignia Integra	0627	TI AULISIASI MISANI MANUMINANA	1990, 2017, 2060, 2061, 2062	Teac 0790 Technics 0490, 0703
nego neVision	1399 0833, 0869, 0876	Jaton JBL	1078 0702	Philips Philips	0675 0503, 0539, 0646, 0675, 1267, 1340,	Technosoric 0730 Techwood 0692
tizen oby	0695, 1277, 1587, 2116 0778, 0852, 1086, 1107, 1165, 1177,	JVC	1423 0558, 0623, 0867, 1164, 1275,	Pioneer	1354, 2056, 2084 0142, 0525, 0571, 0631, 0632, 1571	Terapin 1031 Theta Digital 0571
aig	1351, 1628 0831	pWin	1550, 1602 1049, 1051, 1675	Polaroid	1020, 1061, 1086, 1245, 1316, 1478, 2130	Two 1503 Toshiba 0503, 0695, 1045, 1154, 1503, 1
urtis Mathes vberHome	1087 - 0816, 0874, 1023, 1024, 1117, 1129	Kawasaki Kenwood	0790 0490, 0534, 0682	Polk Audio Portland	0539 0770	1608, 1769, 1854 Tredex 0799, 0800, 0803, 0804
	1602, 1537	KLH	0717, 0790, 1020, 1149	Presidian	0675, 1072	Urban Concepts 0503
Bewoo	0705, 0784, 0833, 0869, 1169, 1172, 1234, 1242, 1441	Konka Koss	0711,6721 0651,0896,1423	Princeton Proscan	0674 0522	US Logic 0839 Venturer 0790
enon esay	0490, 0634, 1634 1407	Landel Lasonic	0826 0798, 1173	ProVision Gwester	0778 0651	Vizio 1064, 1226 Vocopro 1027, 1360
amond Vision sney	1316 0675, 1270	Lenoxx LG	1127 0591, 0741, 0869	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox 0522, 1708, 2083 Xwave 1001
ual urabrand	1068, 1085 1127	LiteOn Loewe	1058, 1158, 1416, 1440, 1856 0511	Rio RJTech	0869 1360	Yamaha 0490, 0497, 0539, 0545 Zenith 0503, 0591, 0741, 0869
/D2000	0521	Magnayox	0503 0539 0646 0675 1268 1354 1472 1506	Rotel	0623, 1178	Zoece 1265
ectrohome DVD-Record	2116 der (Y) (142, 1390	Rowa	0823	
curian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony 1033, 1069, 1070, 1431, 1432, 1433, 1536
oex Digital spire Digital	1056 1168	Gateway Go Video	1073, 1158 0741, 1158, 1304, 1730	Philips Pioneer	0646, 1340 0631	Sylvania 0675
oksonic tizen	1419 2116	JVC	1348 1164, 1275	Polaroid RCA	1086, 2130 0522	Toshiba 1588 Zenith 0741
aby /berHome	1086 1129, 1502	LG LiteOn	0741 1158, 1416, 1440	Samsung Sensory Science	0490, 1470 1158	
ectrohome	2116	Magnavox	0846, 0675, 1506	Sharp	0675	
Blu-ray Disc	C (Y) ()	Philips	2084	Samsung	0199	
anasonic	1641, 2061, 2062	Pioneer	0142	Sany	1516	
HD-DVD (Y)	(N) 0741	Onkyo	1769	RCA	1769	Toshiba 1769
。 HTiB (Y) (0	SARYU.	11115	NOA	Troa	1350 TRAC
iwa	0641	Panasonic	0458 1779 1907 1908 1909 1910 1925 1990 2017	Rio	6869 1077	Teac 0790
udiovox LH	0790 0790	Philips	1267	Sherwood Sonic Blue	1077 0869	Toshiba 1854 Venturer 0790
oss ritron	0651 0651	Polk Audio RCA	0539 0790	Sony	1824, 1892, 1903, 1904, 1934, 1981, 2020, 2043	Yamaha 0497

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)

	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.
Χ	ADULTS ONLY.

■U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
VR 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.)

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

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

SANCE SANCES	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

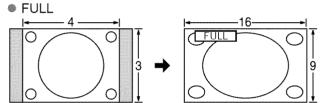
Technical Information

Closed Caption (CC)

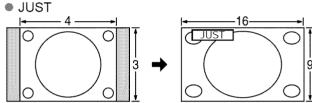
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM, or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to 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.
- 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)

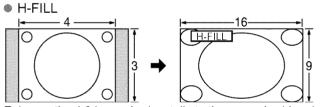


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

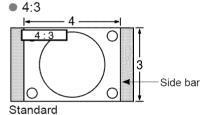


Stretches to justify the 4:3 image to the four corners of the

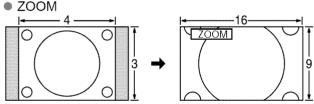
(Recommended for normal TV broadcast)



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



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



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

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

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



Data format for SD Card browsing

Photo: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF**

standards

Data format: Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)

Max. number of files: 9.999

Image resolution: 160 x 120 to 10,000,000

* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

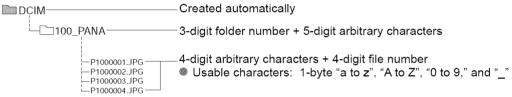
** EXIF (Exchangeable Image File Format)

(Caution)

- A JPEG image modified with a PC may not be displayed.
- Partly degraded files might be displayed at a reduced resolution.

Note

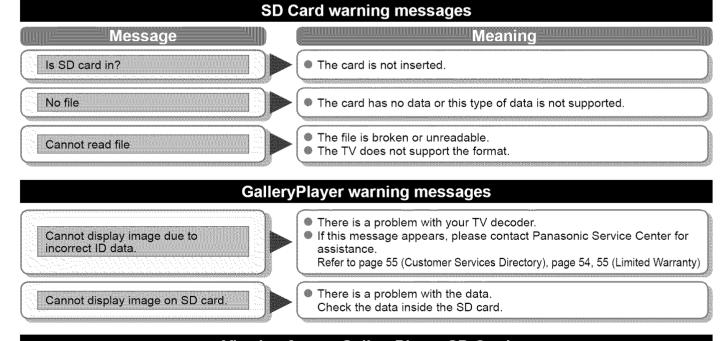
Folder structure viewed in PC



- 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 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.)



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.

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 37-38 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.

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.

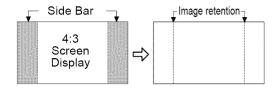
Side Bar

Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field.

To reduce the risk of such "Image retention", change the brightness of the side bars.

See pages 26-27 for more information

The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (See below).



Scrolling bar

Scrolling bar: To prevent "Image retention", scrolls white vertical bar from left to right on a black screen.

- Press any key except the POWER key to return to previous screen.
- You will return to previous screen if no key operation has not been performed for 15 minutes. See pages 26-27 for more information



Input signal that can be displayed

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

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	**	********	***************************************
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	***************************************	*	***************************************
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00	*	***************************************	***************************************
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00	***************************************	* * * * * * * * * * * * * * * * * * * *	9
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94	*	8	*
Macintosh13" (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00	*	8	***************************************
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32	*	***************************************	********
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08	*	*	*******
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00	*	***************************************	***************************************
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03	9	***************************************	*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06	9	9	***************************************
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00	***************************************	***************************************	********

Note

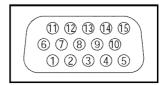
- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

PC Input Terminals Connection

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

If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

Signal Names for D-sub 15P Connector



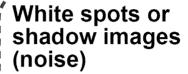
	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)		NC (not connected)
2	G	7	GND (Ground)	12	NC
3	В	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	NC (not connected)	14	VD
5	GND (Ground)	10	GND (Ground)	15	NC

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





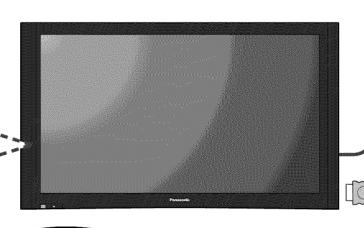


Check the position, direction, and connection of the antenna.

Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 35). If the signal is weak, check the antenna and consult your local dealer.





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

- Is the HDMI cable connected properly? (p. 40, 41)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 49)
- Use equipment compliant with EIA/CEA-861/861B.

Recording does not start immediately

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

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the battery run down?

"Press any key to return" moves on the screen

- The function to prevent "Image retention" is activated. (Not a faulty symptom)
 - The screen saver is activated if the TV unit is not operated for a certain time in SD mode.
 - "Image retention" (p. 5)

One spot remains dark

 A pixel or luminescent spot can occasionally be missing in plasma displays. (Not a faulty symptom)

Chaotic image, noisy

 Check nearby electrical products (car, motorcycle, fluorescent lamp).

No image can be displayed

- Check Picture menu (p. 24)
- Check the cable connections.
- Check that the correct input has been selected.

Only spots are displayed instead of images

- Check the channel settings. (p. 34)
- Check the antenna cables.

Neither image nor sound is produced

- Is the AC power cord plugged into the outlet?
- Is the TV unit turned On?
- Check Picture menu (p. 24) and volume.
- Check the AV cable connections.
- Check that the correct input has been selected.

Black Box appears

Change settings of Closed Caption (CC). (p. 36)

No sound is produced

- Are the speakers' cables connected correctly? (p. 40)
- Is "Sound Mute" active? (p. 13)
- Is the volume set to the minimum?
- Is "Speaker output" set to "Off"? (p. 24)
- Change "SAP" settings. (p. 16)
- Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 24)

Sound is unusual

- Set "SAP" setting to "Stereo" or "Mono."
- Check the HDMI device connected to the unit.
- Set the audio setting of the HDMI device to "Linear PCM."
- If digital sound connection has a problem, select analog sound connection.

Whirling sound is heard

The sound is from built-in cooling fan (not a sign of faulty operation).

Parts of the TV set become hot.

Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality.

Sound

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.

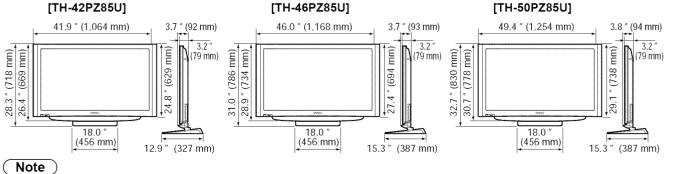
- If the cabinet is particularly dirty, soak the cloth in a weak mild liquid dish soap and then wring the cloth dry.
 Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the Plasma TV. If water 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-42PZ8	35U	TH-46PZ85U	TH-50PZ85U		
ow	rer Source	AC 120 V, 60 Hz					
Powe	Maximum	573 W		628 W	690 W		
Power	Standby condition	0.2 W		0.2 W	0.2 W		
	Drive method	AC type					
las	Aspect Ratio	16:9					
Plasma Display	Visible screen size (W × H × Diagonal)	42 " class (41.6 inc measured diagonal 36.2 " × 20.4 " × 41 (922 mm × 518 mm	lly) .6 "	46 " class (46.0 inches measured diagonally) 40.1 " × 22.5 " × 46.0 " (1,019 mm × 573 mm × 1,169 mm	50 " class (49.9 inches measured diagonally) 43.5 " × 24.4 " × 49.9 ") (1,106 mm × 622 mm × 1,269 mm		
æ	(No. of pixels)	2,073,600 (1,920 (\ [5,760 × 1,080 dots	W) × 1,080 (H		,		
Sound	Audio Output	20 W [10 W + 10 V					
C s	signals	VGA, SVGA, XGA, Horizontal scanning Vertical scanning fr	g frequency 3	1 - 69 kHz			
	nnel Capability ital/Analog)	VHF/ UHF: 2 - 69,					
pe	rating Conditions	Humidity: 2	20 % – 80 % F	F (0 °C - 40 °C) RH (non-condensing)			
	VIDEO IN 1-2	S-VIDEO: N AUDIO L-R: F	vlini DIN 4-pir RCA PIN Type	e × 2 0.5 V [rms]	C: 0.286 V [p-p] (75 Ω)		
	COMPONENT INPUT 1-2	PB, PR: ±	0.35 V [p-p]	cluding synchronization) e × 2 0.5 V [rms]			
} 5 5	HDMI 1-3	TYPE A Connector × 3 ■ This TV supports "HDAVI Control 3" function.					
Connection Terminals	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					
2	Card slot	SD CARD slot × 1					
	AV PROG OUT	VIDEO: F AUDIO L-R: F	RCA PIN Type RCA PIN Type	e × 1 1.0 V [p-p] (75 Ω) e × 2 0.5 V [rms]			
	DIGITAL AUDIO OUT	PCM / Dolby Digita					
	TURES	3D Y/C FILTER C V-Chip Photo viewer F	CLOSED CAF				
Dimensions	Including pedestal	41.9 " × 28.3 " × 12 (1,064 mm × 718 mi		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		
sions	TV Set only	41.9 " × 26.4 " × 3.7 (1,064 mm × 669 mi		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)		
Mass	Including pedestal	70.5 lb. (32 kg)		81.6 lb. (37 kg)	88.2 lb. (40 kg)		
ñ	TV Set only	66.1 lb. (30 kg)		77.2 lb. (35 kg)	83.8 lb. (38 kg)		



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	IN-HOME 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 in-home 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.

In-Home or Carry-in Service

For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV(1-888-843-9788). For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

In-Home service requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, 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 IN-HOME 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/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-888-VIEW-PTV (843-9788)

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 8 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: <u>www.vieraconcierge.ca</u>

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

IF YOU SHIP THE PRODUCT TO A 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.

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.	
para disponer de los servicios que le ofrece la garantía	o en el caso de que le sea sustraido o lo pierda, y también
para disponer de los servicios que le ofrece la garantía Modelo	o en el caso de que le sea sustraido o lo pierda, y tambien Número de serie

Panasonic Puerto Rico, Inc.

Ave. 65 de Infanteria, Km. 9.5

San Gabriel Industrial Park

Carolina, Puerto Rico 00985

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of North America

Panasonic Canada Inc.

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