

Operating Instructions 46"/50" Class 1080p Plasma HDTV (46.0/49.9 inches measured diagonally)

Manual de instrucciones

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

> Model No. Número de modelo TH-46PZ850U TH-50PZ850U



Quick Start Guide

(See page 6-15)

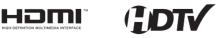
Guía de inicio rápido

(vea la página 6-15)

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

ó visítenos en www.panasonic.com











VIECA Link^m

English

Español

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

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

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







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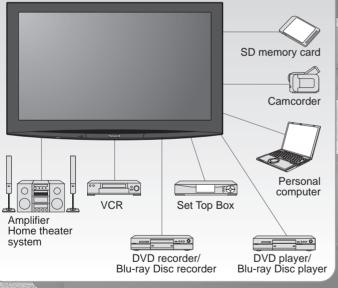
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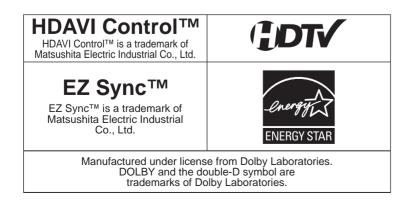
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Enjoy rich multimedia





Safety Precautions





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

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

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

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

Important Safety Instructions

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

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



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

FCC Caution:

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

FCC Declaration of Conformity Model No. TH-46PZ850U, TH-50PZ850U

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

Small parts can present choking hazard if accidentally swallowed.

Keep small parts away from young children.

discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

Set up

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

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

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

This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury. (All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

Watsushita Electric Industrial Co., Ltd.)

- Wall-hanging bracket (Vertical) TY-WK42PV4W
- Wall-hanging bracket (Angled) TY-WK42PR4W
- Always be sure to ask a qualified technician to carry out set-up.
 Two or more people are required to install and remove the television. If two people are not present, the television may be dropped, and personal injury may result.

Transport only in upright position!

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

■ AC Power Supply Cord

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

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

The included power cord is for use with this unit only. Do not use any power cord other than that provided with this TV.

Doing so may cause fire or electric shocks.
 Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

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

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

If problems occur during use

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

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

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

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

Do not cover the ventilation holes.

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

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

When using the Plasma TV

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

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

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

Electric shocks can result if this is not done.

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

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

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

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

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

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

Notes

■ Do not display a still picture for a long time

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

Typical still images

Channel number and other logos

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

Computer image

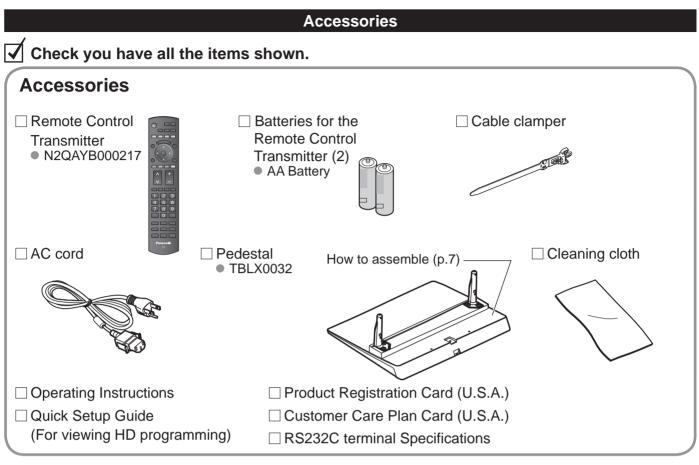


To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 61)

Set up

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

Accessories/Optional Accessory







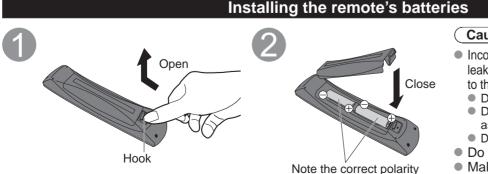


Wall-hanging bracket (vertical) TY-WK42PV4W

(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 over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause its panel to crack.



(+ or -).

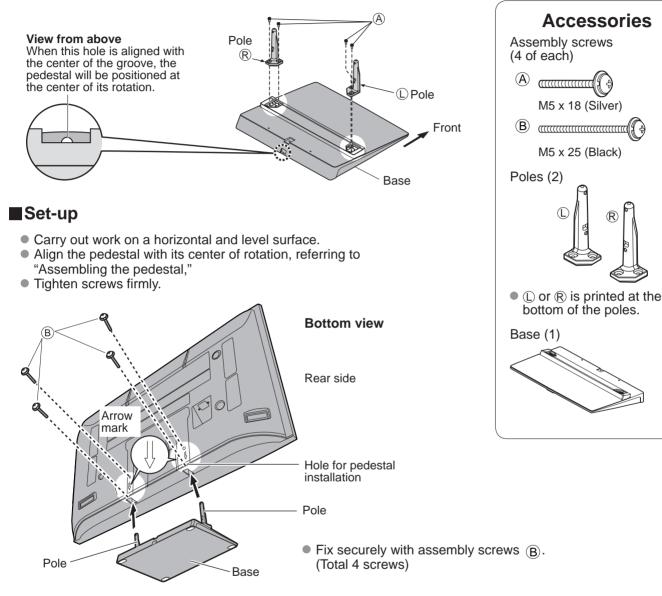
Caution

- 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. 47)

Attaching the pedestal to TV

Assembling the pedestal

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



Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

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

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

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

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

Accessories/Optional Accessory (Continued)

Location

Adjust the plasma panel to your desired angle.

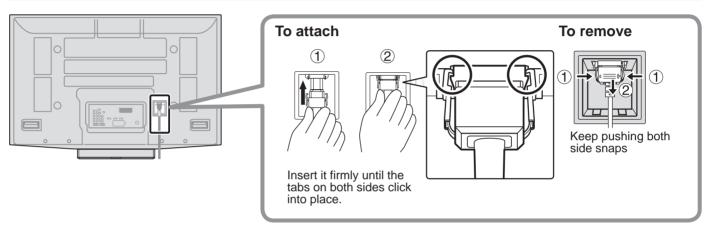
(View from above)

a: 17.9 " (453 mm) b: 20.2 " (513 mm) c: 10°

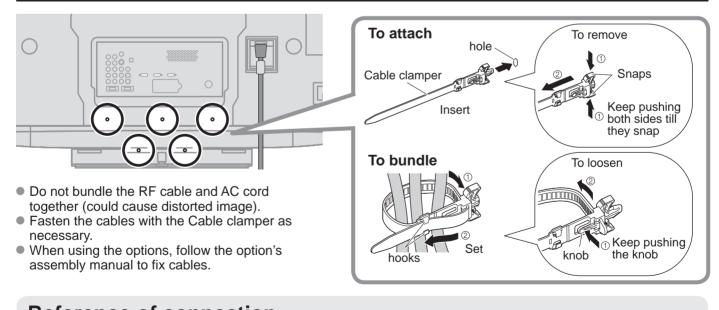
Note

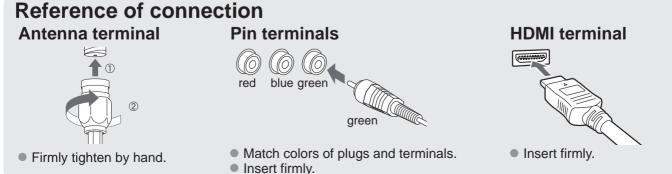
- Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
- Do not place any objects or hands within the full rotation range.





Cable Binding Instructions



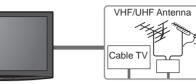


Basic Connection

Example 1

Connecting Antenna (To watch TV)

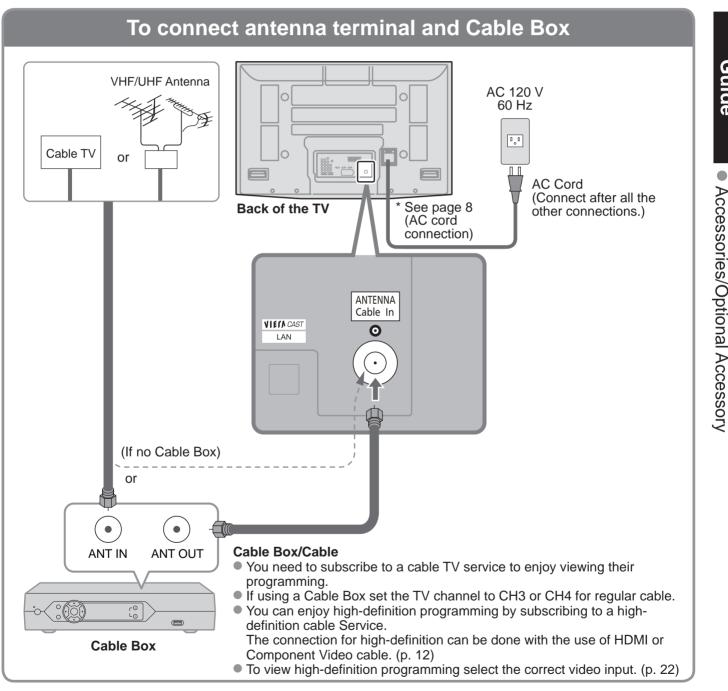
тν



VHF/UHF Antenna

 NTSC (National Television System Committee): Conventional broadcasting

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



Note

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

www.panasonic.ca

Basic Connection (Antenna + TV

Basic Connection (Continued)

Example 2

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

Т٧

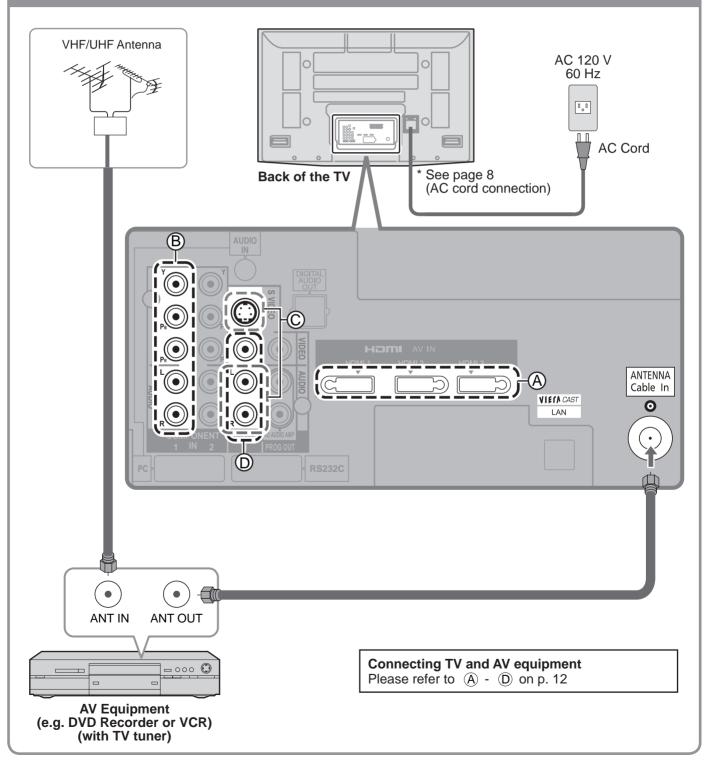


DVD Recorder

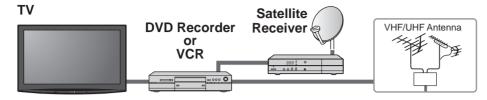
If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable. (p. 12) VCR

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

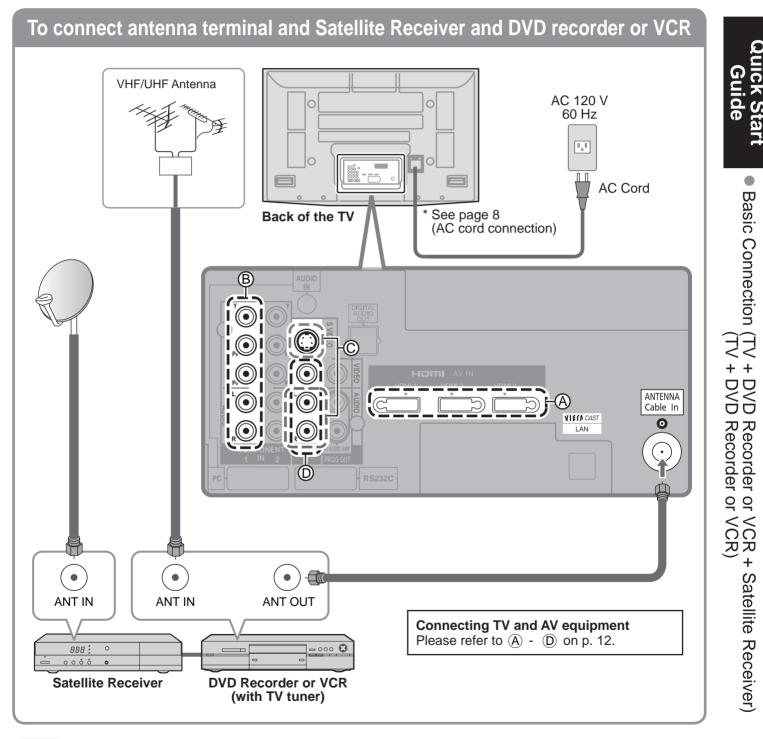
To connect antenna terminal and DVD recorder or VCR



Example 3 Connecting DVD recorder (VCR) and satellite receiver



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



Note

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

Basic Connection (Continued)

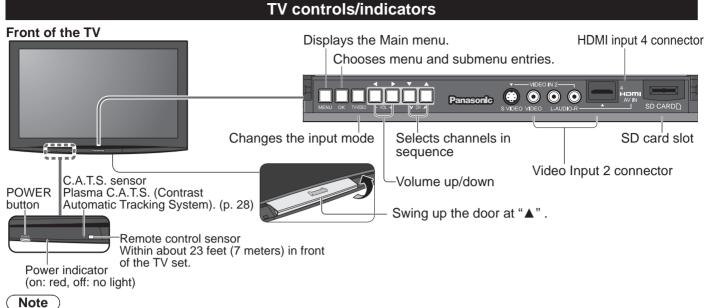
AV cable connections **(A)** To use HDMI terminals **AV Equipment** HOM AV IN HDMI HDMI 1 AV OUT e.g. Blu-ray Disc player Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-guality sound. For "VIERA Link[™] connections", please refer to p. 49. igh-Definition **B** To use COMPONENT terminals (\bullet) COMPONENT green green green VIDEO OUT P \bigcirc blue blue blue **AV Equipment** (\bullet) red red red e.g. Blu-ray Disc player ╡<u></u> L AUDIO (\bullet) white OUT white white R (lacksquarered COMPONEN red red IN 2 Recorders may also be connected to COMPOSITE or S VIDEO terminals. (see below) © To use S VIDEO terminals S VIDEO AV Equipment OUT e.g. DVD Recorder Standard-Definition (\bullet) . or white white white AUDIO Ч°С i d OUT ۲ red red red VIDEO IN e.g. VCR **D** To use COMPOSITE terminals **AV Equipment** 1 (\bullet) . E e.g. DVD Recorder yellow yellow yellow COMPOSITE or . • () OUT white white white Ц°С (• R red red red e.g. VCR VIDEO IN The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable. Connecting to S VIDEO terminals will enable you to enjoy greater picture quality than using Composite

Note

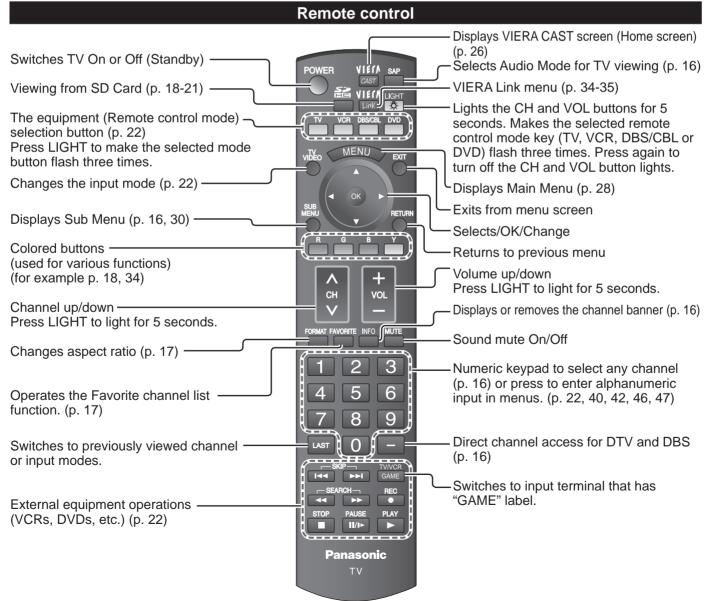
terminals.

- 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 this equipment.

Identifying Controls

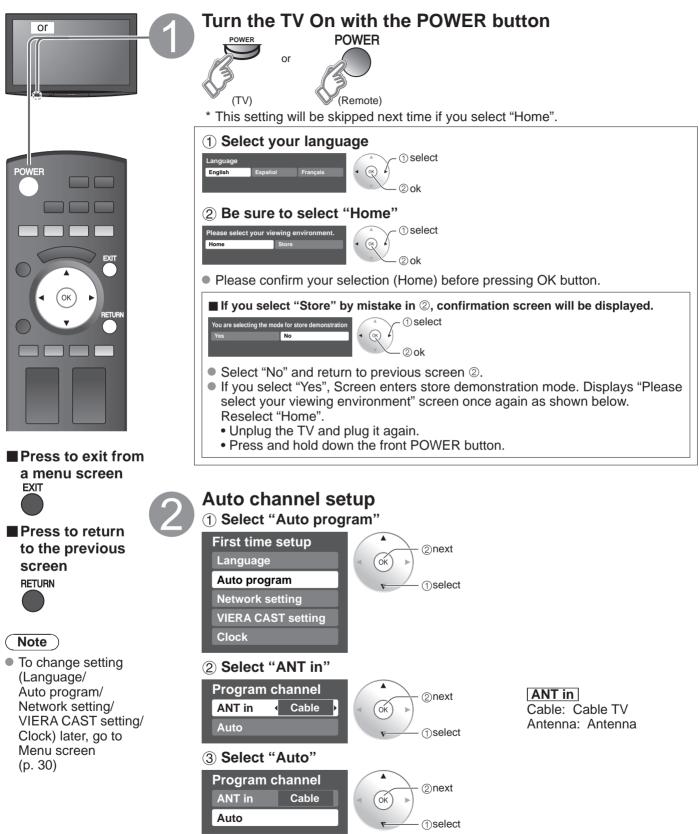


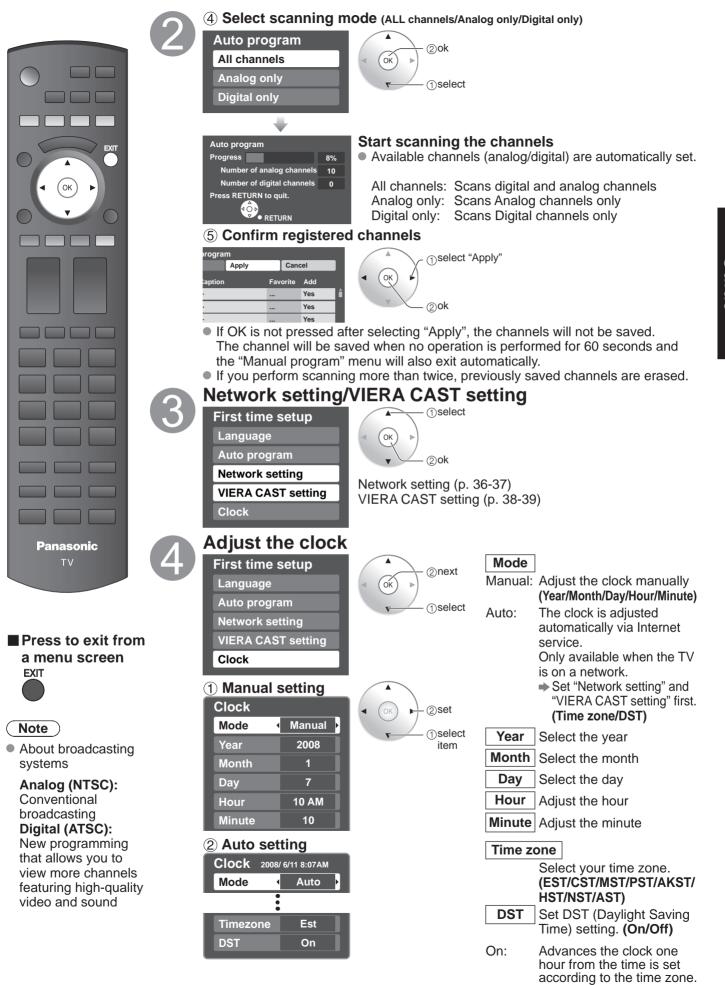
• The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.



First Time Setup

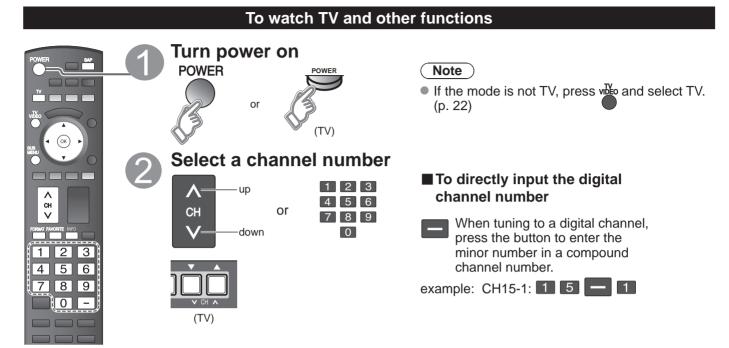
"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 30-31) is set to "No".



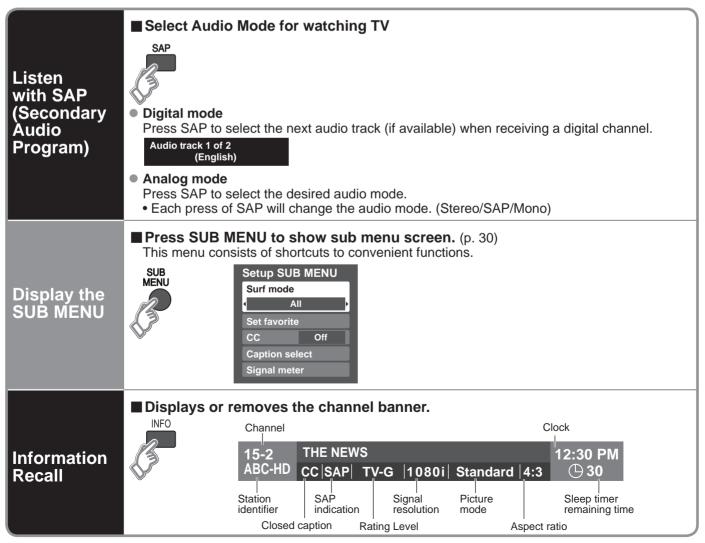


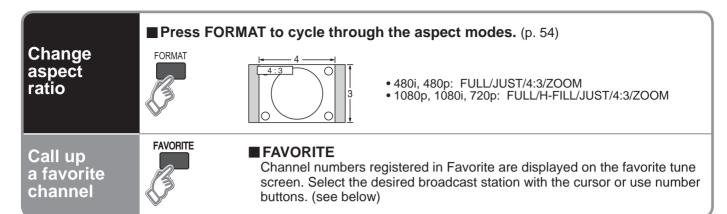
Watching TV

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



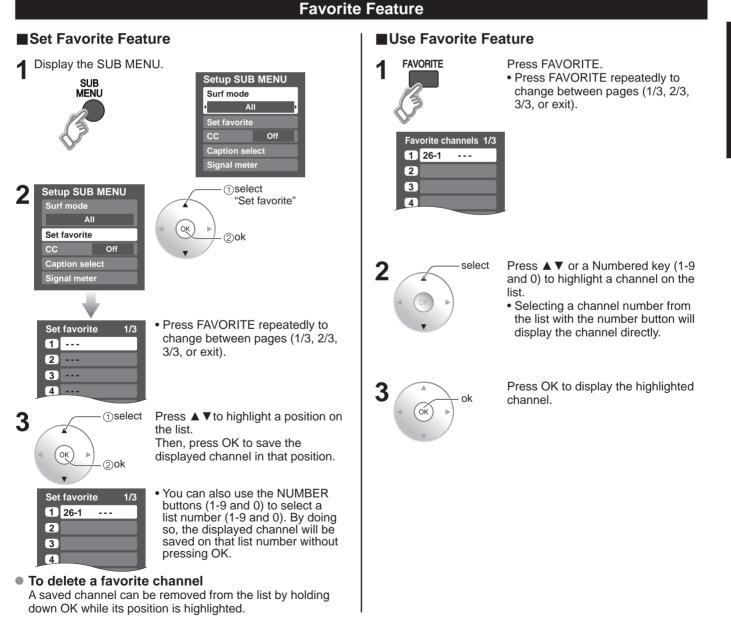
Other Useful Functions (Operate after 2)





Note

- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 43)
- The channel number and volume level remain the same even after the TV is turned off.

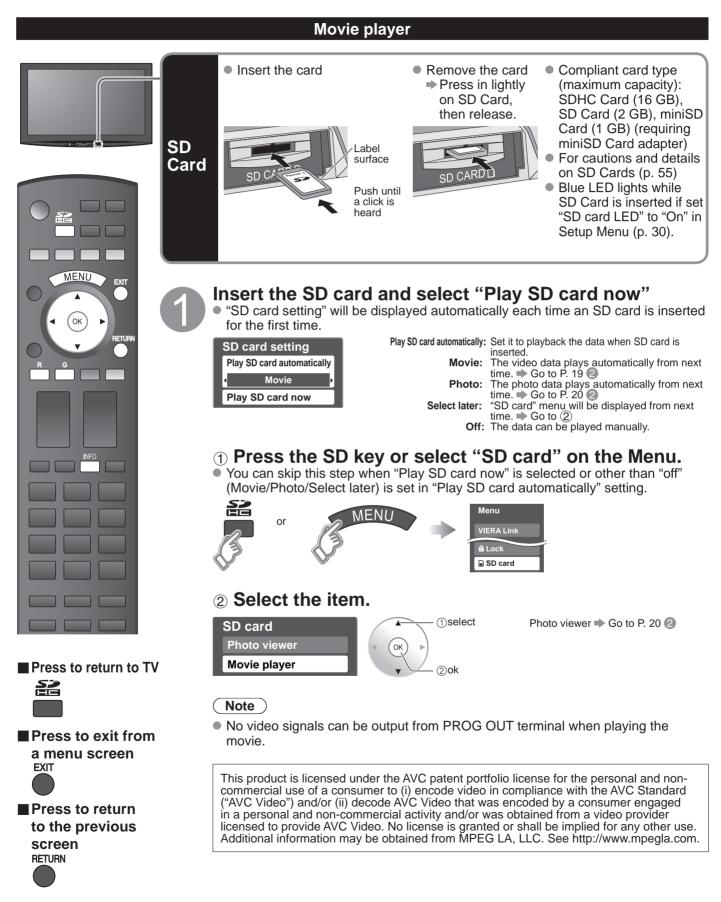


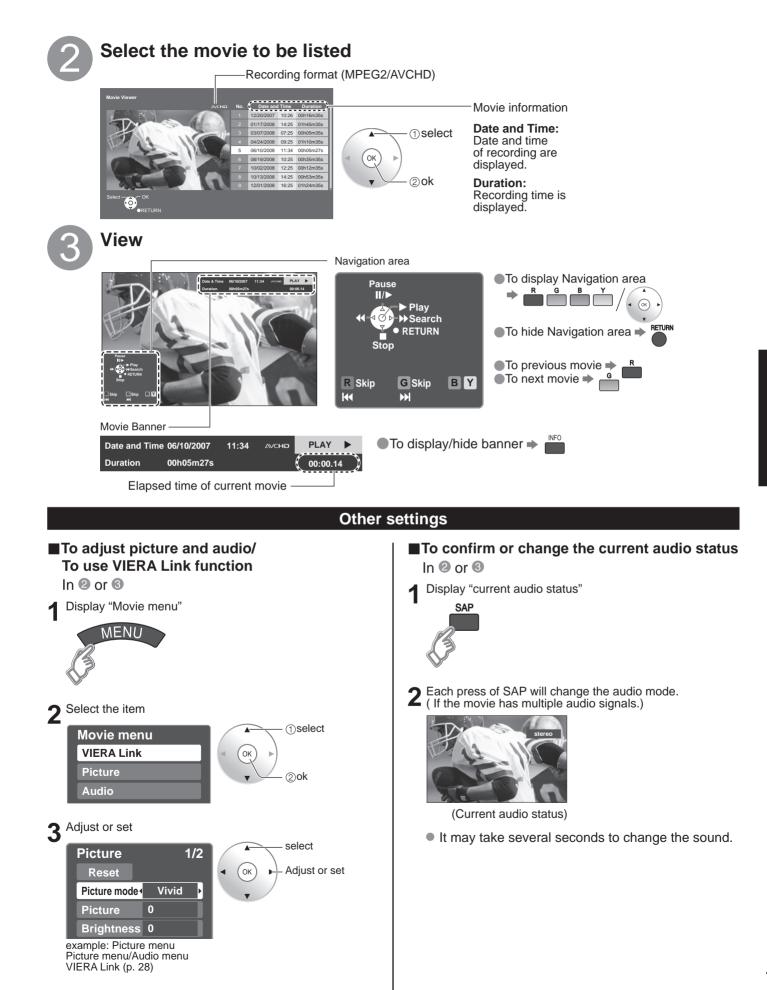
Viewing

Watching TV

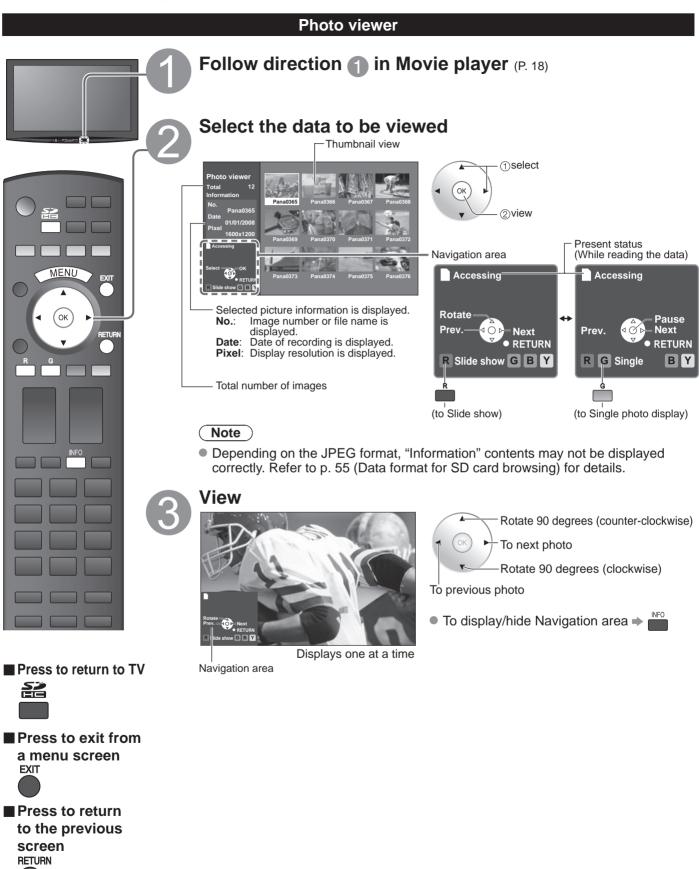
Viewing from SD Card

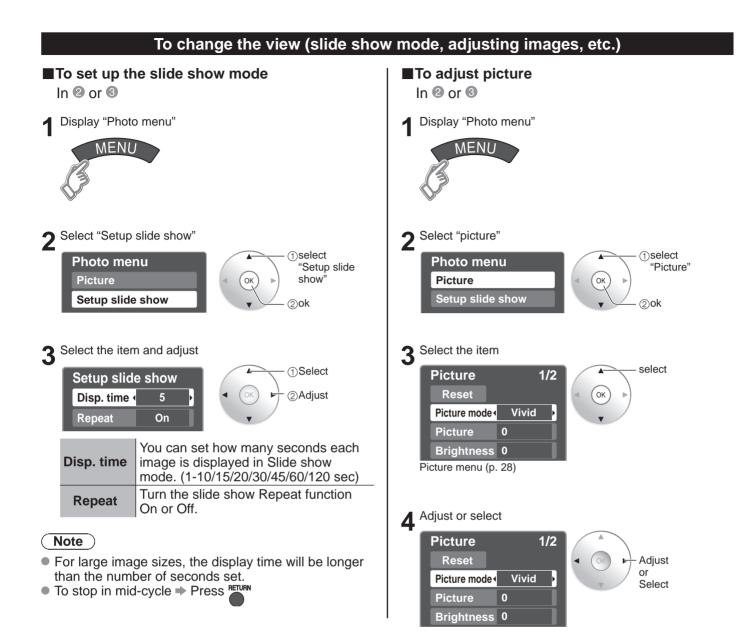
You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)





Viewing from SD Card (Continued)





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.

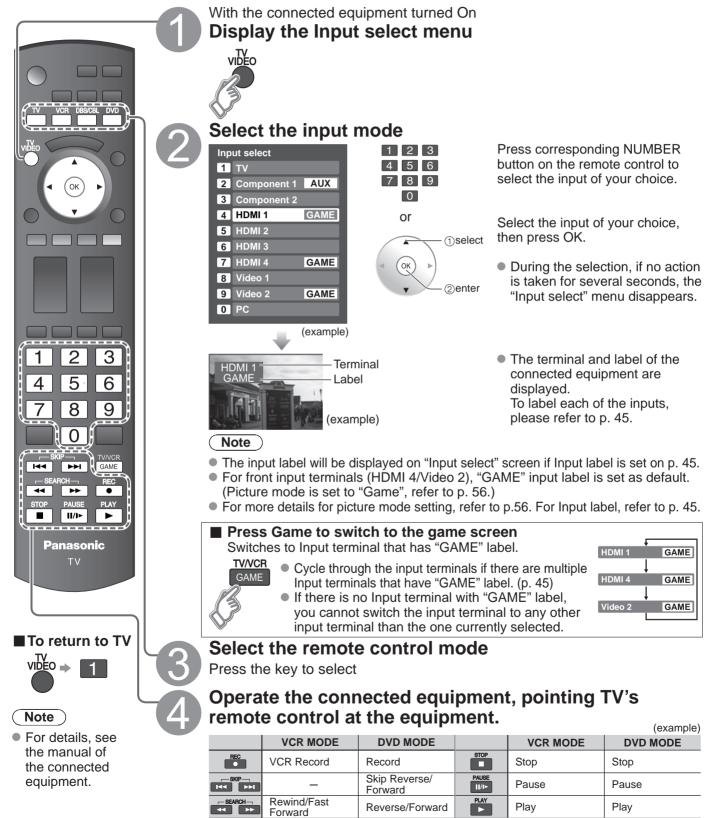
Watching Videos and DVDs

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.

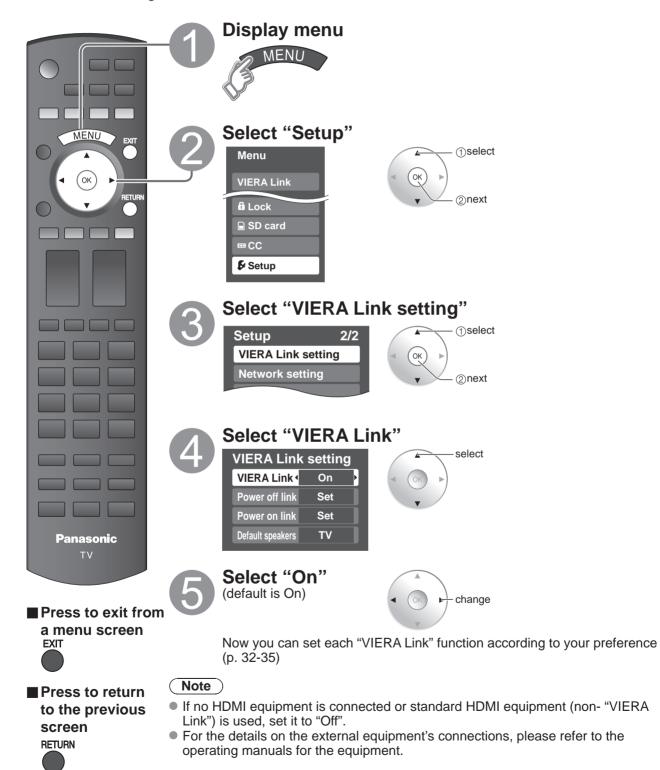
To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 47)



(For other operations, see p. 50)

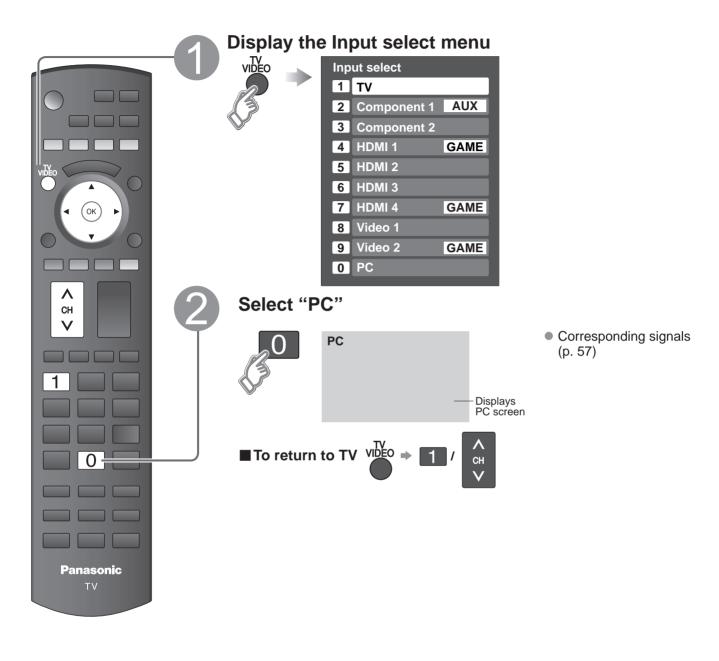
VIERA Link[™] Setting

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. 32-35. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 48)



PC menu setting (change as desired)
 Making settings * "How to Use Menu Functions" 1 to 4 (p. 28)

Menu	Item		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. 57) On G: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 57)
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
Picture		H-position	Adjusts the horizontal position.
		V-position	Adjusts the vertical position.
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.
		Input resolution	Switches to wide display. Input signal switched from VGA to WVGA Input signal switched from XGA to WXGA
		H-frequency V-frequency	 Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz

Audio menu (p. 28)
For PC input, only audio signals can be output from PROG OUT terminals.

VIERA CAST[™]

Preparations

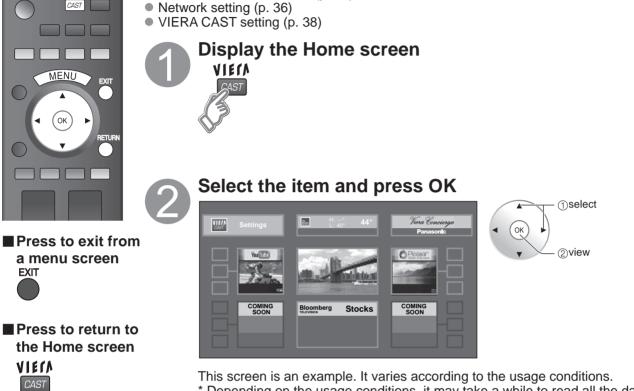
VIELV

CAST

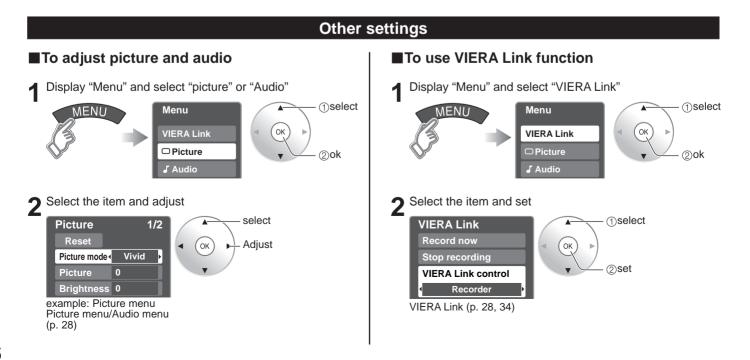
Operate VIERA CAST

You can access information services (TV content) from the Home screen via the Internet. • You need broadband environment to use this service.

VIERA CAST connections (p. 27)



* Depending on the usage conditions, it may take a while to read all the data.



VIERA CAST connections



Contact your Broadband service provider

If you don't have broadband service, please order the high-speed Internet service no less than 1.5 Mbps by your local broadband company. If you already have Internet high speed service, make sure that the connection speed is at least 1.5Mbps. Please note that dial-up Internet service cannot be used for the IPTV.



Select wired or wireless connection

If the Cable/DSL modem is close to the TV and you have only one TV set, you might choose wired connection. If the Cable/DSL modem is far from the TV and/or you have more TV's in the house, you might want to use wireless network.



Connecting to the internet

A Basic connection

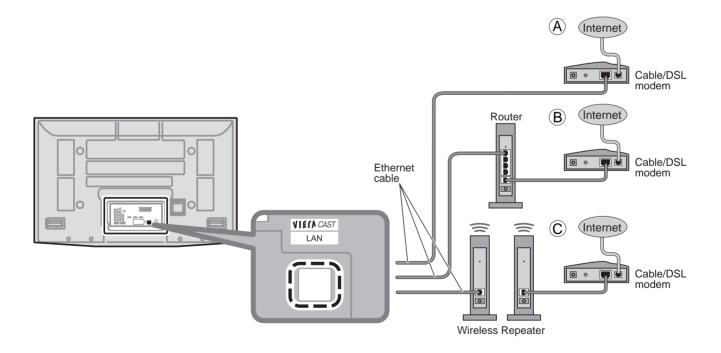
If you are not using the network for connecting anything else but the TV, you could just connect the TV directly to the Cable/DSL Ethernet connection (see schematic below).

B Advanced wired connection

If you are using the network for connecting many PC's/Laptops and want to connect the TV, you should use a router to connect the TV to the internet (see schematic below).

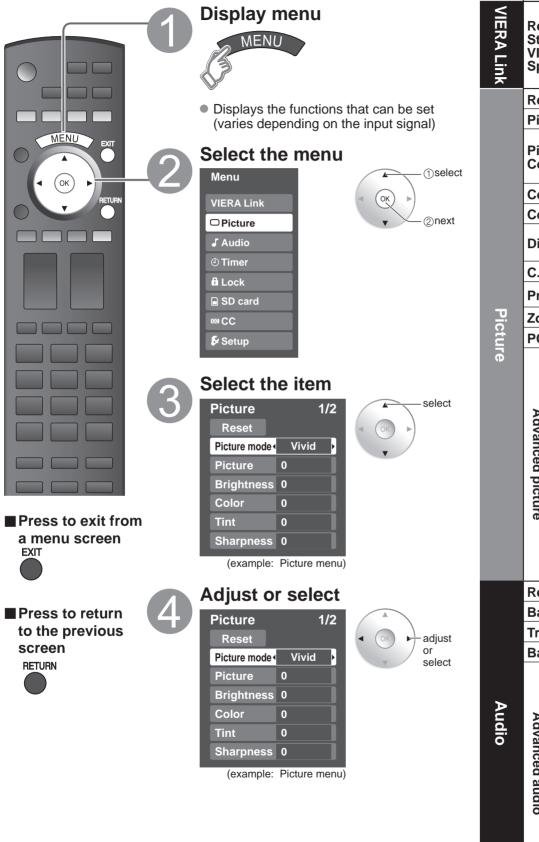
C Advanced wireless connection

If you are using the network for connecting many PC's/Laptops and want to connect the TV, you could also use a wireless router to connect the TV to the internet (see schematic below).



How to Use Menu Functions

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



Menu list			
Menu	Item		
VIERA Link	Record now Stop recording VIERA Link control Speaker output		
	Reset		
	Picture mode		
	Picture, Brightness, Color, Tint, Sharpness		
	Col	or temp.	
	Col	or mgmt.	_
	Dig	ital cinema color	
	C.A	.T.S.	
	Pro	setting	
Picture	Zoc	om adjust	
tur	PC	adjust	_
Ø		Video NR	_
		3D Y/C filter	
	Advanced picture	Color matrix	
		Block NR	
		Mosquito NR	
		Black level	
		3:2 pulldown	<u> </u>
		24p Direct in	
		HD size	
	Res	set	
	Bas	S	
	Tre	ble	
	Bal		
		AI sound	_
Audio	A	BBE VIVA 3D	
dic	Advanced audio	BBE	
		Surround	
		Audio leveler	
		Speaker output	
		HDMI 1 in HDMI 2 in HDMI 3 in HDMI 4 in	
Timer	Sleep, Timer 1-5		
Lock			

Adjustments/Configurations (alto	ernatives)	
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote control (p	p. 34-35).	
[VIERA Link control]		
Selects equipment to access and operate. (Recorder/Home theater/Player/C [Speaker output]	Jamcorder) (p.34-35)	
 Selects an audio output. (Home theater/TV) (p. 34-35) VIERA Link menu is accessible directly by pressing the VIERA Link button on the r 	remote control.	.)
Resets all picture adjustments to factory default settings except for "Advanced		Reset
Basic picture mode (Vivid/Standard/Studio ref/Game/Custom) (p. 56)		Picture mode Viv
Adjusts color, brightness, etc. for each picture mode to suit your taste	Picture +20	Tint 0
 Display range Picture/Brightness/Color/Sharpness: 0 - 100 	Brightness 0	Sharpness 0
Tint: -50 - +50	Color 0	
Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool/Normal/W	/arm)	Color temp. Co
On: Enhances green and blue color reproduction, especially outdoor scenes.	<u> </u>	Color mgmt. C
Auto: Automatically adjusts the color gamut of the input image to the color gam On: Shows an expanded display of the input image color gamut. Off: Displays the color gamut of the input image as is. (Auto/On/Off)	nut of the panel.	Digital cinema color Au
Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On	ו)	C.A.T.S. 0
Adjust the "Picture mode" setting in more detail. (p. 56) (This setting can be adjusted only when "Custom" or "Photo" is selected.)		Pro setting
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 54)		Zoom adjust
Sets PC display (p. 24)		PC adjust
Reduces noise, commonly called snow. Leave it off when receiving a strong si	ignal. (Off/On)	Video NR O
Minimizes noise and cross-color in the picture. (On/Off)		3D Y/C filter
Selects image resolution of component-connected devices (HD/SD)		
 SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. 		Color matrix S
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)		Block NR 0
Reduces HDTV flicker noise in the contoured sections of an image (Off/On)		Mosquito NR C
Selects Dark or Light. Valid only for external input signals. (Dark/Light)		Black level Lig
Transfers film to video. (On/Off)		3:2 pulldown C
48Hz: Achieves more cinematic playback by reproducing the movie contents a frames per second. (60Hz/48Hz)	at twice the speed of 24	24p Direct in 60
 Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-defir Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% 	nition signal. (Size 1/ Size 2)	HD size Siz
Resets Bass, Treble and Balance adjustments to factory default settings.		Reset
Increases or decreases the bass response.		Bass 0
Increases or decreases the treble response.		Treble 0
Emphasizes the left / right speaker volume.		Balance 0
Equalizes overall volume levels across all channels and external inputs. (On/C	Off)	Al sound O
BBE ViVA HD3D (High-Definition 3D) Sound provides musically accurate natural 3D image with Hi- is improved by BBE while the width, depth and height of sound image are expanded by BBE's prop ViVA HD3D Sound is compatible with all TV programs including news, music, dramas, movies, spor	prietary 3D sound process. BBE	BBE VIVA 3D C
BBE High Definition Sound restores clarity and presence for better speech intelligibility		1
Enhances audio response when listening to stereo. (On/Off)		Surround O
Minimizes volume disparity after switching to external inputs		Audio leveler 0
Switch to "Off" when using external speakers (On/Off) "AI sound", "Surround", and "Audio leveler" do not work if "Off" is selected 		Speaker output O
The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC)	HDMI1 inDigitalHDMI2 inDigital	HDMI3 in Digit
The TV can automatically turn On/Off at the designated date and time (p. 46)		Sleep 6

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

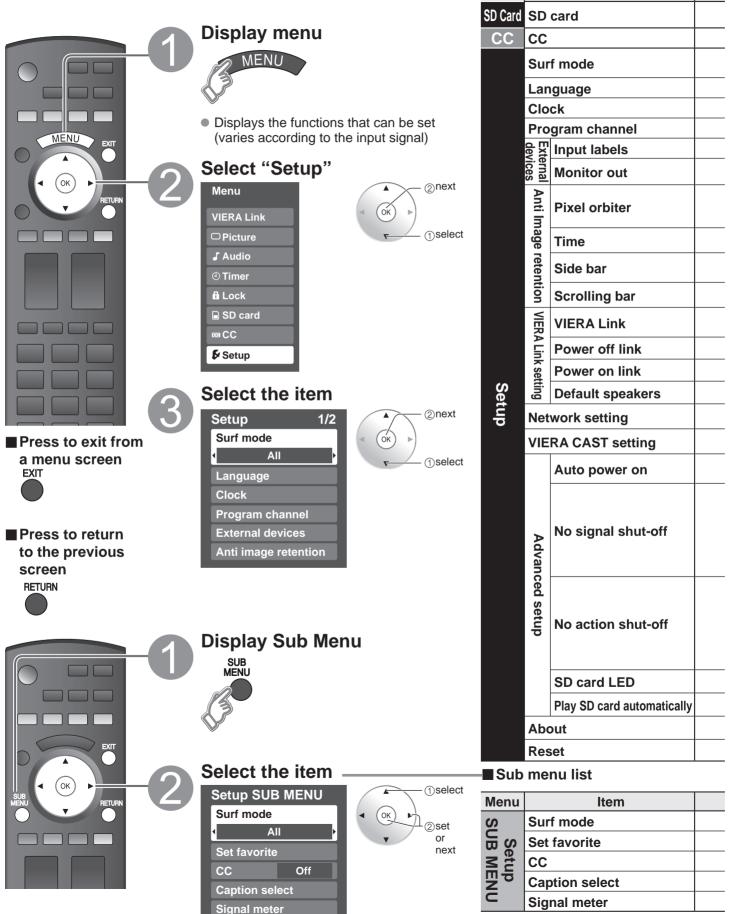
How to Use Menu Functions

Menu list

Item

Menu

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



(Continued)

Adjustments/Configurations (alternatives) [Photo viewer] To view the still picture. (p. 20)	
[Movie player] To view moving pictures recorded in MPEG 2 or AVCHD format. (p. 18)	SD card
Displays subtitles (Closed Caption) (p. 44)	CC
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) • Favorite: Only channels registered as FAVORITE (p. 17)	Surf mode A
Selects the screen menu language (p. 14)	Language
Adjusts the clock (p. 14)	Clock
Sets channels (p. 42)	Program channel
Selects the terminal and label of the external equipment (p. 45)	
[Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3/HDMI 4/Video 1/Video 2] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 45) (On/Off)	
 Prevents "Image retention" with Wobbling. (Automatic/Force) Automatic: Shifts the display image automatically. Force: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time" menu. 	Pixel orbiter Auto
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. 58)	Side bar Bri
Press "OK" to start "Scrolling" on the screen (p. 58)	Scrolling bar
Controls equipment connected to HDMI terminals (p. 32) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. 	VIERA Link 0
Sets "Power off link" of HDMI connection equipment (p. 32) (Set/No)	Power off link S
Sets "Power on link" of HDMI connection equipment (p. 32) (Set/No)	Power on link S
Selects the default speakers (p. 32) (TV/Theater)	Default speakers
Sets Network setting (p. 36)	Network setting
Sets VIERA CAST setting (p. 38)	VIERA CAST settin
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. 46)	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 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 front panel key continues for more than 3 hours. (No/Set) Note Not in use when setting "Auto power on" or "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 	No action shut-off N
Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	SD card LED
Set "On" to play back SD cards automatically. (Movie/Photo/Off/Select later)	Play SD card automatically Mo
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 42)	Reset

Adjustments/Configurations (alternatives)

Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only)

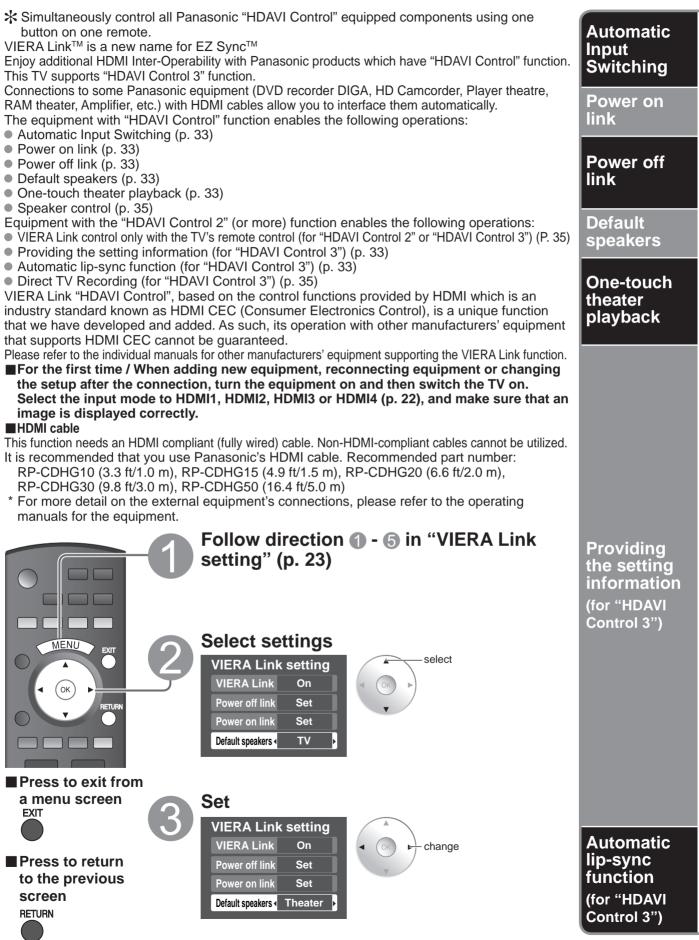
Sets favorite channels. (p. 17)

Displays Closed Caption. (p. 44) (Off/On)

Changes the station identifier. (p. 43)

Checks the signal strength if interference or freezing occurs on a digital image. (p. 43)

VIERA Link[™] "HDAVI Control[™]"*



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

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

When "Set" is selected (p. 30), 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. 30) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode.

Caution: The TV remains on even if the VIERA Link compatible equipment is turned off.

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

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

① Home Theater power switches On, and playback begins.

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

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

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

Transm	Recorder	Home theater	Player	
① On Screen Displ (English/Españo	0	0	0	
② Panel Aspect Ratio (16:9 fixed)		0	0	0
	mode	0		
③ Closed caption information	CC type	0		
	Digital setting	0		
	Input signal	0		
(4) Channel information	Channel list	0		
	Caption information	0		

Note

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

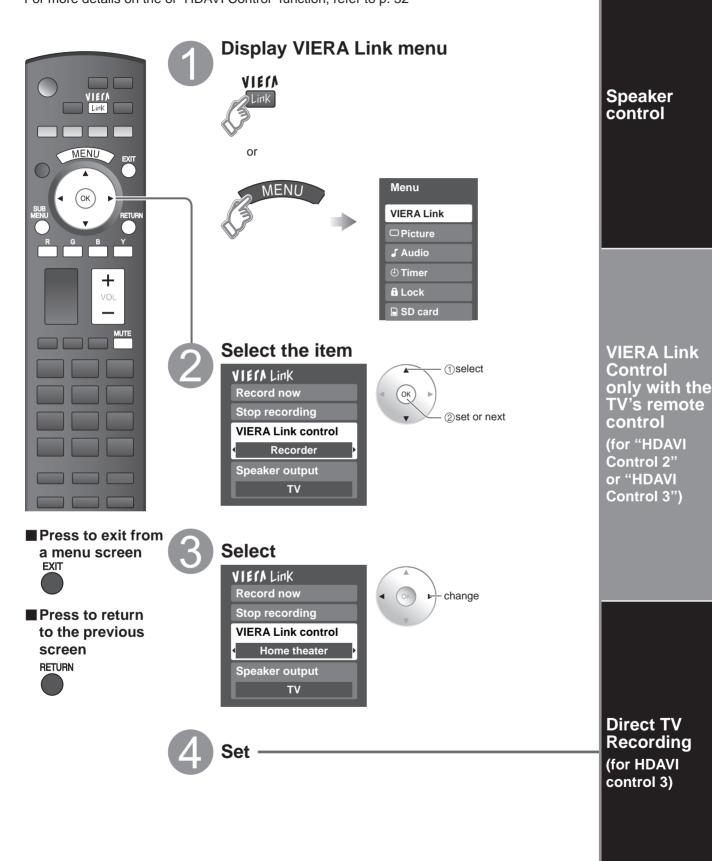
[For Recorder]

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

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

VIERA Link[™] "HDAVI Control[™]"

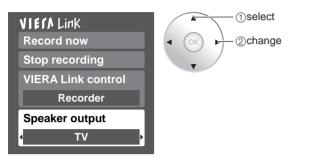
You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu. For more details on the of "HDAVI Control" function, refer to p. 32



You can select Home theater or TV speakers for audio output. Control theater speakers with the TV's remote control.

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

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



Home theater: Adjustment for equipment

Volume up / down 🔶



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

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

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



() select () ↓ ②change

You can select available items only.

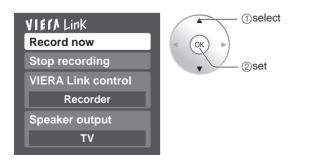
Available TV's remote control buttons

	Move the cursor/Select		
ОК	Set/Access		
RETURN	Return to the previous menu		
	Display the Functions menu on the equipment		
	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.

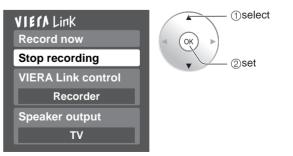
Records the current program on the recorder immediately.

①Select "Record now"



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

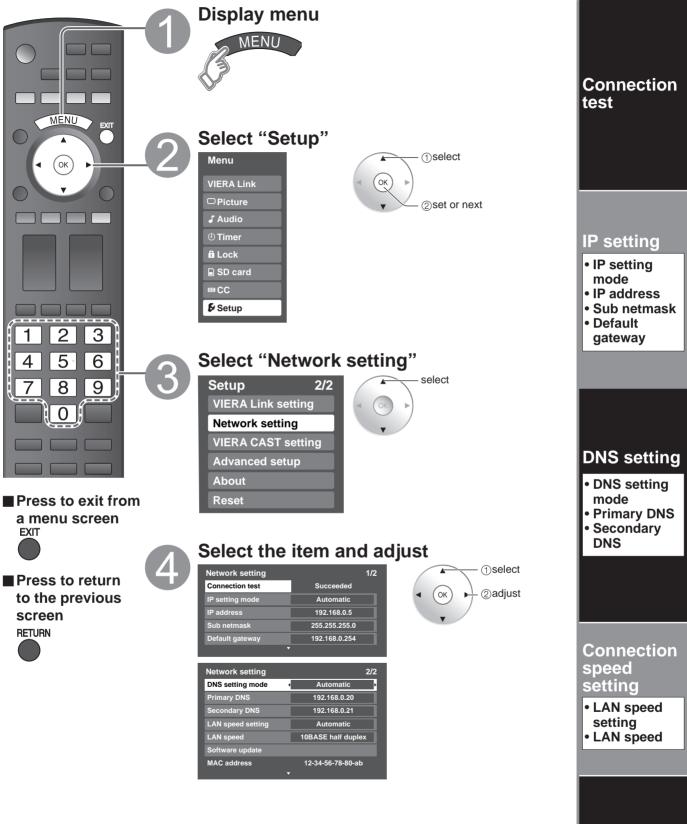
②Select "Stop recording", when you want to stop recording



Recording will not stop automatically when the program is finished.

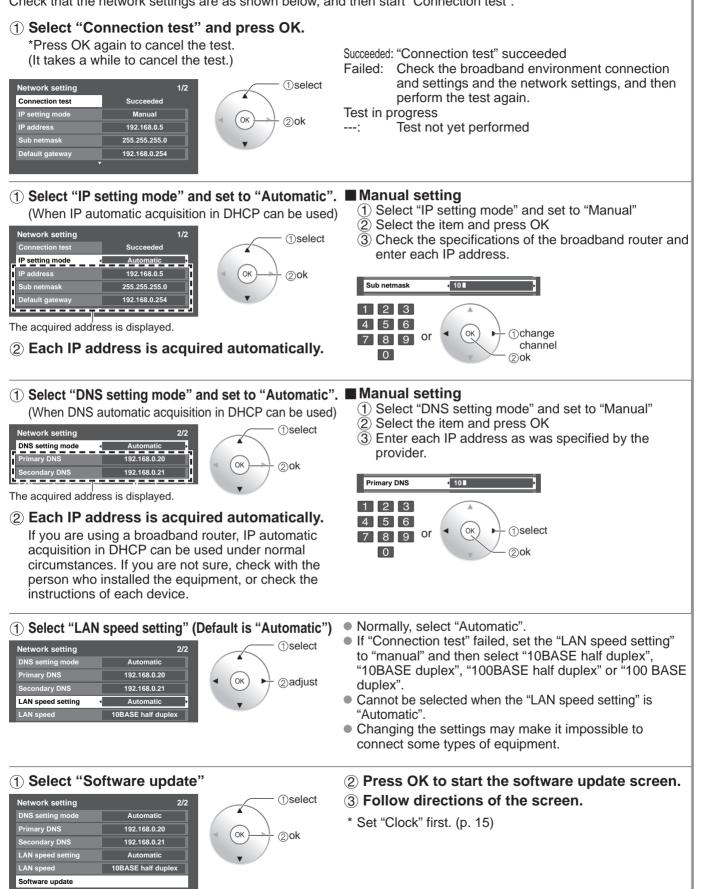
Network Setting

This is a setting for connecting to a broadband environment.



Software update

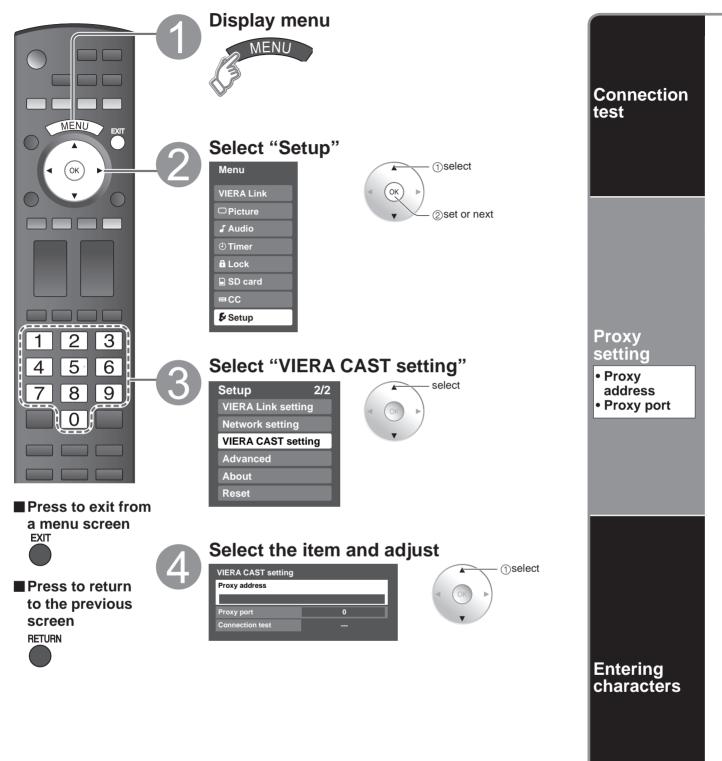
Check that the network settings are as shown below, and then start "Connection test".



The network settings become effective when you close the menu and run "Connection test".

Network Setting

VIERA CAST[™] Setting



1 Select "Connection test" and Press OK



 When a connection is made to the connection test site and a message is displayed that indicates a successful connection

➡ The settings are correct.

When the connection is not successful
 An error message is displayed on the screen.

* Check the connection and settings. (p. 36-37, below)

If you perform the proxy settings, check the proxy address and the proxy port number.

Set only if specified by the provider.

It is not required for normal household use.

Proxy address

This is the address of the relay server that is connected to the target server instead of the browser and sends data to the browser.

Setting is only required if specified by the provider.

(1) Select "Proxy address" and Press OK

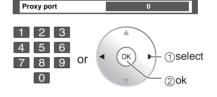


2) Enter address (see "Entering characters" below) Proxy address pr 0

Proxy port

This number is specified by the provider together with the proxy address.

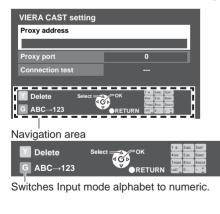
Select "Proxy port" and Press OK. Enter the Port number.



If you perform the proxy settings, it may make it impossible to view VIERA CAST movie content.

③ Select "OK"

You can use the remote control key to enter the alphanumeric characters.



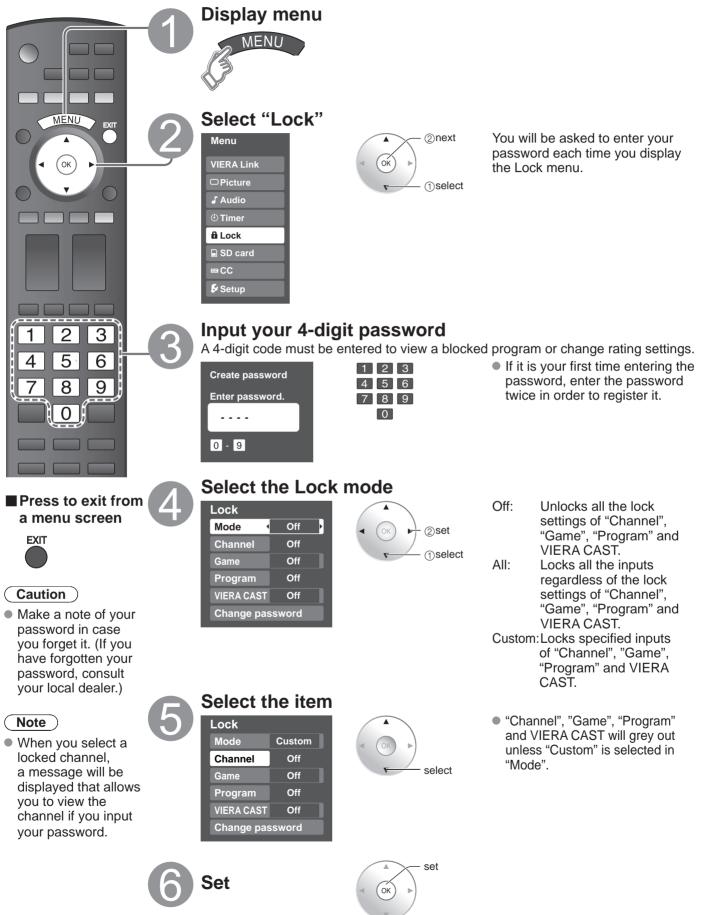
Characters are displayed as shown in following table.

	A							В					
					Num	ber c	of pre	sses					
	1	2	3	4	5	6	7	8	9	10	11	12	
1	@		/	:	~		1						1
2	а	b	с	А	В	С	2						2
3	d	е	f										3
4	g	h	i										4
5	j	k	Ι										5
6	m	n	0										6
7	р	q	r	s									7
8	t	u	v										8
9	w	х	у	z									9
0	-	,	;	,	"	?	!	()	&	¥	0	0
LAST						Spa	ace						*
-							ace						#

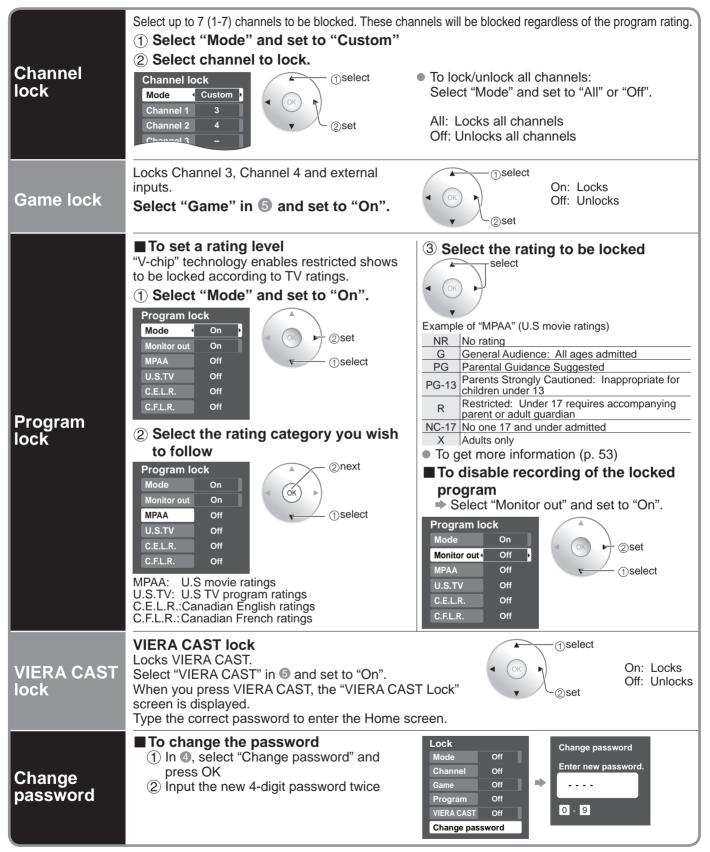
• VIERA CAST setting will be effective when you close the menu or run "Connection test".

Lock

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



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

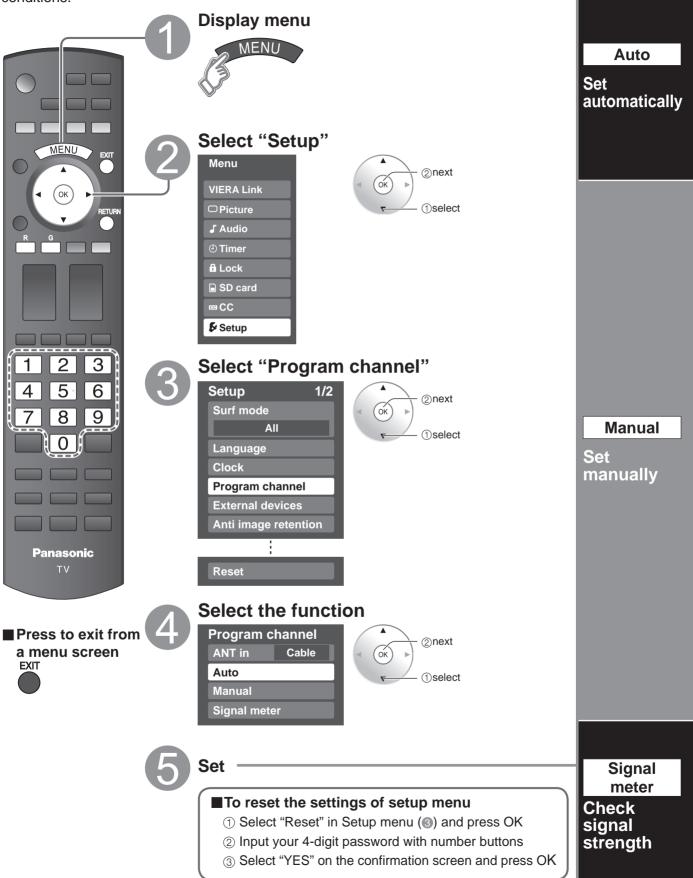


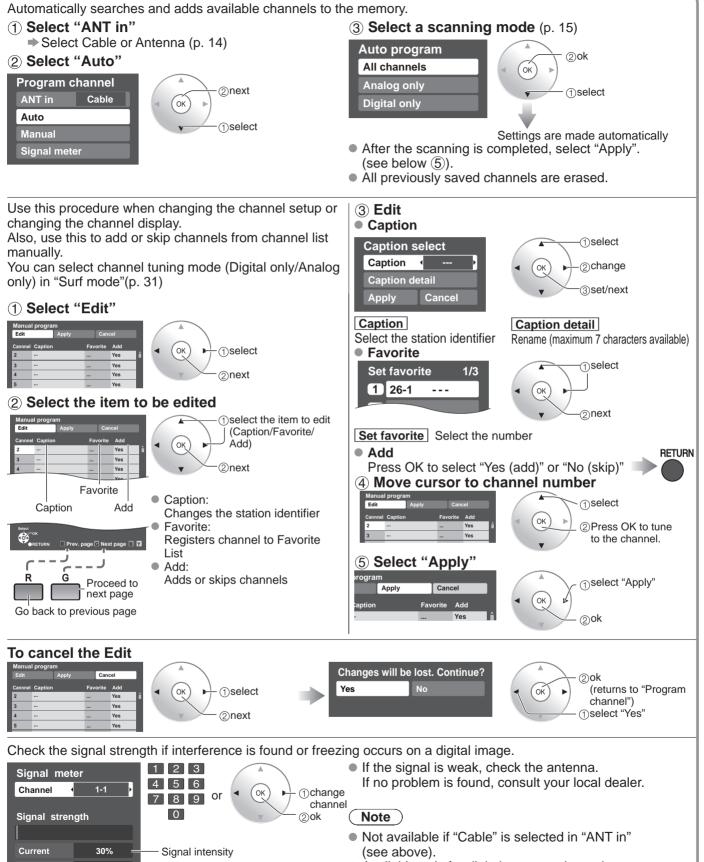
Note

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

Editing and Setting Channels

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





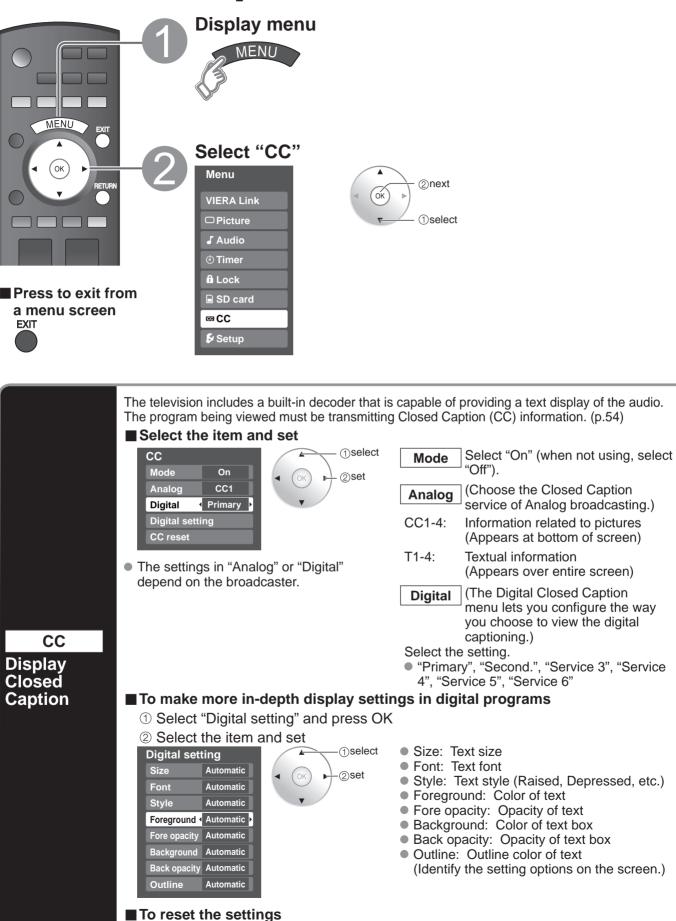
45%

Peak level

Editing and Setting Channels

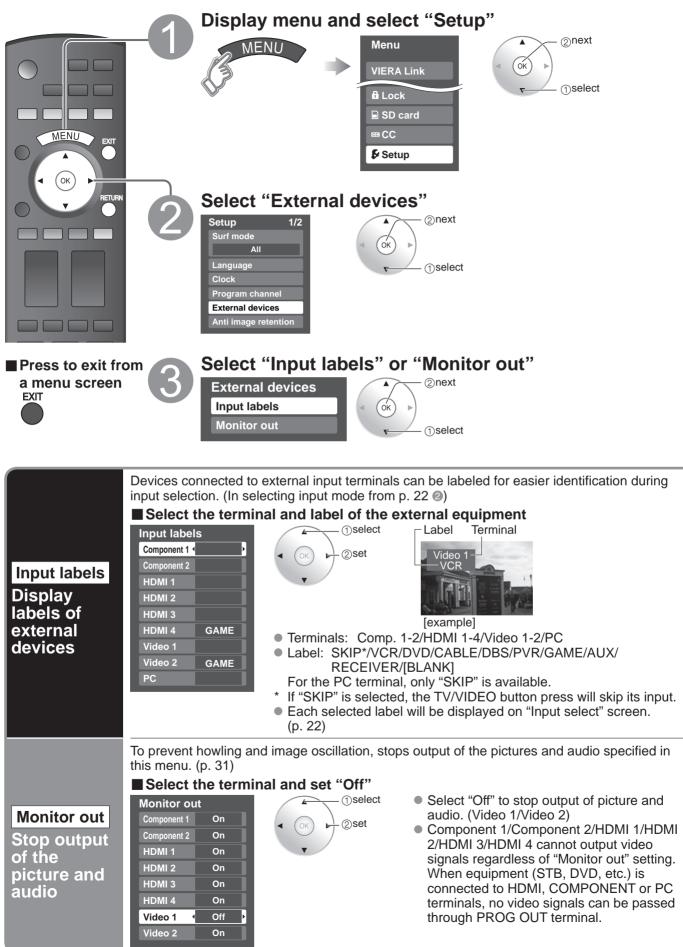
Advanced

Closed Caption



Select "CC reset" and press OK

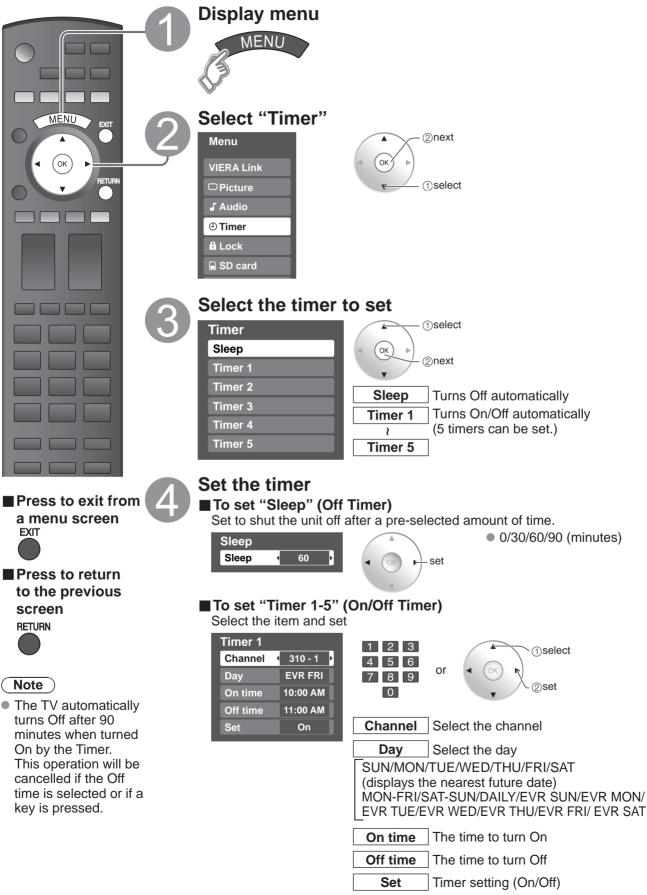
Input Labels/Monitor Out



Using Timer

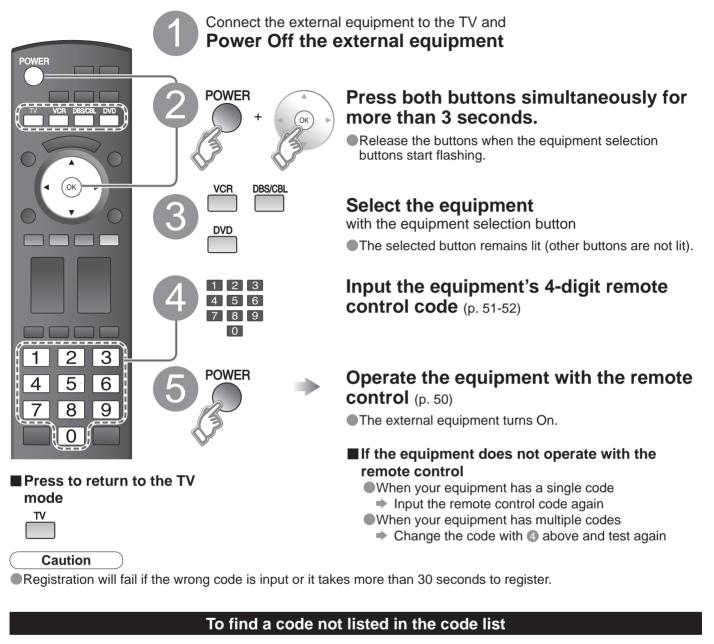
The TV can automatically turn On/Off at the designated date and time.

- The Clock must be set before On time/Off time settings. (p. 15)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 31) is set.



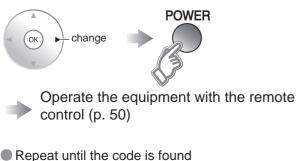
Programming the Remote to Operate Peripheral Equipment

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



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

After step
 above, change the code and test



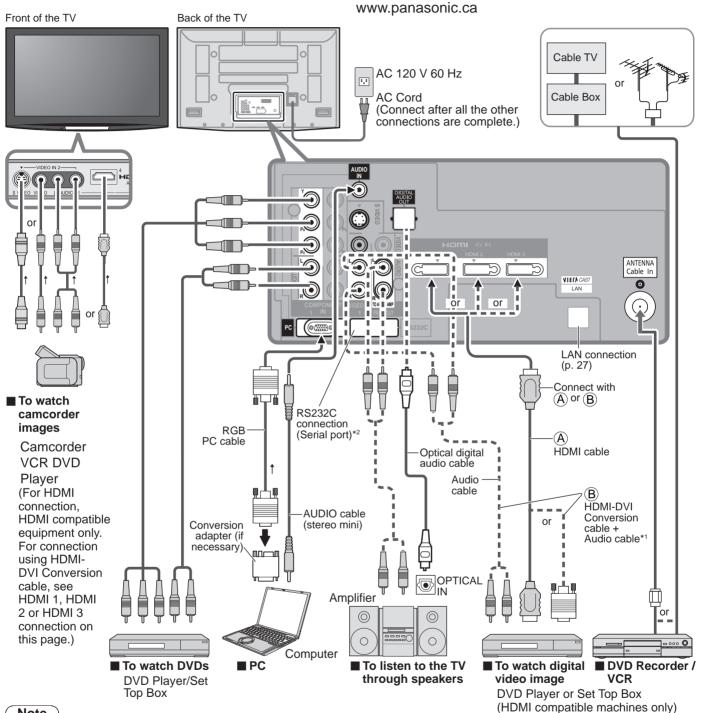
Repeat until the code is found
 It may take many attempts before the correct code is found

(2) When the correct code is found



Recommended AV Connections

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



Note

- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 45) 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. 30, 45)
- 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.
- *1 Please see p. 28-29 for setup when using an external analog audio cable with an HDMI to DVI cable.
- *2 For details about the RS232C command, contact Customer Care. (p.63, 64) Note that we only provide information in accordance with our disclosure rules.
 - See "RS232C terminal Specification" sheet. (attached separately)

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 32-35 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

Note

HDMI 1 is recommended.

When connecting to HDMI 2/HDMI 3/HDMI 4, set the input mode to HDMI 2/HDMI 3/HDMI 4 (p. 22) initially before connecting to HDMI 2/HDMI 3/HDMI 4. After connection, confirm the HDMI control functions (p. 32-35).

playback operate.

- Connecting this unit to the DVD recorder (DIGA), RAM theater, or Player theater
- For DVD recorder (DIGA): Connect with HDMI cable
- For RAM theater and Player theater:
 - Connect with the HDMI and audio cables. If audio cable is not connected, you cannot listen to the TV program through the theater system.

Connecting this unit to a DVD recorder (DIGA) and AV amp

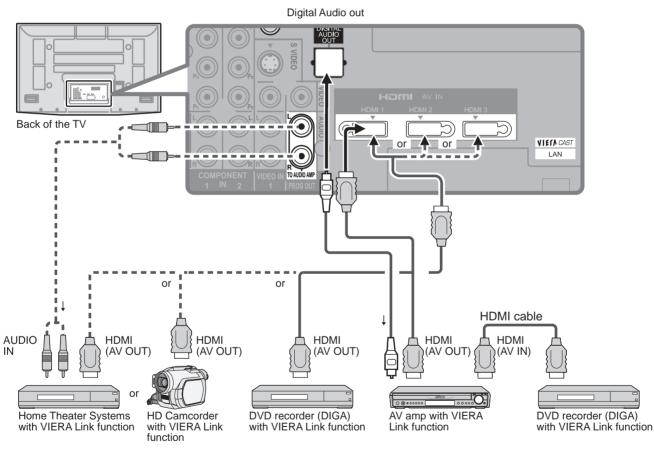
If connection (or setting) of equipment compatible with HDAVI

can correctly recognize the connected equipment) and check

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

control is changed, switch the power of this unit Off and On again while the power of all equipment is On (so that the unit

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.

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

Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 23, 30-31).

Note

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

Remote Control Operation/Code List

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

• Register the remote control codes (p. 47) if you want to operate an external device from another manufacturer. (p. 51-52)

Note

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

■ Remote Control Operation List

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

		DBS/CE	DVD MODE		
KEY NAME	VCR MODE	(DBS)	(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	
< OK +	-	Select	Select	Enter	
	_	Guide	Guide	Sub Menu	
RETURN	-	PPV/VOD	PPV/VOD	Return	
R	-	Red	A	Red	
G	-	Green	В	Green	
B	-	Blue	С	Blue	
<u> </u>	-	Yellow	D	Yellow	
∧ он ∨	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down	
+ vol -	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	
FORMAT	-	Aspect	Aspect	_	
FAVORITE	-	Favorite	Favorite	Direct Navigator	
INFO	Onscreen Display	Info	Info/Display/OSD	Onscreen Display	
MUTE	TV Mute	TV Mute	TV Mute	TV Mute	
0 - 9	0-9	0-9	0-9	0-9	
LAST	-	Last Channel	Last Channel	Drive Select	
-	-	Sub Channel	Music	PROG (Sub Channel)	
	-	Page Down/Up	Page Down/Up	Skip Reverse/Forward	
TV/VCR GAME	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	-	
	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward	
REC	VCR Record	PVR Record *1	PVR Record *1	Record	
STOP	Stop	Stop	Stop	Stop	
PAUSE	Pause	Pause	Pause	Pause	
PLAY	Play	Play	Play	Play	

Remote Control Code List

	verter (C) (🚺)						
Brand BC	Code	Brand	Code	Brand	Code	Brand	Code
DB	0003, 0007, 0008 2092	Hytex i3 Micro	0007	Philips Pioneer	0317, 1305 0144, 0533, 0877, 1877	Supercable Supermax	0276 0883
nericast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Pulsar	0000	Thomson	1256
nino	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012.0059
II South	0899	Motorola	0276, 0476, 0810, 1106, 1187,	RadioShack	0883	Torx	0003
armaster	0883		1254, 1376, 1951	RCA	0021, 1256	Toshiba	0000
arMax	0883	MTS	1951	Regal	0273, 0279	Tristar	0883
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ector	0476	Optimus	0021	Sejin	1602	Vision	0883
neral Instrument	0003, 0276, 0476, 0810	Pace	0008, 0237, 1877	Sony	1006	Vortex View	0883
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haStar	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
ExpressVu	0775, 1170	General Instrument	0869	Memorex	0724	Samsung	1108, 1109, 1276, 1377, 1442, 1
iparral	0216	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
lsat	1806	Goodmans	1246	Motorola	0869	Sony	0639, 1639, 1640
ssdigital	1109	Hisense	1535	NEC	1270	Star Choice	0869
cTV	0099, 0247, 0392, 0566, 0639, 0724,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
	0749, 0819, 1076, 1108, 1109, 1142, 1189, 1377, 1392, 1414, 1442, 1443,	HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1189, 1786	Toshiba	0749, 0790, 1285, 1749
	1444, 1609, 1639, 1640, 1749, 1856	Hughes Network	0749, 1142, 1442, 1443, 1444, 1749	Pansat	1807	UltimateTV	1392, 1640
		Systems		Paysat	0724	Ultrasat	1806
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tive Works	2167	Jensen	0041	Philco	0035	Tatung	0041
ver	0081	JVC	0008, 0041, 0067, 2079	Philips	0035, 0081, 0110, 0618, 0739,	Teac	0000, 0041
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eVision zen zen ig ig dis Mathes ernex erPower woo K woo K woo K woo kor voo bon bon bon kor trobonic arech trobome trophonic arex	1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613 0739 0038, 0039 0037 0037 0037 0037 0037, 1278, 1278, 0209, 0212, 0278, 0274, 0278, 0274, 0278, 0274, 0278, 0274, 0278, 0274, 1278, 0	KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnasonic Magnavox Magnin Marantz Marta Marta Mata Mata Center PC MEI	0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0053, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0035, 0081 0037 0035, 0037 0035, 0037, 0039, 0046, 0047, 1972 10055, 0037, 0039, 0046, 0047, 1000, 0035, 0037, 0039, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0046, 0047, 0047, 0047, 004	Polk Audio Presidian Profitronic Proscan Protec Putsar Quarter Quartz Quasar RadioShack Radix Randex RCA	0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0033 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0037 0037 0037 0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047,	Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Vector Research Video Concepts Videosonic Videosonic Vilain Voodoo Wards	0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0027, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 1972 0000 1972 0000, 0035, 0042, 0047, 0048, 4
9Vision g g Mathes ernex erPower woo (on ensia cTV abrand atech ttrohome ttrophonic erex	1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 00440, 0050 1972 0042 2613 0739 0038, 0039 00300 0037 0032 0032 0032 0032 0032 0032 0032 0032 0032 0033 0034 0035 037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0038 00739 <t< td=""><td>KLH Kodak LG Linksys Logik Logik LXI Magnasonic Magnavox Marta Marta Matsushita Media Center PC MEI Mernorex MGA</td><td>0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0033, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 0035, 0162, 1162 1972 0035, 0037, 0039, 0046, 0047, 0035, 0037, 0039, 0046, 0047, 0048, 0140, 0152, 0229, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262</td><td>Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz RadioShack Radix Randex RCA Realistic ReplayTV</td><td>0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0033 0046 0046 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0042, 0060, 0077, 0105, 0106, 0149, 0022, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047, 0044, 0104 0614, 0616 1972</td><td>Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videosonic Videosonic Videosonic Vilain Voodoo Wards White Westinghouse XR-1000</td><td>0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0040, 0045, 0061 0037 0240 1972 0000 1972 0000 1972 0000 0035, 0042, 0047, 0048, 0072, 0031, 0149, 0212, 0240 0072, 0209, 0637</td></t<>	KLH Kodak LG Linksys Logik Logik LXI Magnasonic Magnavox Marta Marta Matsushita Media Center PC MEI Mernorex MGA	0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0033, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 0035, 0162, 1162 1972 0035, 0037, 0039, 0046, 0047, 0035, 0037, 0039, 0046, 0047, 0048, 0140, 0152, 0229, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262	Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz RadioShack Radix Randex RCA Realistic ReplayTV	0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0033 0046 0046 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0042, 0060, 0077, 0105, 0106, 0149, 0022, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047, 0044, 0104 0614, 0616 1972	Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videosonic Videosonic Videosonic Vilain Voodoo Wards White Westinghouse XR-1000	0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0040, 0045, 0061 0037 0240 1972 0000 1972 0000 1972 0000 0035, 0042, 0047, 0048, 0072, 0031, 0149, 0212, 0240 0072, 0209, 0637
eVision zen zen j ig is Mathes errex errex errev woo ć con errsia toron ersia toron abrand atech atroch trohome ctrophonic erex errex errex	1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0046, 0278, 0561, 0637, 1137, 1278 0042 2613 0739 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 0037 037 037 037 037 037 037 037 037 037 038 039 0400, 0002, 0037, 0043, 0061, 0068, 0121, 0278, 0479, 0561, 0563, 0537, 1278, 1479, 1593	KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnin Martia Matsushita Media Center PC MEI Memorex MGA MGN Technology	0035, 0037 1037, 1137, 2010 11972 0000, 0208 0072 0037 00533, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 0035, 0081 0037 0035, 0162, 1162 11972 10035 0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0307, 0348, 0104, 0162, 0209, 0240, 0307, 0348, 0104, 0162, 0209, 0240, 0307, 0348, 0061, 0240 0240,	Polk Audio Presidian Profitronic Profitronic Protec Pulsar Quarter Quarter Quarter RadioShack Radix Radix Radix Radex RCA Realistic ReplayTV Ricavision Ricoh	0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0033 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0037 0037 0037 0037 0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047, 0048, 0104 0614, 0616 1972 0034	Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Vector Research VideoConcepts Videoconcepts Videosonic Villain Voodoo Wards White Westinghouse XR-1000 Yamaha	0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0024, 0024, 0024, 1972, 1988, 1996 0037, 0240 1972 0040 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 1972 0000 1972 0000 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 0072, 0209, 0637 0000, 0035, 0072 0038
9Vision g g Mathes ernex erPower woo (on ensia cTV abrand atech ttrohome ttrophonic erex	1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613 0739 0038, 0039 0000 0037 0037 0332 11, 0184, 0208, 0209, 0212, 0278, 0449, 0561, 0583, 0637, 1278, 1479, 1593 1137	KLH Kodak LG Linksys Logik Logik LXI Magnasonic Magnavox Marta Marta Matsushita Media Center PC MEI Mernorex MGA	0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0533, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0001 0037 0035, 0162, 1162 1972 0035, 0037, 0039, 0046, 0047, 0048, 0144, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240	Polk Audio Presidian Profitronic Profitronic Proscan Protec Pulsar Quarter Quarter Quartz Quasar RadioShack Radix Randex RCA Realistic ReplayTV Ricavision Ricoh Rio	0067, 1337 0081 1593 0240 0260, 0202, 0761, 1060 0072 0039 0046 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0037 0037 0037 0042, 0260, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047, 0044, 0104 0614, 0616 1972 0034 1137	Tivo TMK Toshiba Totevision Totevision Touch Unitech Unitech Videotor Vector Videoconcepts Videoconic Videoconic Videoconic Villain Voodoo Wards White Westinghouse XR-1000 Yamaha Zenith	0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0021, 0045, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000, 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 0072, 0209, 0637 0000, 0035, 0072 0038 0000, 0035, 0072 0038 0000, 0033, 0034, 0039, 0209, 0637, 1137, 1139, 1479
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Vision g g ernex ernex errex on c c on c c o o o o o o o o o o o o o	1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613 0739 0038, 0039 0000 0037 0037 0332 11, 0184, 0208, 0209, 0212, 0278, 0449, 0561, 0583, 0637, 1278, 1479, 1593 1137	KLH Kodak LG Linksys Logik LXI Magnasonic Magnin Marantz Matsushita Media Center PC MEI Memorex MGA MCN Technology Microsoft	0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0053, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0040, 0035, 0037, 0038, 0041, 0140, 0149, 00563, 0053, 1053, 1533, 1781 0035, 00162, 1162 11972 0035 0000, 0035, 0037, 0038, 0046, 0047, 0048, 0104, 0162, 0229, 0240, 0047, 1027, 1162, 1237, 1262 0043, 0061, 0240 0240, 01240, 02	Polk Audio Presidian Profitronic Profitronic Proscan Protec Pulsar Quarter Quarter Quartz Quasar RadioShack Radix Randex RCA Realistic ReplayTV Ricavision Ricoh Rio	0067, 1337 0081 1593 0240 0260, 0202, 0761, 1060 0072 0039 0046 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0037 0037 0037 0042, 0260, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0035, 0037, 0046, 0047, 0044, 0104 0614, 0616 1972 0034 1137	Tivo TMK Toshiba Totevision Totevision Touch Unitech Unitech Victor Vector Vector VideoConcepts Videoconic Videoconic Vilain Voodoo Wards White Westinghouse XR-1000 Yamaha Zenith	0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0021, 0045, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 0040, 0045, 0061 0037 0240 1972 0000 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 0072, 0209, 0637 0000, 0035, 0072 0038 0000, 0033, 0034, 0039, 0209, (057, 1139, 1479)

Remote Control Operation/Code List (Continued)

Remote Control Code List

Brand	Combination (V) (Brand	Code	Brand	Code	Brand	Code
DirecTV	0739	Hughes Network	0739	Philips	0739	Tivo	0739
	1	Systems		Samsung	0739		
DVD-Reco	order (V) (🛄)						
agnavox	0000						
PVR (V) (🕯							
BS	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
lienware	1972	Systems		Panasonic	0614, 0616, 1807, 1808, 1809	Tivo	0618, 0636, 0739, 1337
aptive Works yberPower	2167 1972	Humax Hush	0739, 1797, 1988	Philips Pioneer	0618, 0739	Toshiba Touch	1008, 1972, 1988, 1996 1972
lell	1972	iBUYPOWER	1972	RCA	0880	Viewsonic	1972
DirecTV	0739	LG	2010	ReplayTV	0614, 0616	Voodoo	1972
ateway	1972	Linksys	1972	Samsung	0739	ZT Group	1972
Bo Video	0614 1972	Media Center PC	1972	Sonic Blue	0614, 0616		
lewlett Packard loward Computers	1972	Microsoft Mind	1972	Sony Stack 9	0636, 1972		
IP .	1972	Niveus Media	1972	Systemax	1972		
DVD (Y) (1	DVD)						
ccurian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo	0698, 0752
dcom	1094	Enterprise	0591	Marantz	0539	Samsung	0199, 0490, 0573, 0820, 0899, 10
iwa	0641	ESA	1268	McIntosh	1273		1075, 1470
kai Ico	0695, 0770, 0899, 1089 0790	Fisher Funai	0670	Memorex Microsoft	0695, 0831, 1270 0522, 1708, 2083	Sansui	0695 0670, 0695, 0873
legro	0869	Gateway	0675, 1268, 1334 1073, 1077, 1158	Mintek	0522, 1708, 2083	Sanyo Sensory Science	1158
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MW	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833,	Momitsu	1082	Sharper Image	1117
pex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730	NAD	0692, 0741	Sherwood	0633, 0770, 1043, 1077
rrgo	1023	Go Vision	1072	Nakamichi NEC	1222 0785	Shinsonic Sigma Designs	0533, 0839 0674
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BK	1224	Hitachi	0573, 0664, 1247	Орро	0575, 1224 1525	Sungale	1074
el Canto Design	1571	Hiteker	0672	OptoMedia Electronics		SVA	0860, 1105
laupunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
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Broksonic CAVS	0695, 1419 1057	Initial	0717, 1472 1268, 2095		1907, 1908, 1909, 1910, 1925, 1986,	TAG McLaren Teac	0894 0790
Cinea	0831	Insignia Integra	0627		1990, 2017, 2060, 2061, 2062	Technics	0490, 0703
Cinego	1399	Jaton	1078	Philco	0675	Technosonic	0730
ineVision	0833, 0869, 0876	JBL	0702	Philips	0503, 0539, 0646, 0675, 1267, 1340,	Techwood	0692
itizen	0695, 1277, 1587, 2116	JSI	1423	Discourse	1354, 2056, 2084	Terapin	1031
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Craig	0831	jWin	1049, 1051, 1675	1 olaroid	1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 158
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aewoo	1234, 1242, 1441	Konka Koss	0711, 0721 0651, 0896, 1423	Princeton Proscan	0522	Venturer	0790
enon	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
esay	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
Diamond Vision	1316	Lenoxx	1127	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox	0522, 1708, 2083
Disney Dual	0675, 1270 1068, 1085	LG LiteOn	0591, 0741, 0869 1058, 1158, 1416, 1440, 1656	Rio	0869	Xwave Yamaha	1001 0490, 0497, 0539, 0545
Jurabrand	1127	LiteOn	0511	RJTech	1360	Zenith	0503, 0591, 0741, 0869
VD2000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
lectrohome	2116		1472, 1506	Rowa	0823		
DVD-Reco	order (Y) (📩)						
ccurian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432,
pex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340		1433, 1536
spire Digital	1168	Go Video	0741, 1158, 1304, 1730	Pioneer	0631	Sylvania	0675
roksonic itizen	1419 2116	iLo JVC	1348 1164, 1275	Polaroid RCA	1086, 2130 0522	Toshiba Zenith	1588 0741
oby	1086	LG	0741	Samsung	0490, 1470	Zennul	0/41
yberHome	1129, 1502	LiteOn	1158, 1416, 1440	Sensory Science	1158		
ectrohome	2116	Magnavox	0646, 0675, 1506	Sharp	0675		
	sc (Y) (📩)						
Blu-r <u>ay Di</u>		Philips	2084	Samsung	0199		
	0741			Sony	1516		
G	1641, 2061, 2062	Pioneer	0142	Oony			
G anasonic	1641, 2061, 2062	Pioneer	0142	oony			
G ^{lanasonic} HD-DVD ()	1641, 2061, 2062 Y) (^{DVD}) 0741		0142	RCA	1769	Toshiba	1769
G anasonic H D-DVD (` G	1641, 2061, 2062 Y) (^{DVD}) 0741	Pioneer Onkyo			1769	Toshiba	1769
G Tanasonic HD-DVD (N G HTiB (Y) (1641, 2061, 2062 () (^{DVD}) 0741 ^{DVD})	Onkyo	1769	RCA			
G anasonic H D-DVD (` G H TiB (Y) (iwa	1641, 2061, 2062 Y) (^{DVD}) 0741			RCA	1769 0869 1077	Toshiba Teac Toshiba	1769 0790 1854
Blu-ray Di G Vanasonic HD-DVD (Y G HTiB (Y) (Juwa Judiovox LH	1641, 2061, 2062 Y () 0741 0641	Onkyo	1769 0458, 1779, 1907, 1908, 1909, 1910,	RCA	0869	Teac	0790

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 41)

U.S. MOVIE RATINGS (MPAA)

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

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

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

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

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

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

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

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

Caution

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

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

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

FAQs, etc.

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.

0

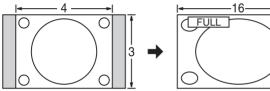
 If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

Aspect Ratio (FORMAT)

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

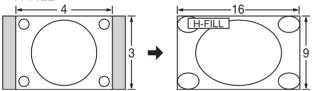
(e.g.: in case of 4:3 image)

FULL



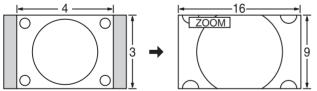
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

• H-FILL



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

ZOOM



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

Zoom adjust

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

① Select "Zoom adjust" on the "Picture" menu. (p. 28-29)

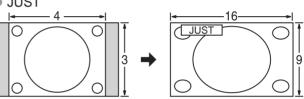
(OK)

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



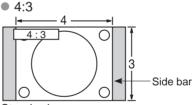
To reset the aspect ratio





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

(Recommended for normal TV broadcast)



Standard

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

Note

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

Data format for	SD Ca	ard bro	wsing
-----------------	-------	---------	-------

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
Movie:	SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with an audio format that is either MPEG-1/Layer-2 format or Dolby Digital format (A modified data with a PC may not be displayed correctly.)
Nata	* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard ** EXIF (Exchangeable Image File Format)

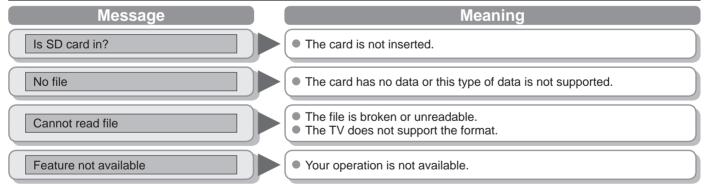
(Note)

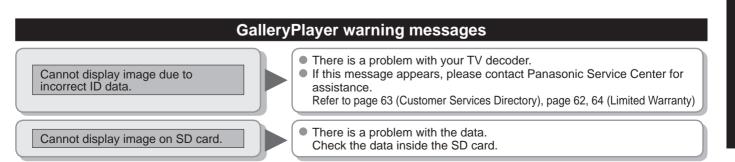
- Format the card with the recording equipment.
- The picture may not appear correctly on this TV depending on the recording equipment used.
- Display may take some time when there are many files and folders.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- Data modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF 2.0, 2.1 and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- All ".JPG" extension datas in the card will be read in Photo View Mode.
- The folder and file names may be different depending on the digital camera used.
- Do not use two-byte characters or other special codes.
- The card may become unusable with this TV if file or folder names are changed.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.co.jp/pavc/global/cs (This site is in English only)

Cautions in handling SD Card:

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

SD Card warning messages





FAQs, etc.

Technical Information (Continued)

VIERA Link[™] "HDAVI Control[™]"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 32)
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link™ is available for the terminal with the smaller number.
- If you connect equipment that has more than "HDAVI Control 2" (or more) function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for the HDAVI Control compatible equipment. This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in", "HDMI 3 in" or "HDMI 4" menu screen. (p. 28) 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.
- When playing movie on SD Card Movie player, when the sound has been recorded in Dolby Digital, the output from the DIGITAL AUDIO OUT terminal will be Dolby Digital. When the sound is recorded in the other formats, the output will be PCM. See pages 48-49 for more information

Picture mode

- Provides enhanced picture contrast and sharpness for viewing in a well-lit room. Vivid:
- Standard: Recommended for normal viewing conditions with subdued room lighting.
- Provides high-quality gradation and color tone picture for a cinema-like feel. Studio ref:
- For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 45) Game: Custom (Photo): Customizes each item according to your taste.
- - Photo is displayed in JPEG mode.

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.

	Pro setting
Normal:	Resets all Pro setting adjustments to factory default settings. (Set/No)
Panel brightness:	Selects the display panel brightness.
	(High: Vivid, Mid: Standard, Low: Studio ref)
• Contour emphasis:	Adjusts the contour emphasis of the image. (On/Off)
Gamma adjust:	Gamma correction. Adjusts the intermediate brightness of the image. (Normal/Mid/Full 1/Full 2)
	Adjusts the dark shades of the image in gradation.
	Adjusts the white balance for light red areas.
W/B high B:	Adjusts the white balance for light blue areas.
W/B low R:	Adjusts the white balance for dark red areas.
W/B low B:	Adjusts the white balance for dark blue areas.
AGC:	Increases the brightness of dark signal automatically. (On/Off)
W/B low B:	Adjusts the white balance for dark blue areas.

Input signal that can be displayed

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

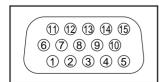
	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
_525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 x 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 x 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00			*

Note

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

PC Input Terminals Connection

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



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

Technical Information

Pin Layout for PC Input Terminal

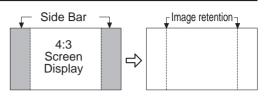
Technical Information (Continued)

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 30-31 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 horizontal bar from top to bottom 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 30-31 for more information



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

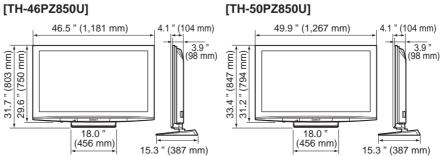
Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth. Do not use products such as solvents, thinner, or household wax for cleaning, as they can 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-46PZ850U	TH-50PZ850U		
Power Source		AC 120 V, 60 Hz			
Powe Cons	Maximum	638 W	700 W		
Power Consumption	Standby condition	0.2 W	0.2 W		
	Drive method	AC type			
Plasma Display panel	Aspect Ratio	16:9			
	Visible screen size	46 " class (46.0 inches measured diagonally)	50 " class (49.9 inches measured diagonally)		
	(W × H × Diagonal)	40.1 " × 22.5 " × 46.0 " (1,019 mm × 573 mm × 1,169 mm)	43.5 " x 24.4 " x 49.9 " (1,106 mm x 622 mm x 1,269 mm)		
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]			
Sound	Audio Output	Super Slim SP (2.5 W) × 2, Woofer (13 W) × 2			
PC signals		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz			
Channel Capability (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135			
Operating Conditions		Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)			
Co	VIDEO IN 1-2	AUDIO L-R: RCA PIN Type x 2 0.5 V [rm	[p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω) s]		
	COMPONENT INPUT 1-2	Y: 1.0 V [p-p] (including synchronization) PB, Pr: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]			
nnec	HDMI 1-4	TYPE A Connector × 4 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			
	RS232C (Serial)	D-sub 9pin for external control			
inals	LAN (for VIERA CAST IPTV)	RJ45 (10BASE-T/100BASE-TX)			
	Card slot	SD CARD slot × 1			
	AV PROG OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]			
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic			
FEATURES		3D Y/C FILTER CLOSED CAPTION IPTV (VIERA CAST) V-Chip BBE VIVA 3D Photo viewer Movie player HDAVI Control 3			
Dimer (W×I	Including pedestal	46.5 " × 31.7 " × 15.3 " (1,181 mm × 803 mm × 387 mm)	49.9 " × 33.4 " × 15.3 " (1,267 mm × 847 mm × 387 mm)		
Dimensions (W×H×D)	TV Set only	46.5 " × 29.6 " × 4.1 " (1,181 mm × 750 mm × 104 mm)	49.9 " x 31.2 " x 4.1 " (1,267 mm x 794 mm x 104 mm)		
	Including pedestal	92.6 lb. (42 kg)	99.3 lb. (45 kg)		
Mass	TV Set only	83.8 lb. (38 kg)	88.2 lb. (40 kg)		

[TH-46PZ850U]



Note

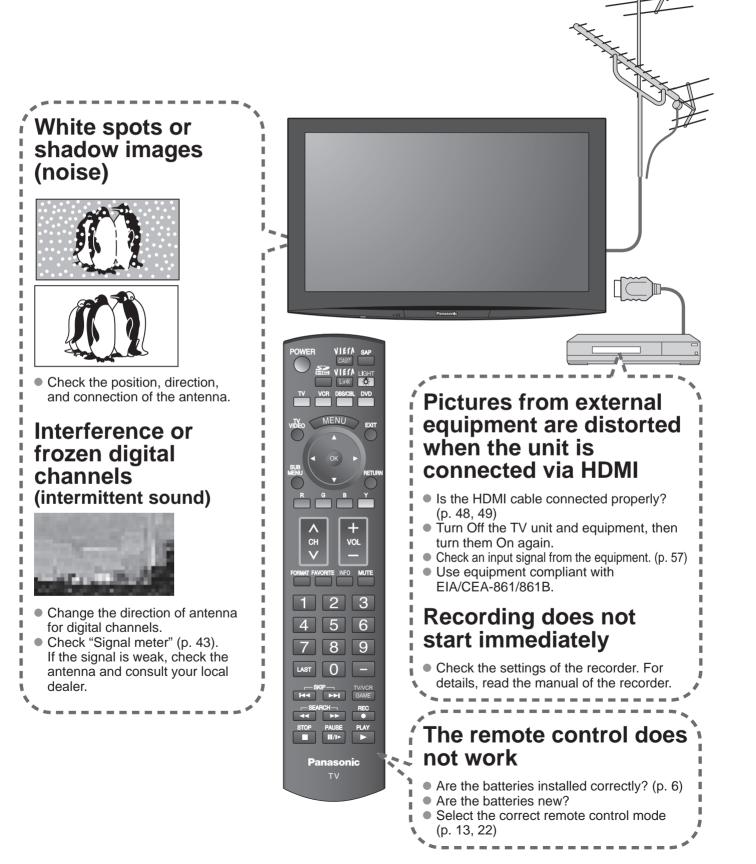
• Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

FAQs, etc.

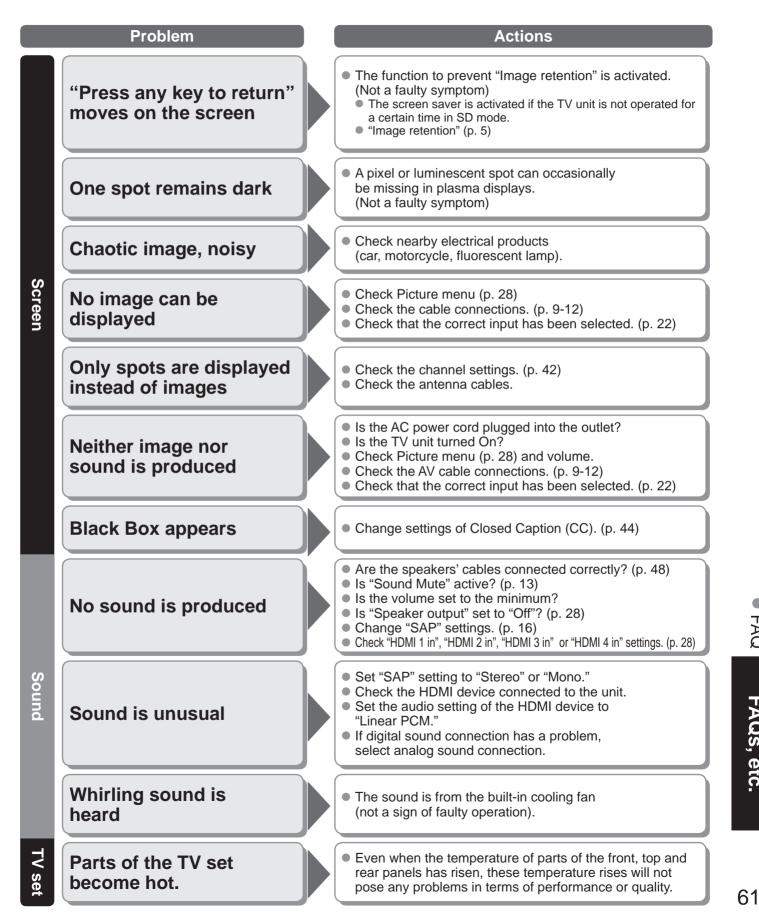
FAQ

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. 63, 64)

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



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



FAQ

Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

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

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

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

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

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

Customer Services Directory

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-877-95-VIERA (958-4372)

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at: 1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 9 pm, EST.) Panasonic Service and Technology Company 20421 84th Avenue South,

Kent, WA 98032

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

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

Service in Puerto Rico

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact: 1-800 #:

Our Customer Care Centre:

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

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

Email link:

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

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FAQs, etc.

Limited Warranty (for Canada)

Customer's Record

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

Model Number

Serial Number

Anotación del cliente

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

Modelo

Número de serie

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A. Panasonic Puerto Rico, Inc. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985 Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario L4W 2T3 CANADA

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