

Operating Instructions

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

(41.6/46.0/49.9 inches measured diagonally)

Manual de instrucciones

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

Model No. TH-42PZ80U TH-46PZ80U **TH-50PZ80U**



Quick Start Guide

(See page 6-15)

Guía de inicio rápido

(vea la página 6-15)

For assistance (U.S.A.), please call: 1-888-VIEW-PTV (843-9788) or visit us at www.panasonic.com/contactinfo

- For assistance (Puerto Rico), please call:
- 787-750-4300 or visit us at www.panasonic.com
- For assistance (Canada), please call: 1-866-330-0014 or visit us at www.vieraconcierge.ca
- Para solicitar ayuda (EE.UU.), llame al: 1-888-VIEW-PTV (843-9788) ó visítenos en www.panasonic.com/contactinfo
- Para solicitar ayuda (Puerto Rico), llame al: 787-750-4300 ó visítenos en www.panasonic.com











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

Español

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

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





SDHC Logo is a trademark.



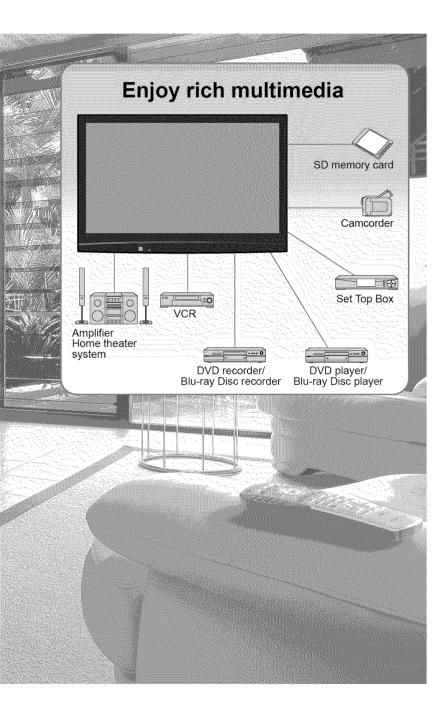
GalleryPlayer and the GalleryPlayer Logo are trademarks of GalleryPlayer, Inc.

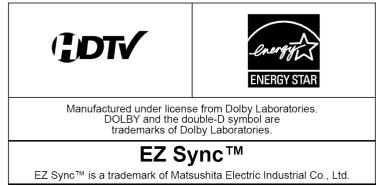
HDAVI Control™

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

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

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





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Safety Precautions





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

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

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

CAUTION

DO NOT OPEN

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

Important Safety Instructions

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

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



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the 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 an Other 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 Panasonic Service Center or an experienced radio/TV technician for help.

FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to 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.

Responsible Party:	Panasonic Corporation of North America One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company 1-888-VIEW-PTV (843-9788)
email:	consumerproducts@panasonic.com

CANADIAN NOTICE:

For Model TH-42PZ80U, TH-46PZ80U, TH-50PZ80U This Class B digital apparatus complies with Canadian ICES-003.

Small parts can present choking hazard if accidentally swallowed.

Keep small parts away from young children.

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

Set up

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

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

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

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

Matsushita Electric Industrial Co., Ltd.)

- Wall-hanging bracket (Vertical) TY-WK42PV3U, TY-WK42PV4W
- Wall-hanging bracket (Angled) TY-WK42PR3U

TY-WK42PR4V	N

Always be sure to ask a qualified technician to carry out set-up.

Two or more people are required to install and remove the television. If two people are not present, the television may be dropped, and personal injury may result.

Transport only in upright position!

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

■ AC Power Supply Cord

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

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

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

Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

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

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

If problems occur during use

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

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

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

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



Do not cover the ventilation holes.

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

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

■ When using the Plasma TV

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

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

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

Clean the power cable regularly to prevent it from becoming dusty.

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

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

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

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

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

Notes

■ Do not display a still picture for a long time

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

Typical still images

Channel number and other logos

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

Computer image

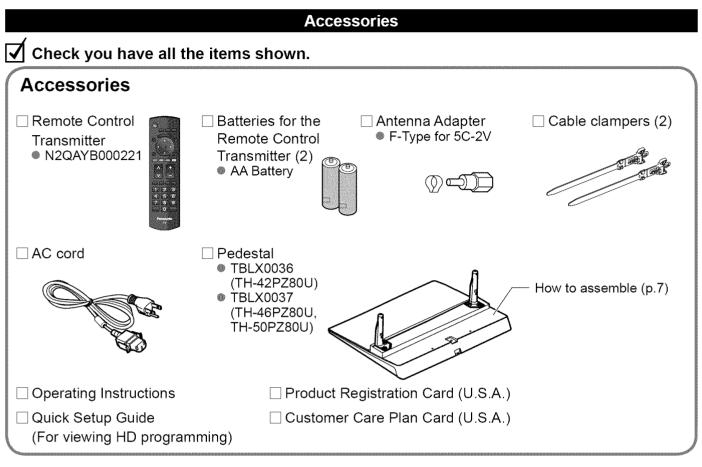


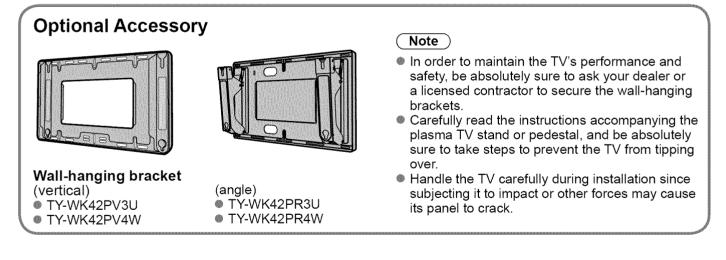
To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 45)

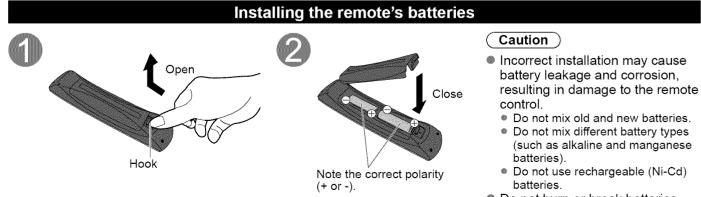
Set up

- 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





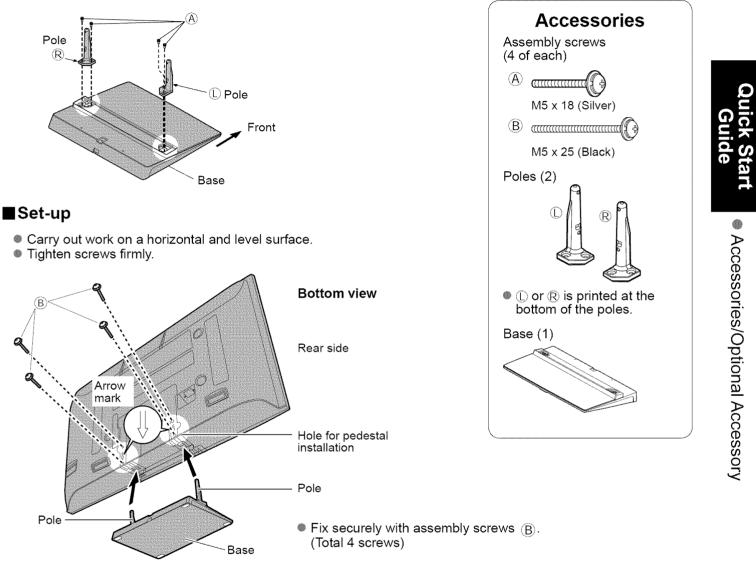


Do not burn or break batteries.

Attaching the pedestal to TV

Assembling the pedestal

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



Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

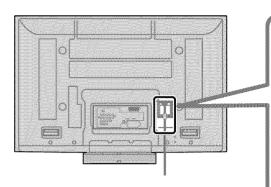
Do not use the pedestal if it becomes warped or physically damaged.

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

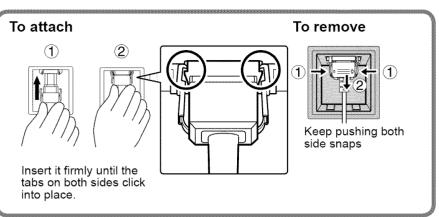
During set-up, make sure that all screws are securely tightened.

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

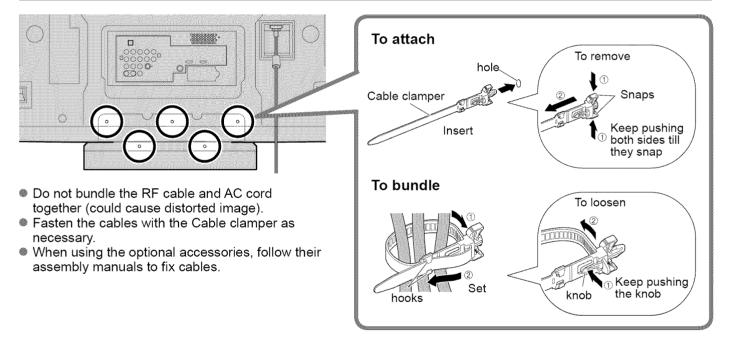
Accessories/Optional Accessory (Continued)

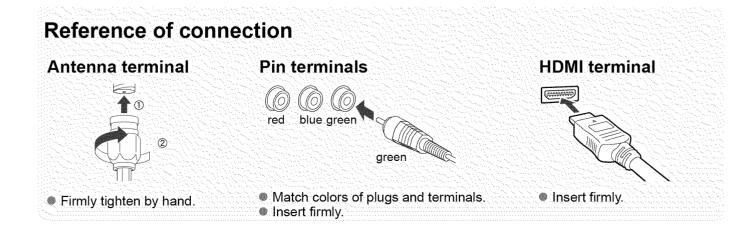


AC cord connection



Cable Binding Instructions



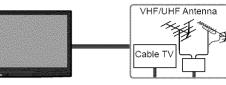


Basic Connection

Example 1

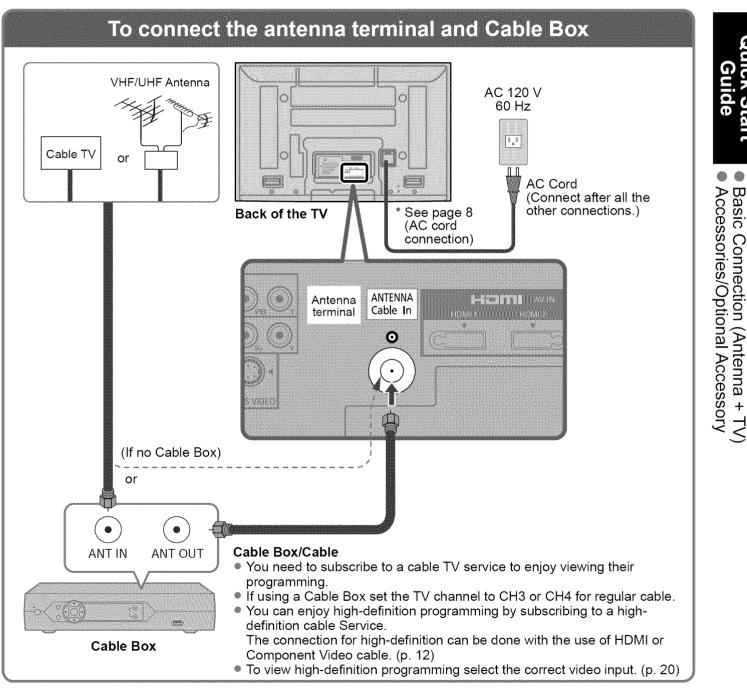
Connecting Antenna (To watch TV)

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 (Continued)

Example 2

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

ΤV

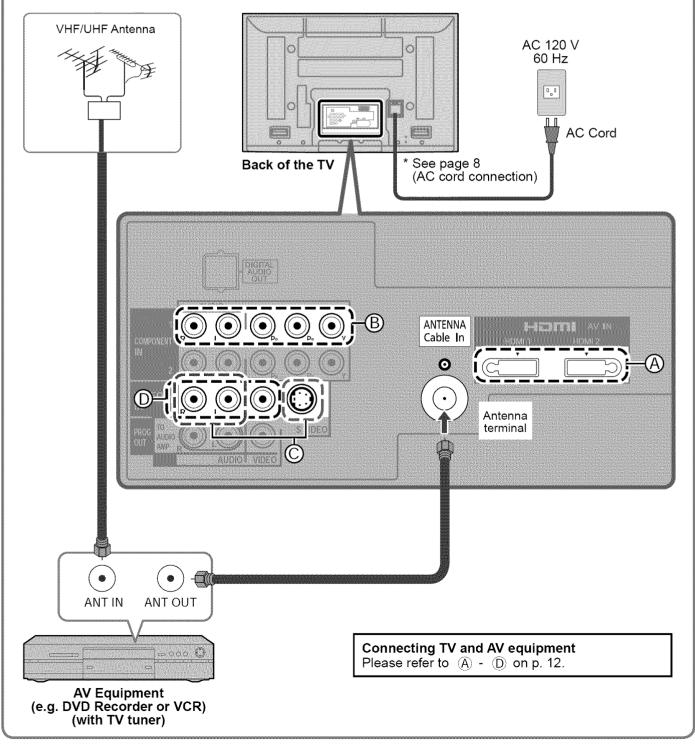


DVD Recorder

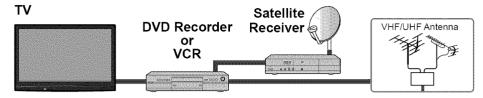
If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable. (p. 12) VCR

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

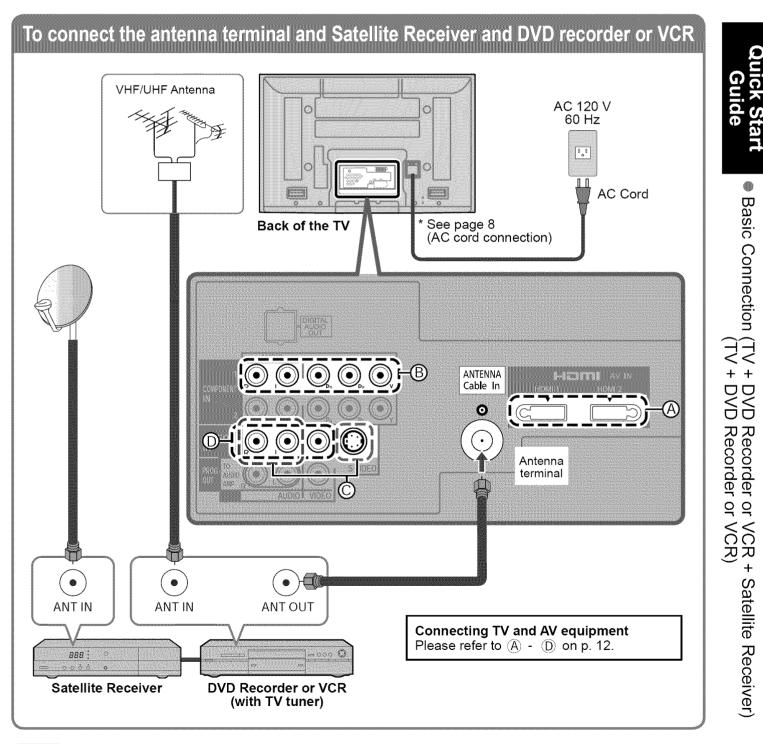
To connect the antenna terminal and DVD recorder or VCR



Example 3 Connecting DVD recorder (VCR) and satellite receiver



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



Note

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

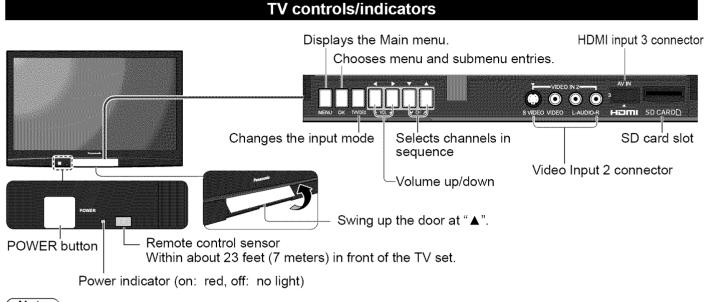
Basic Connection (Continued)

AV cable connections **A** To use HDMI terminals HOM AV IN AV Equipment HDMI 2 HDMI $\Box c$ AV OUT e.g. DVD Recorder Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound. **High-Definition** ● For "VIERA Link[™] connections", please refer to p. 38. **(B)** To use COMPONENT terminals ۲ 11 white white white AUDIO OUT R \bigcirc 1 red COMPONEN red red AV Equipment لل **f**---green () 1 green VIDEO green e.q. DVD Recorder Рв COMPONENT ۲ VIDEO OUT blue blue blue ۲ red red red Recorders may also be connected to COMPOSITE or S VIDEO terminals. (see below) © To use S VIDEO terminals S VIDEO VIDEO **AV Equipment** OUT N e.g. DVD Recorder Standard-Definition ۳ ا or white white white AUDIO R OUT) e.g. VCR red red red (D) To use COMPOSITE terminals **AV Equipment** VIDEO (@)) e.g. DVD Recorder vellow vellow vellow COMPOSITE (\bullet) or OUT white white white R ۲ e.g. VCR red red red The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable. Connecting to S VIDEO terminals will enable you to enjoy greater picture quality than using Composite terminals.

Note

- Some programs contain a copyright protection signal to prevent recording.
- When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the other TV monitor.
- For the details of the external equipment's connections, please refer to the operating manuals of this equipment.

Identifying Controls



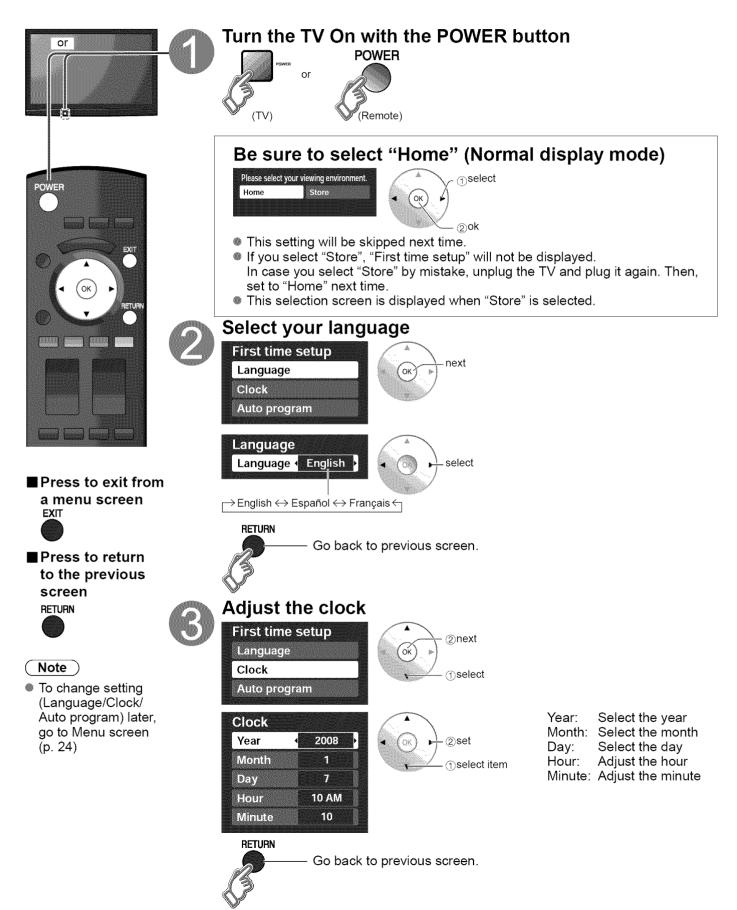
Note

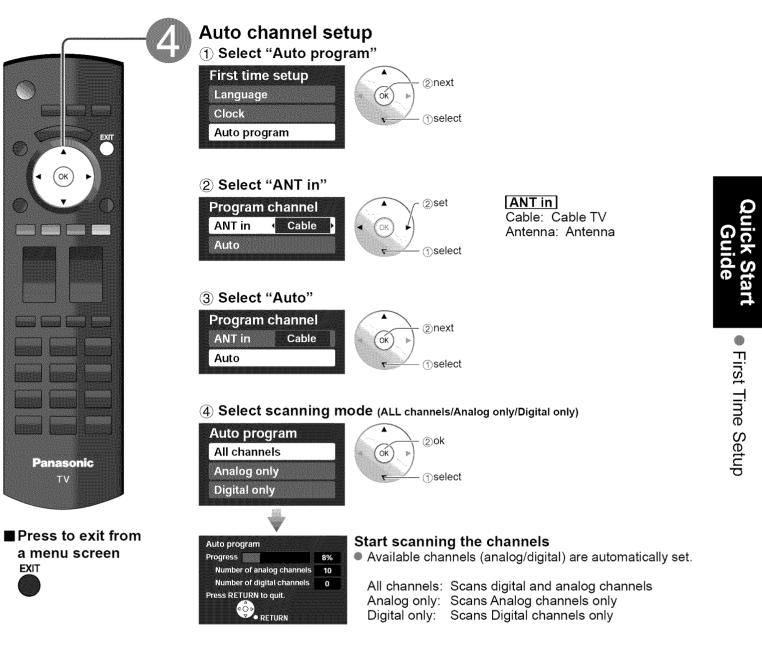
The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.

Remote control	
Viewing from SD card (p. 18)	———— VIERA Link menu (p. 28-29)
Displays Main Menu (p. 22)	Selects Audio Mode for TV viewing (p. 16) ——— Exits from menu screen
	Selects/OK/Change
Displays Sub Menu (p. 16, 24) Colored buttons (used for various functions) (for example p. 18, 28)	——— Returns to previous menu
(for example p. 18, 28) Channel up/down	Volume up/down Displays or removes the channel
Changes aspect ratio (p. 17)	banner (p. 16) Sound mute On/Off
Operates the Favorite channel list function. (p. 17)	Numeric keypad to select any channel (p. 16) or press to enter alphanumeric input in menus. (p. 20, 30, 32)
Switches to previously viewed channel	——— Direct channel access for DTV and DBS (p. 16)

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. 24-25) is set to "No".





(5) Confirm registered channels



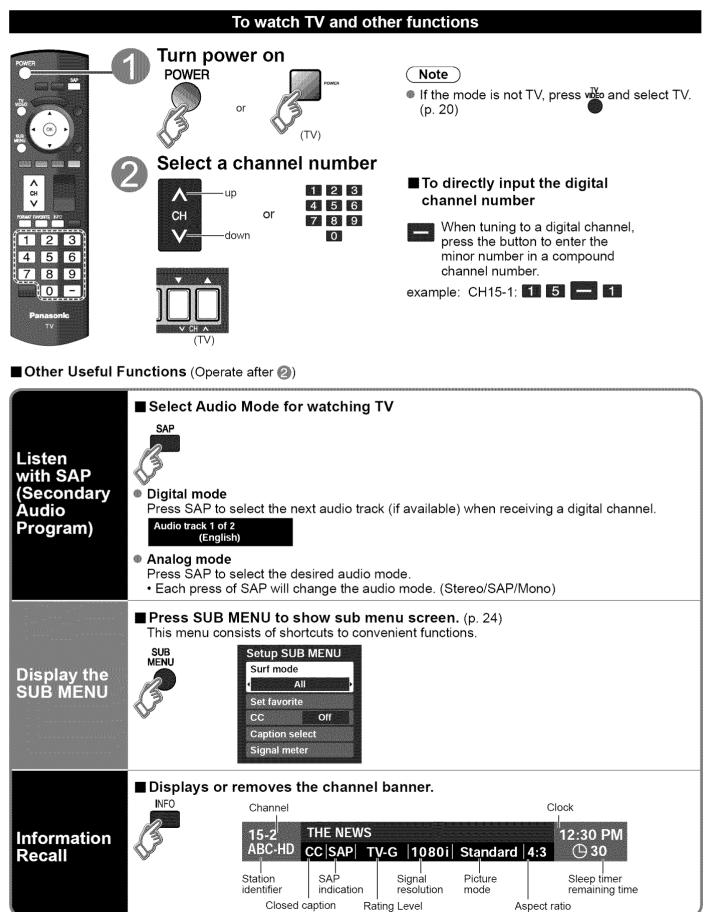
- If OK is not pressed after selecting "Apply", the channels will not be saved. The channel will be saved when no operation is performed for 60 seconds and the "Manual program" menu will also exit automatically.
- If you perform scanning more than twice, previously saved channels are erased.

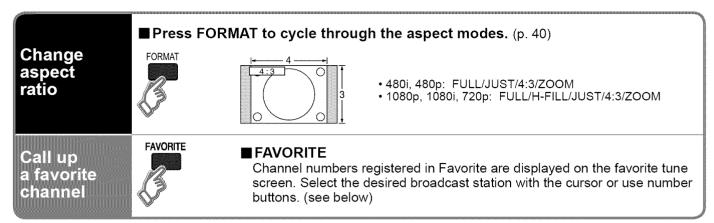
(Note)

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

Watching TV

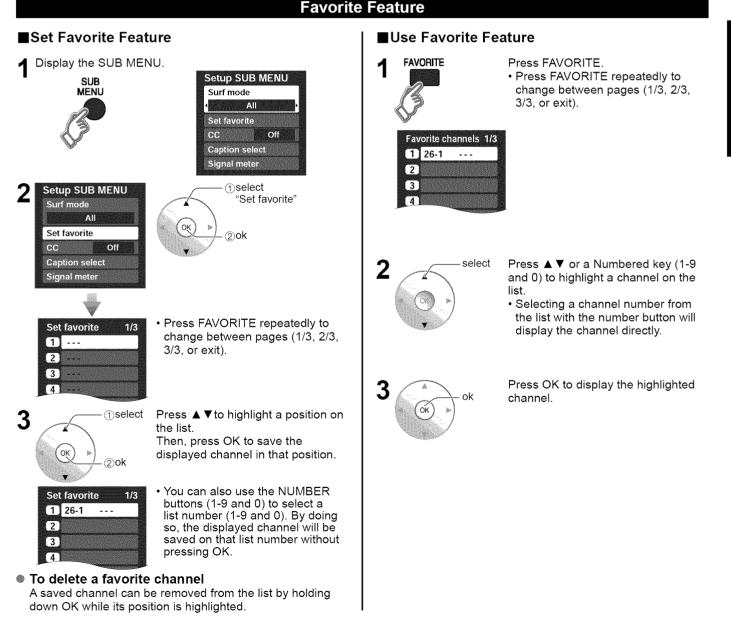
Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 9-12)





Note

- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 33)
- The channel number and volume level remain the same even after the TV is turned off.

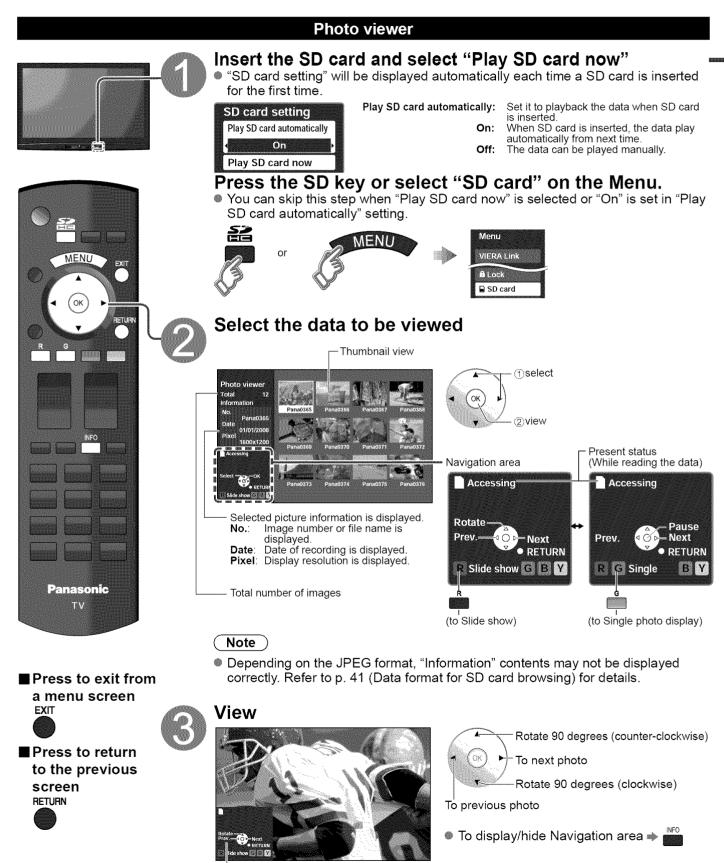


Viewing

Watching TV

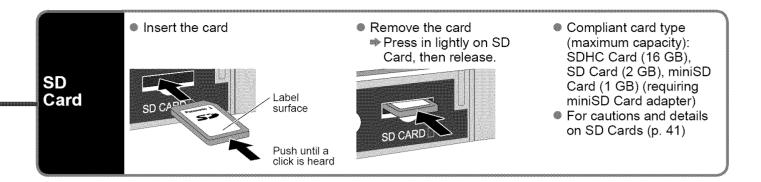
Viewing from SD Card

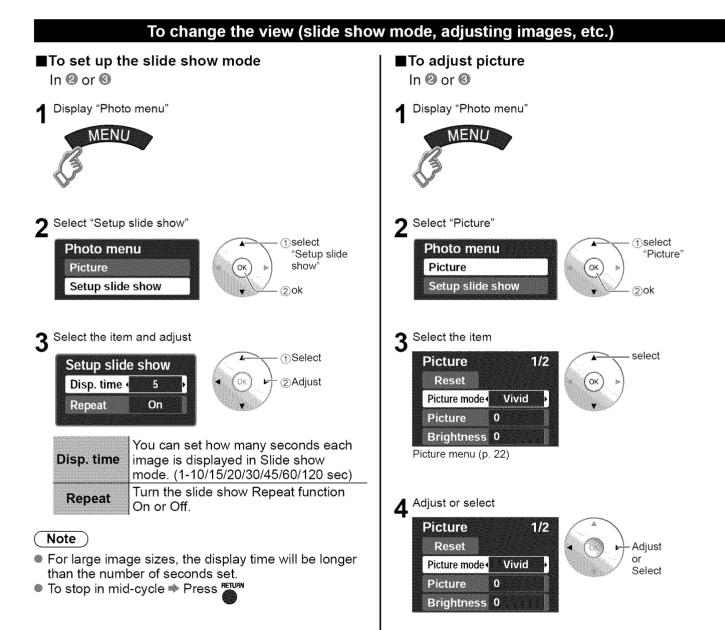
You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)



Displays one at a time

Navigation area



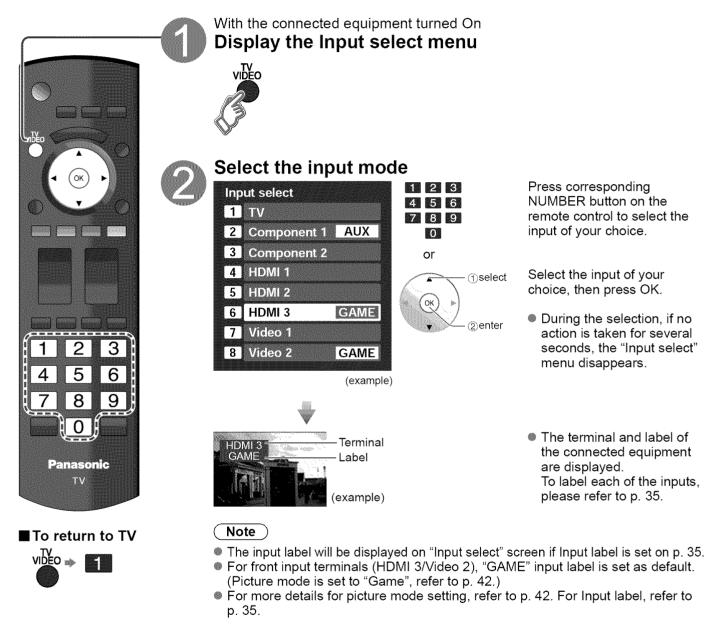


Watching Videos and DVDs

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

Input Select

You can select the external equipment to access.





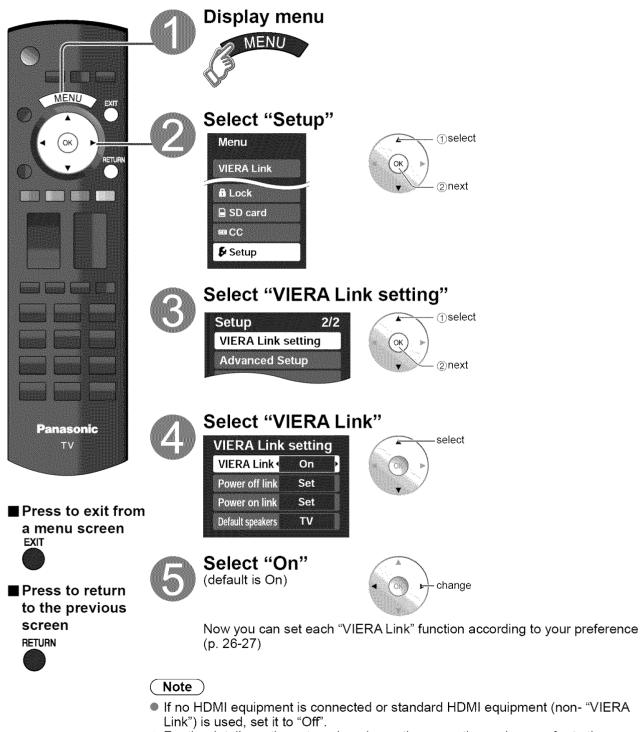
Operate the connected equipment using the remote control supplied with the equipment.

Note

For details, see the manual for the connected equipment.

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. 26-29. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



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

How to Use Menu Functions

Menu list

Item

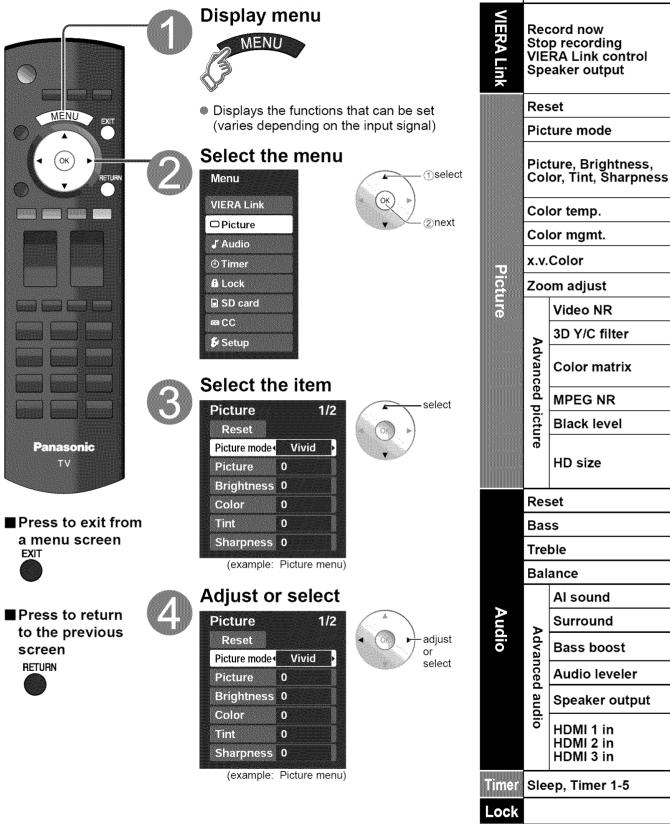
Menu

SD)

Card CC SD card

CC

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.

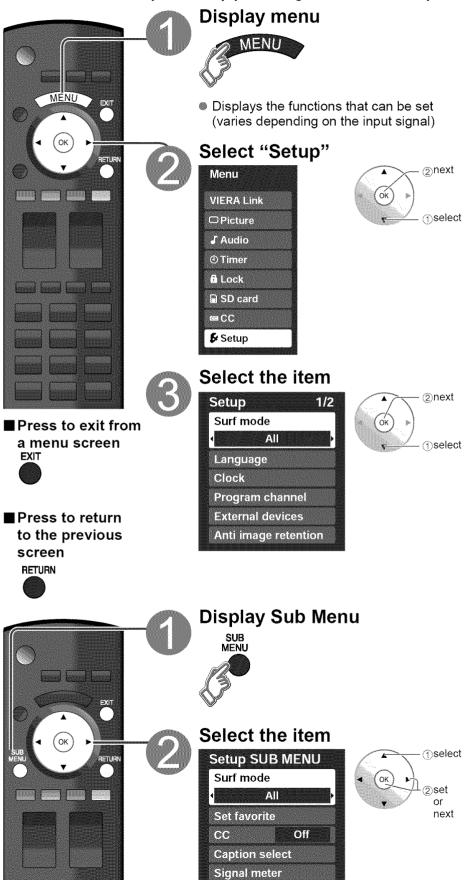


[Record now/Stop recording]	stments/Configurations (alter	rnatives)	
Records programs on the recorder immediate [VIERA Link control]	ly with the TV's remote control (p.	28-29).	
Selects equipment to access and operate. (R [Speaker output]	(m. 28.20)		
 VIERA Link menu is accessible directly by pres Resets all picture adjustments to factory defa 			Reset
Basic picture mode (Vivid/Standard/Cinema	<u> </u>		Picture mode Vivid
Adjusts color, brightness, etc. for each picture		Picture +20	Tint 0
Display range	0 - 100	Brightness 0	Sharpness 0
	-50 - +50	Color 0	
Selects a choice of Cool(blue), Normal, or Wa	rm(red) color. (Cool/Normal/Warr	n)	Color temp. Cool
On: Enhances green and blue color reproduc		•	Color mgmt. On
Auto: Provide the appropriate picture when ir or component input of this TV. (Off/Aut		' are input via the HDMI	x.v.Color Auto
Adjusts vertical alignment and size when aspe	ect setting is "ZOOM" (p. 40)		Zoom adjust
Reduces noise, commonly called snow. Leave	e it off when receiving a strong sigr	nal. (Off/On)	Video NR Off
Minimizes noise and cross-color in the picture	e. (On/Off)		3D Y/C filter On
Selects image resolution of component-conne SD: Standard Definition HD: High Def Only 480p signal accepted; regular TV (NT	nition		Color matrix SD
Reduces noise of specific digital signals of D	,		MPEG NR Off
Selects Dark or Light. Valid only for external in	nput signals. (Dark/Light)		Black level
Selects between 95 % (Size 1) or 100 % (Size 2) Select "Size 1" if noise is generated on the ec Size 1: Selected item for "HD size". Scanni Size 2: Selected item for "HD size". Scanni	lges of the screen. ng 95%	ion signal. (Size 1/ Size 2)	HD size Size1
Resets Bass, Treble and Balance adjustment	s 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
Environ Remain and an and a state of the sta	annels and external inputs. (On/Of	f)	Al sound
Equalizes overall volume levels across all cha		,	Soloookeerentiin
Equalizes overall volume levels across all cha Enhances audio response when listening to s	tereo. (On/Off)	·	Surround Off
·	sound. (On/Off)	,	
Enhances audio response when listening to s Enhances bass sound and provides powerful	sound. (On/Off) "Speaker output".	,	Surround Off
Enhances audio response when listening to s Enhances bass sound and provides powerful This setting will not function if "off" is set in	sound. (On/Off) "Speaker output". external inputs (On/Off)	, 	Surround Off Bass boost Off
Enhances audio response when listening to s Enhances bass sound and provides powerful This setting will not function if "off" is set in Minimizes volume disparity after switching to Switch to "Off" when using external speakers	sound. (On/Off) "Speaker output". external inputs (On/Off) do not work if "Off" is selected ection. (Digital input signal) connected. (Analog audio input si		Surround Off Bass boost Off Audio leveler 0
Enhances audio response when listening to s Enhances bass sound and provides powerful This setting will not function if "off" is set in Minimizes volume disparity after switching to Switch to "Off" when using external speakers "Al sound", "Surround", and "Audio leveler" The default setting is "Digital" for HDMI conne Select audio input terminal when DVI cable is	sound. (On/Off) "Speaker output". external inputs (On/Off) do not work if "Off" is selected ection. (Digital input signal) connected. (Analog audio input si 1/Video 2)		Surround Off Bass boost Off Audio leveler 0 Speaker output On HDMI1 in Digital HDMI2 in Digital
Enhances audio response when listening to s Enhances bass sound and provides powerful This setting will not function if "off" is set in Minimizes volume disparity after switching to Switch to "Off" when using external speakers "Al sound", "Surround", and "Audio leveler" The default setting is "Digital" for HDMI conner Select audio input terminal when DVI cable is (Digital/Component 1/Component 2/Video	sound. (On/Off) "Speaker output". external inputs (On/Off) do not work if "Off" is selected ection. (Digital input signal) connected. (Analog audio input si 1/Video 2)		Surround Off Bass boost Off Audio leveler 0 Speaker output On HDMI1 in Digital HDMI2 in Digital HDMI3 in Digital
Enhances audio response when listening to s Enhances bass sound and provides powerful This setting will not function if "off" is set in Minimizes volume disparity after switching to Switch to "Off" when using external speakers "Al sound", "Surround", and "Audio leveler" The default setting is "Digital" for HDMI conne Select audio input terminal when DVI cable is (Digital/Component 1/Component 2/Video The TV can automatically turn On/Off at the d	sound. (On/Off) "Speaker output". external inputs (On/Off) do not work if "Off" is selected ection. (Digital input signal) connected. (Analog audio input si 1/Video 2)		Surround Off Bass boost Off Audio leveler 0 Speaker output On HDMI1 in Digital HDMI2 in Digital HDMI3 in Digital

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

How to Use Menu Functions

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



∎ Menu list				
Menu	Item			
	Sur	f mode		
	Lan	iguage		
	Clo	ck		
	Pro	gram channel		
	Externa	Input labels		
	External devices	Monitor out		
	Anti image retention	Pixel orbiter		
	nage I	Time		
	etenti	Side bar		
		Scrolling bar		
S	VIERA Link setting	VIERA Link		
ietu	A Lin	Power off link		
q	k se	Power on link		
	tting	Default speakers		
		Auto power on		
	Advanced	No signal shut-off		
	d setup	No action shut-off		
		Play SD card automatically		
	Abo	out		
	Res			

Sub menu list

Menu	Item	
S	Surf mode	
Setu UB M	Set favorite	
Setup JB MEI	cc	
밀ᅙ	Caption select	
C	Signal meter	

(Continued)

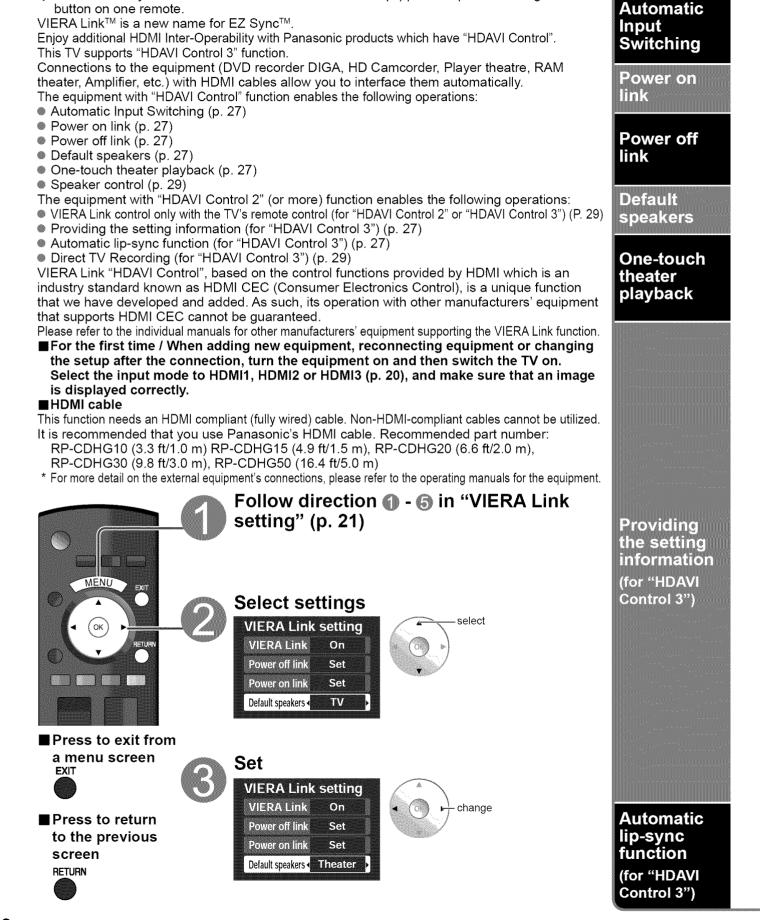
, Norman (1997) Norman (1997)	Adjustments/Configurations (alternatives)	
(AII/F	he mode to select the channel with Channel up/down button avorite/Digital Only/Analog only) /orite: Only channels registered as FAVORITE (p. 17)	Surf mode All
Selec	ts the screen menu language (p. 14)	Language
Adjus	ts the clock (p. 14)	Clock
Sets o	channels (p. 32)	Program channel
Selec	ts the terminal and label of the external equipment (p. 35)	
To pre	ponent 1/Component 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2] event howling and image oscillation, stops output of the pictures and audio specified in this menu. () (On/Off)	
	ents "Image retention" with Wobbling. (Automatic/Force) tomatic: Shifts the display image automatically. rce: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time" menu.	Pixel orbiter Auto
Sets t	the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time 4
	ge the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 mode only) e recommended setting is "Bright" to prevent panel "Image retention". (p. 43)	Side bar Bright
Press	"OK" to start horizantal "Scrolling" on the screen (p. 43)	Scrolling bar
	ols equipment connected to HDMI terminals (p. 26) (On/Off) ower off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	VIERA Link On
Sets '	Power off link" of HDMI connection equipment (p. 26) (Set/No)	Power off link Set
Sets '	Power on link" of HDMI connection equipment (p. 26) (Set/No)	Power on link Set
Selec	ts the default speakers (p. 26) (TV/Theater)	Default speakers
The	TV On automatically when the cable box or a connected device is turned On (No/Set) e "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. 36)	Auto power on No
for mo Note ● No	nserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed bre than 10 minutes. (Set/No) t in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel. b signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for	No signal shut-off Set
the The	first time after turning the power off by "No signal shut-off". e on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	
contir Note No "No the	nserve energy, the TV automatically turns off when no operation of remote or front panel key nues for more than 3 hours. (No/Set) t in use when setting "Auto power on" or "On/Off Timer". to action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for first time after turning the power off by "No action shut off". to on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No action shut-off No
	Dn" to play back SD cards automatically. (On/Off)	Play SD card automatically On
Displa	ays TV version and software license.	About
Perfo	rming Reset will clear all items set with Setup, such as channel settings. (p. 32)	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. 34) (Off/On) Changes the station identifier. (p. 33)

Checks the signal strength if interference or freezing occurs on a digital image. (p. 33)

VIERA Link[™] "HDAVI Control[™]"*

* Simultaneously control all Panasonic "HDAVI Control" equipped components using one



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. 25), 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. 25) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

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

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

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

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

① Home Theater power switches On, and playback begins.

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

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

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

Transmittable data		Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)		0	0	0
② Panel Aspect Ratio (16:9 fixed)		0	0	0
③ Closed caption information	mode	0		
	CC type	0		
	Digital setting	0		
④ Channel information	Input signal	0		
	Channel list	0		
	Caption information	0		

Note

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

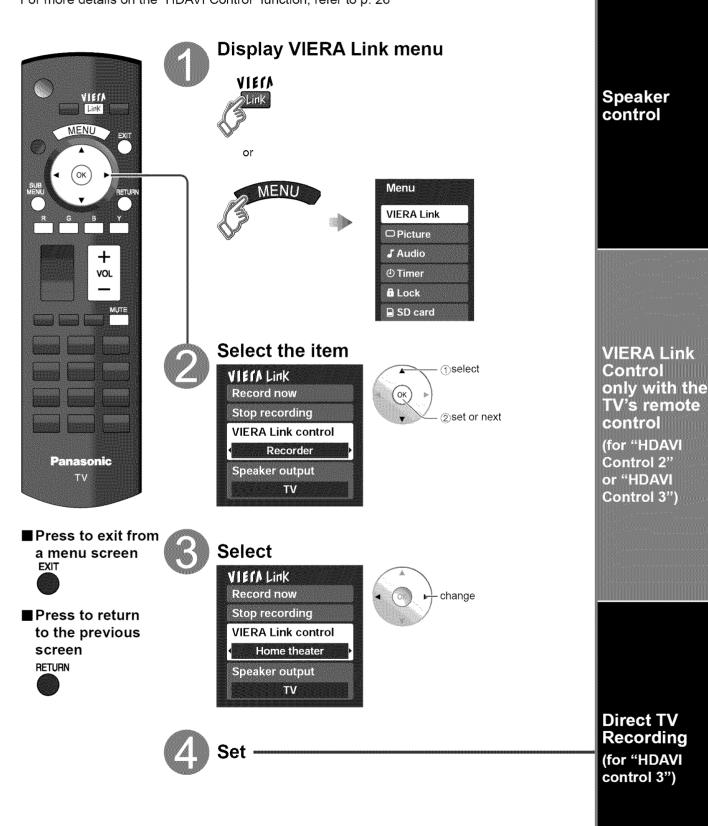
[For Recorder]

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

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

VIERA Link[™] "HDAVI Control[™]"*

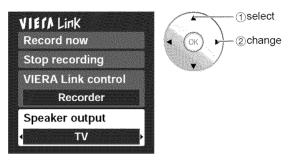
You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu. For more details on the "HDAVI Control" function, refer to p. 26



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

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

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



Home theater: Adjustment for equipment

Volume up / down



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

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

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



①select ②change

You can select available items only.

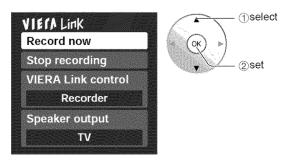
■Available TV's remote control buttons

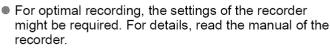
Ó	Move the cursor/Select
OK	Set/Access
	Return to the previous menu
	Display the Functions menu on the equipment
	Available when the purpose of the keys is displayed on screen

- 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.

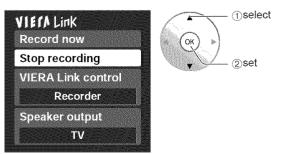
Records the current program on the recorder immediately.

①Select "Record now"





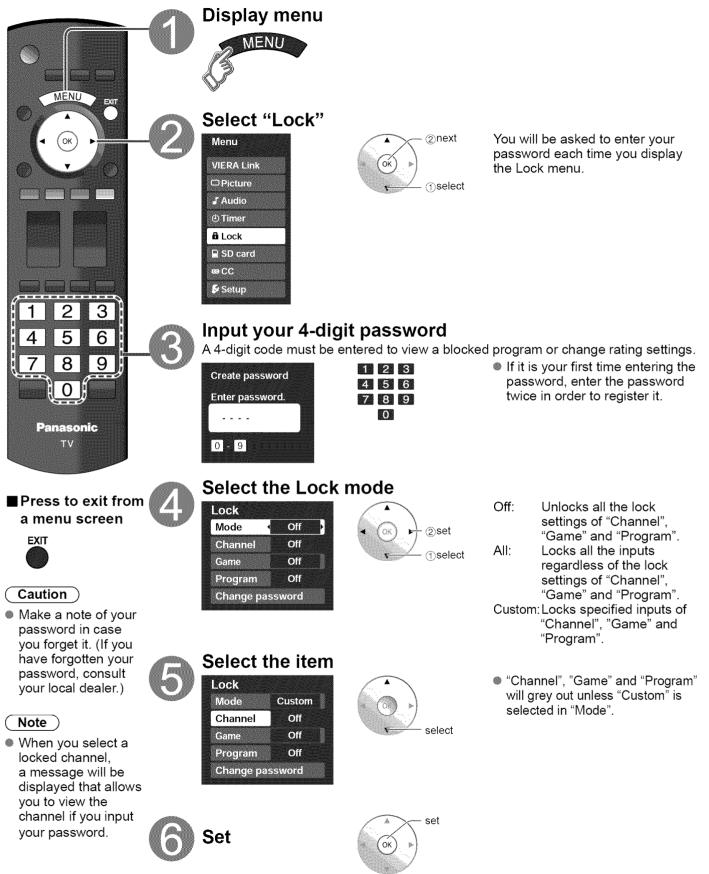
②Select "Stop recording", when you want to stop recording

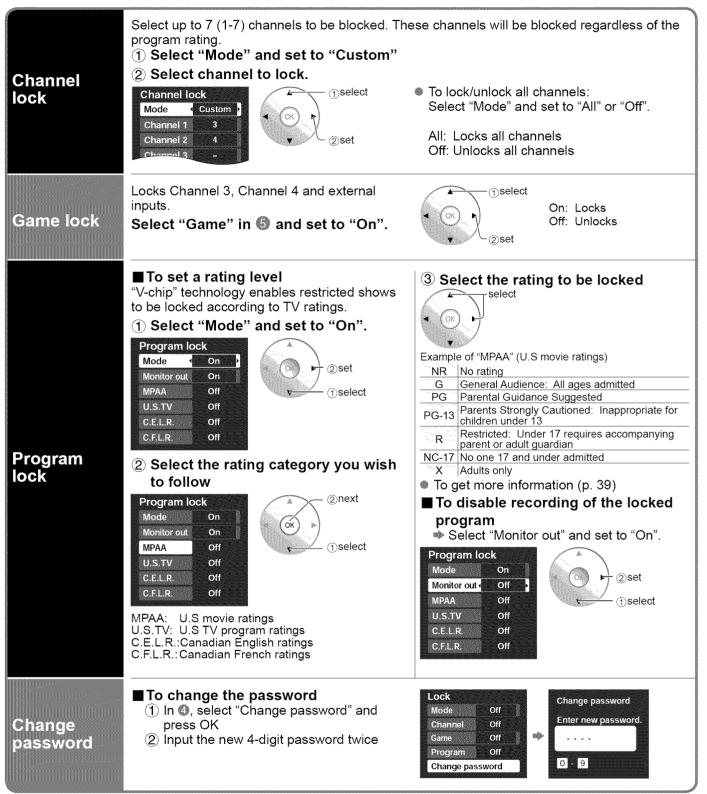


Recording will not stop automatically when the program is finished.

Lock

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





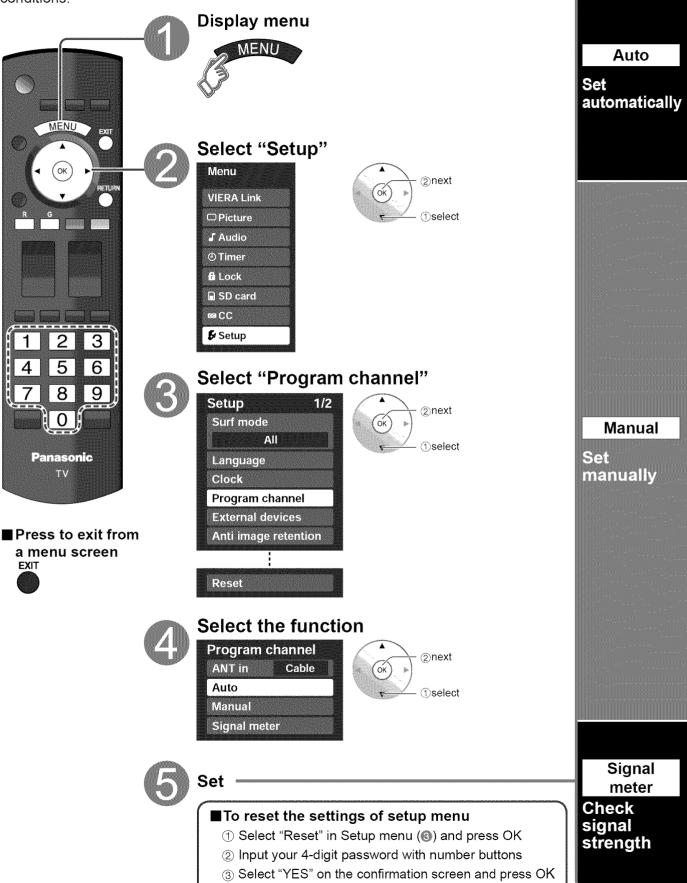
■ To select the channel or the rating of the program to be locked

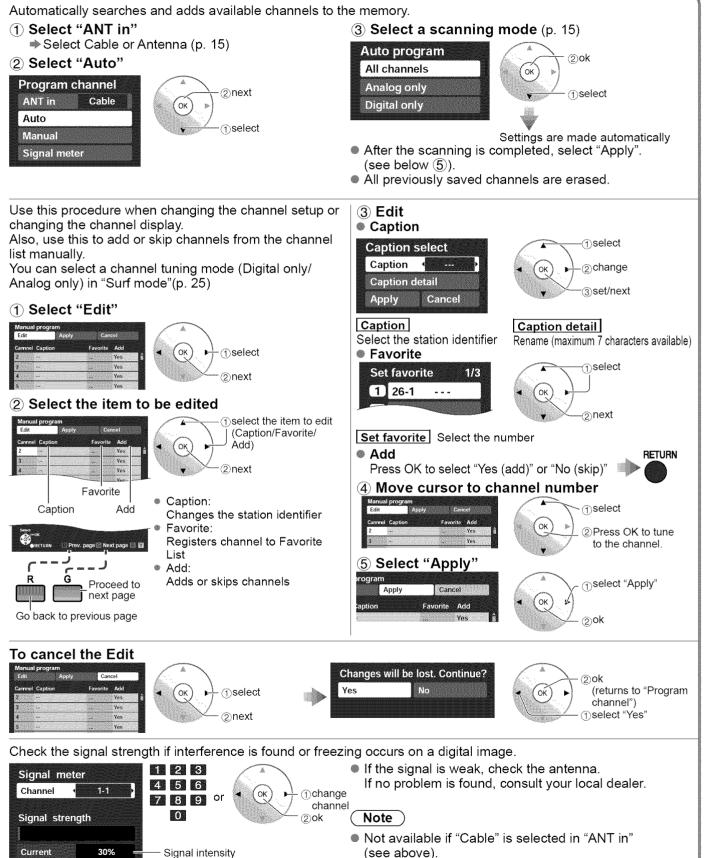
Note

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

Editing and Setting Channels

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



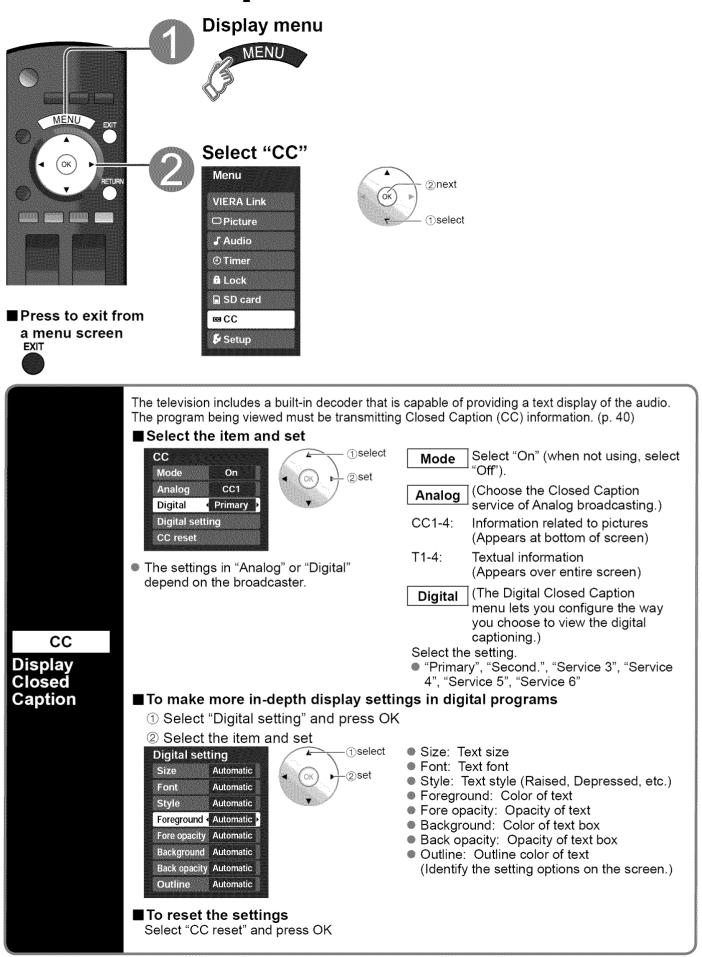


Àvailable only for digital antenna channels.

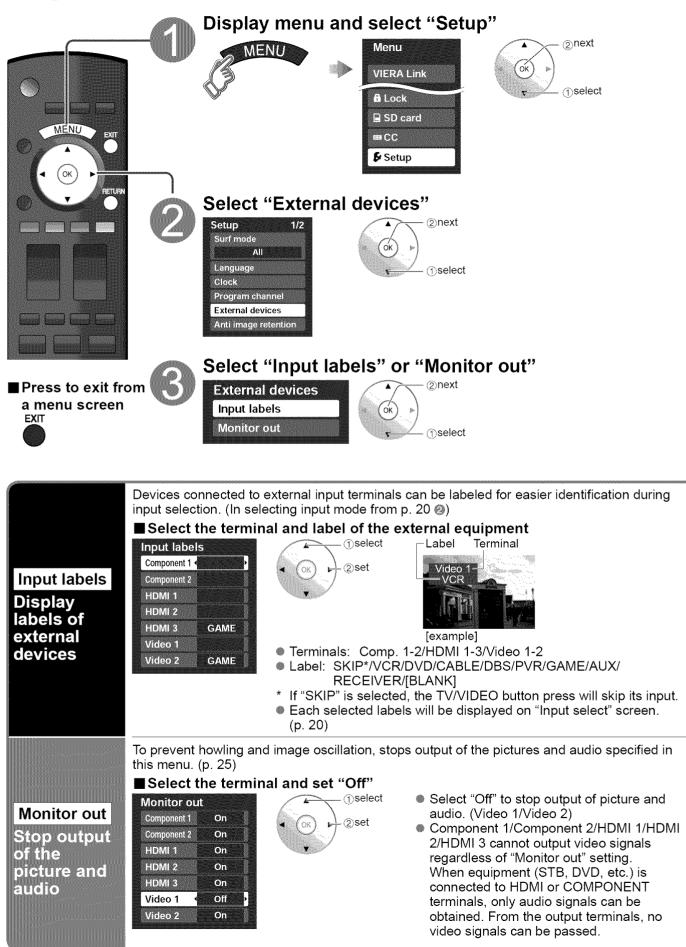
Peak level

45%

Closed Caption



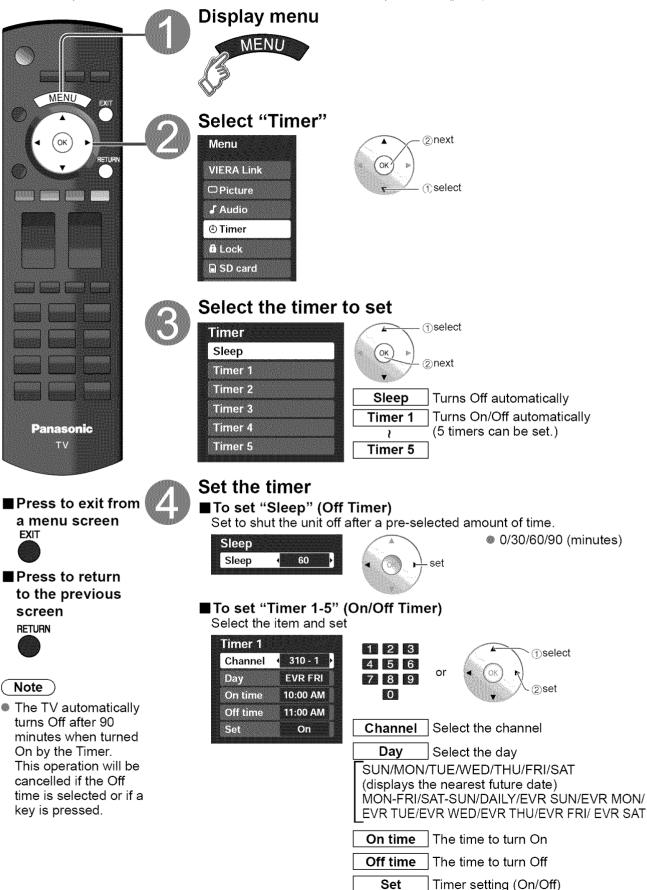
Input Labels/Monitor Out



Using Timer

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

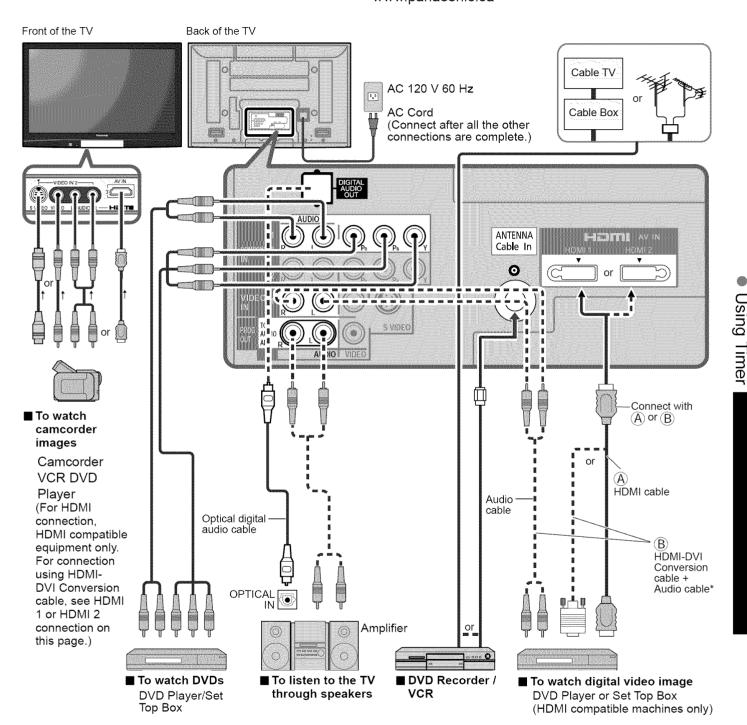
- The Clock must be set before On time/Off time settings. (p. 14)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 25) is set.



Recommended AV Connections

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

www.panasonic.ca



Note

The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 35) 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. 24, 35)
- When equipment (STB, DVD, etc.) is connected to HDMI or COMPONENT terminals, no video signals can be passed through PROG OUT terminal.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.
- * Please see p. 22-23 for setup when using an external analog audio cable with an HDMI to DVI cable.

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Recommended AV Connections

Advanced

VIERA Link[™] Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), RAM theater, or Player theater system. Refer to page 26-29 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

Note

HDMI 1 is recommended.

When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 20) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 26-29).

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) AV amp

If connection (or setting) of equipment compatible with HDAVI

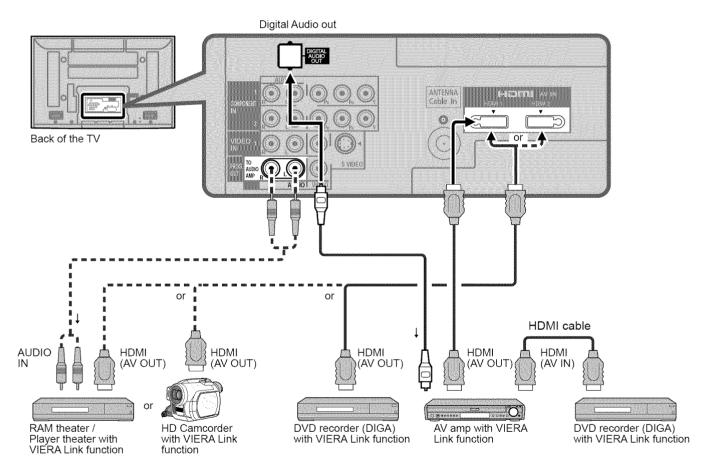
again while the power of all equipment is On (so that the unit

can correctly recognize the connected equipment) and check

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

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

When using an "VÍERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.



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

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

Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 21, 24-25).

Note

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

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 31)

■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.
Χ	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 Blocked Viewable Blocked 	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.
C	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

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

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

Caution

- The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"
 - Emergency Bulletins (Such as EAS messages, weather warnings and others)
 - Locally originated programming News Political Public Service Announcements Religious Sports Weather

Technical Information

6

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 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.

g

g

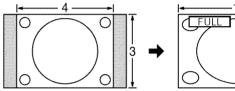
If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

Aspect Ratio (FORMAT)

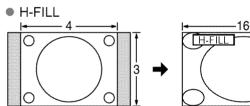
Press the FORMAT button to cycle through the aspect modes, This lets you choose the aspect depending on the format of the received signal and your preference. (p. 17)

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



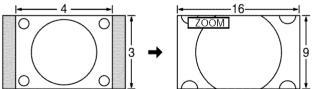


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)



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

ZOOM



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

Zoom adjust

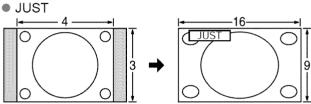
Vertical image position and size can be adjusted in "ZOOM".

- ① Select "Zoom adjust" on the "Picture" menu. (p. 22-23)
- 2 V-position: Vertical position adjustment 3 V-size: Vertical size adjustment



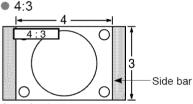
To reset the aspect ratio





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 Card browsing

Photo: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards Data format: Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0) Max. number of files: 9.999 Image resolution: 160 x 120 to 10,000,000 * DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard ** EXIF (Exchangeable Image File Format)

(Caution)

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

Partly degraded files might be displayed at a reduced resolution.

Note

Folder structure viewed in PC

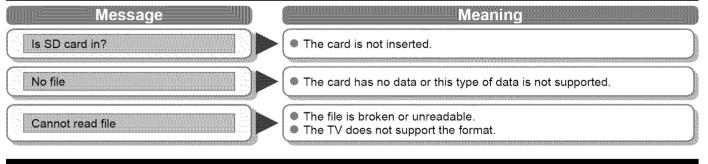
DÇIM	-Created automatically
100_PANA	-3-digit folder number + 5-digit arbitrary characters
	-4-digit arbitrary characters + 4-digit file number ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
The folder and file names may be	e different depending on the digital camera used.

- For the suitable SD Memory Cards, please confirm the latest information on the following website.
 - http://panasonic.co.jp/pavc/global/cs (This site is in English only)

Cautions in handling SD Card:

- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to a high pressure or impact. ۲
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)

SD Card warning messages



GalleryPlayer warning messages

Cannot display image due to incorrect ID data.	 There is a problem with your TV decoder. If this message appears, please contact Panasonic Service Center for assistance. Refer to page 48 (Customer Services Directory), page 47, 49 (Limited Warranty) 	
Cannot display image on SD card.	There is a problem with the data. Check the data inside the SD card.	

Viewing from a GalleryPlayer SD Card

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

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

FAQs, etc.

Technical Information

Technical Information (Continued)

VIERA Link "HDAVI Control™"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 26)
- 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 "HDAVI Control 2" (or more) function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for the HDAVI Control compatible equipment. This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 22) 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.

Input signals that can be displayed

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

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI
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		*

(Note)

Signals other than those shown above may not be displayed properly.

The above signals are reformatted for optimal viewing on your display.

Picture mode

- Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard: Recommended for normal viewing conditions with subdued room lighting.
- Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.
- For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 35) Game: Custom (Photo): Customizes each item according to your taste.
 - Photo is displayed in JPEG menu.

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.

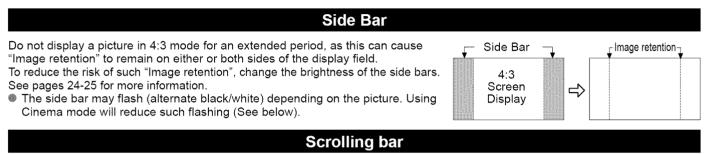
DIGITAL AUDIO OUT terminals

You can enjoy your home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

Caution

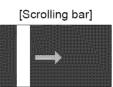
- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG OUT terminals.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.

See pages 37-38 for more information.



Scrolling bar: To prevent "Image retention", scrolls white vertical bar from left to right on a black screen. Press any key except the POWER key to return to previous screen.

You will return to previous screen if any key operation has not been performed for 15 minutes. See pages 24-25 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 solution 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.

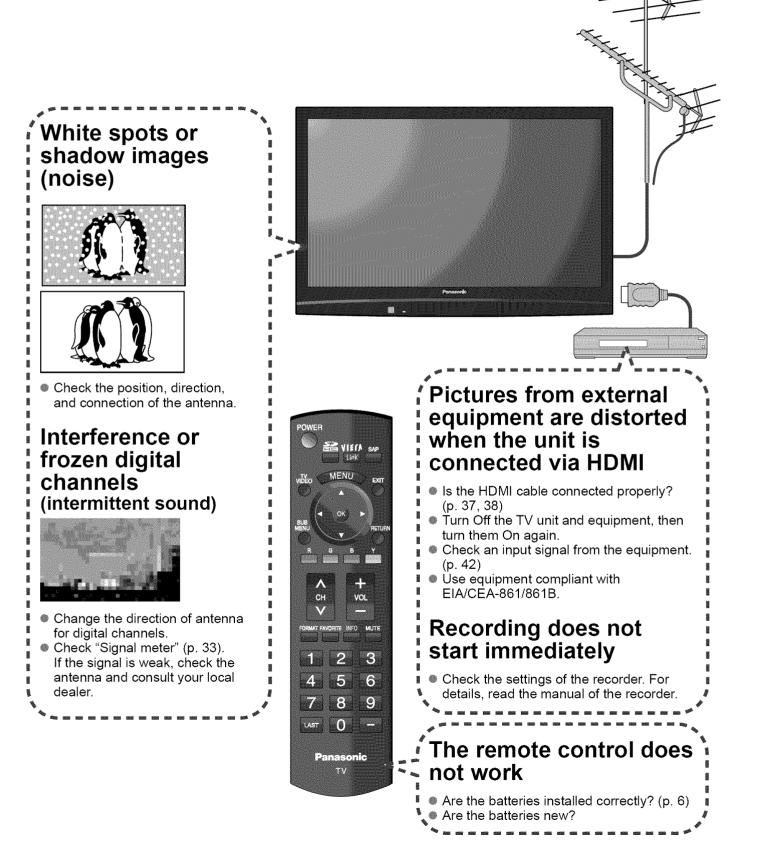
Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)

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.)

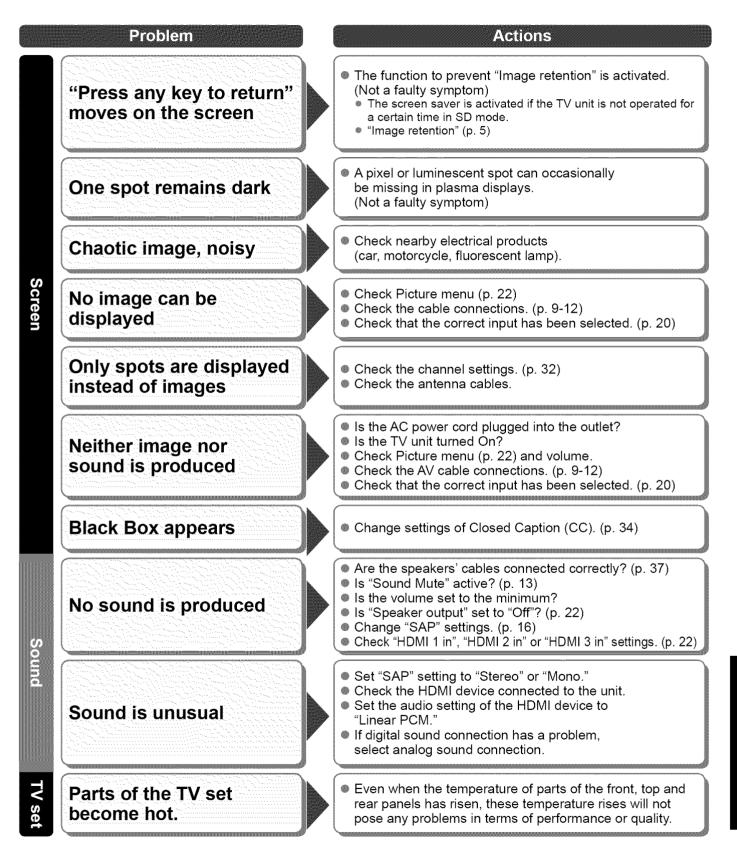
FAQs, etc.

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

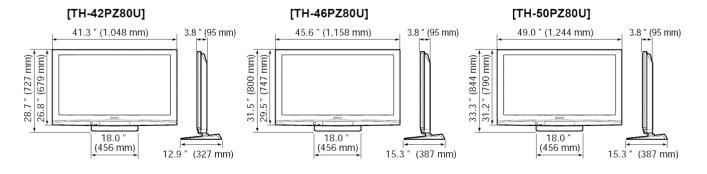


If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).



Specifications

		TH-42PZ80U	U	TH-46PZ80U	TH-50PZ80U		
	er Source	AC 120 V, 60 Hz					
Power	Maximum	573 W		628 W	690 W		
Power Consumption	Standby condition	0.2 W		0.2 W	0.2 W		
	Drive method	AC type					
Plasn	Aspect Ratio	16:9					
าอ	Visible screen size (W × H × Diagonal)	42 " class (41.6 inche measured diagonally))	46 " class (46.0 inches measured diagonally)	50 " class (49.9 inches measured diagonally)		
Display	(No. of pixels)		1,057 mm)		43.5 " × 24.4 " × 49.9 " (1,106 mm × 622 mm × 1,269 mm)		
×		2,073,600 (1,920 (W) [5,760 × 1,080 dots]	× 1,080 (H	())			
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)					
Channel Capability (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135					
Оре	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)					
Cor	VIDEO IN 1-2	S-VIDEO: Min AUDIO L-R: RC	ni DIN 4-pin A PIN Type	e × 2 0.5 V [rms]	C: 0.286 V [p-p] (75 Ω)		
Connection Terminals	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]					
n Ter	HDMI 1-3	TYPE A Connector × 3 This TV supports "HDAVI Control 3" function.					
Bİ	Card slot	SD CARD slot × 1					
nals	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					
FEA	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip Photo viewer HDAVI Control 3					
Dimensions (W×H×D)	Including pedestal	41.3 " × 28.7 " × 12.9 (1,048 mm × 727 mm =		45.6 " × 31.5 " × 15.3 " (1,158 mm × 800 mm × 387 mm)	49.0 " × 33.3 " × 15.3 " (1,244 mm ×844 mm × 387 mm)		
	TV Set only	41.3 " × 26.8 " × 3.8 " (1,048 mm × 679 mm =	× 95 mm)	45.6 " × 29.5 " × 3.8 " (1,158 mm × 747 mm × 95 mm)	49.0 " × 31.2 " × 3.8 " (1,244 mm × 790 mm × 95 mm)		
ş	Including pedestal	70.6 lb. (32 kg)		81.6 lb. (37 kg)	88.2 lb. (40 kg)		
Mass	TV Set only	66.1 lb. (30 kg)		77.2 lb. (35 kg)	83.8 lb. (38 kg)		



Note

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

Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

In-Home or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

FAQs, etc.

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

Customer Services Directory

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

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Service in Puerto Rico

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact: Our Customer Care Centre: 1-800 #: 1-866-330-0014 www.vieraconcierge.ca

Email link:

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

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

Customer's Record

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

Model Number

Serial Number

Anotación del cliente

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

<u>Modelo</u>

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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