

Operating Instructions 42"/50" Class 1080p Plasma HDTV (41.6/49.9 inches measured diagonally)

> Model No. TH-42PZ80Q TH-50PZ80Q



English

// //

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

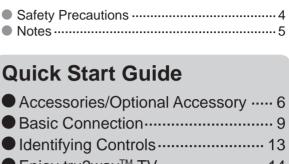
HDMI

TQB2AA0798

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



Viewing



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Please read before using the unit

Enjoy your TV! Basic Features

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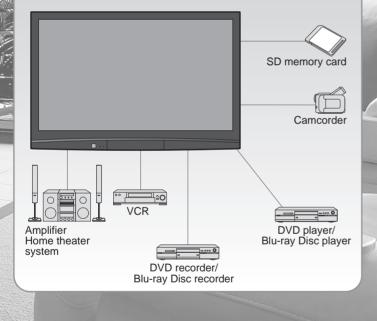
Advanced Features

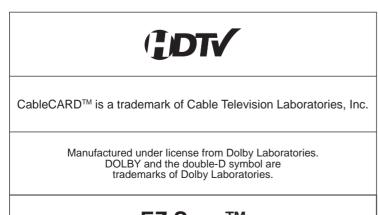
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Enjoy rich multimedia







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.
- 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.



- 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 1-877-95-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 Panasonic Corporation.)

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

nanging 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

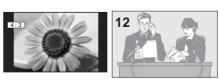
This causes the image to remain on the plasma screen ("Image retention"). This is not considered a malfunction and is not covered by the warranty.

Typical still images

Channel number and other logos

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

Computer image

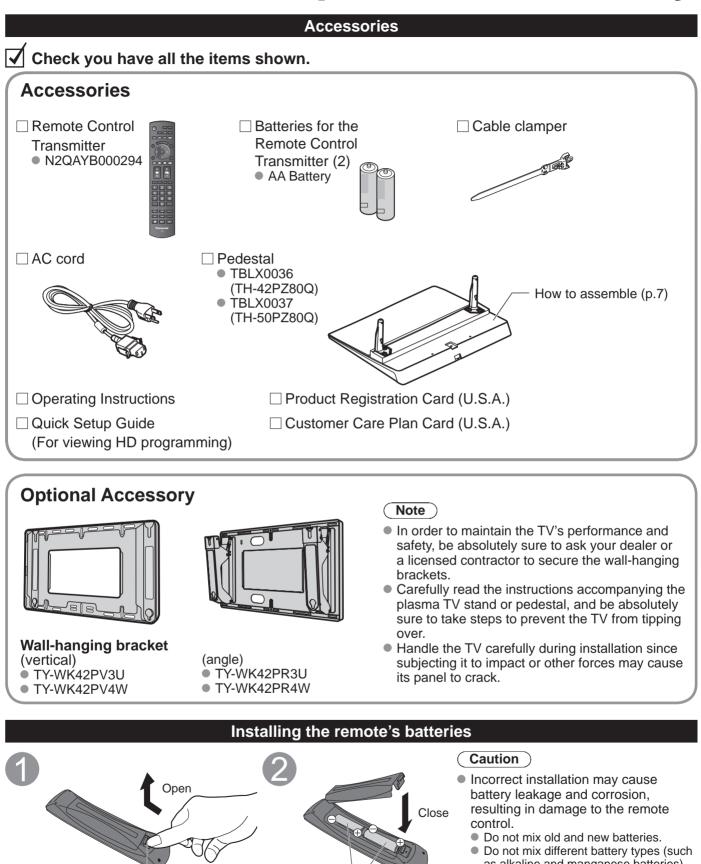


To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 53)

Set up

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

Accessories/Optional Accessory



Note the correct polarity

(+ or -).

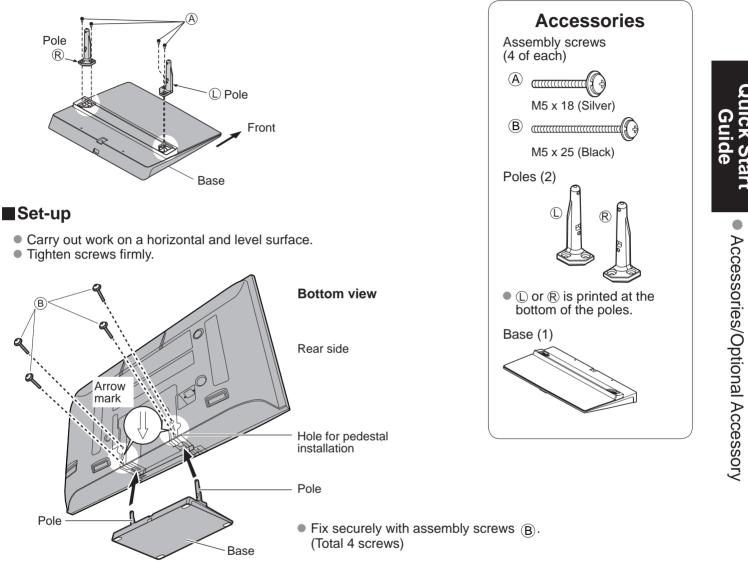
- as alkaline and manganese batteries).
 Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39)

Hook

Attaching the pedestal to TV

Assembling the pedestal

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



Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

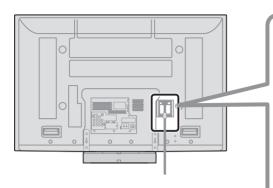
Do not use the pedestal if it becomes warped or physically damaged.

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

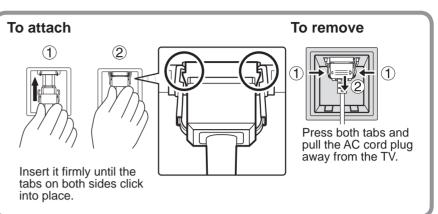
During set-up, make sure that all screws are securely tightened.

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

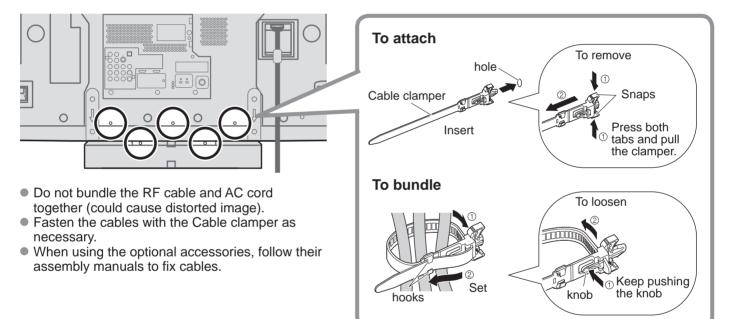
Accessories/Optional Accessory (Continued)



AC Cord Connection



Cable Binding Instructions



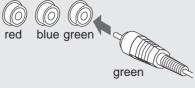
Reference of connection





• Firmly tighten by hand.





Match colors of plugs and terminals.Insert firmly.



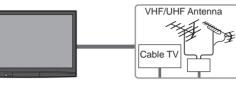
Insert firmly.

Basic Connection

Example 1

Connecting Antenna (To watch TV)

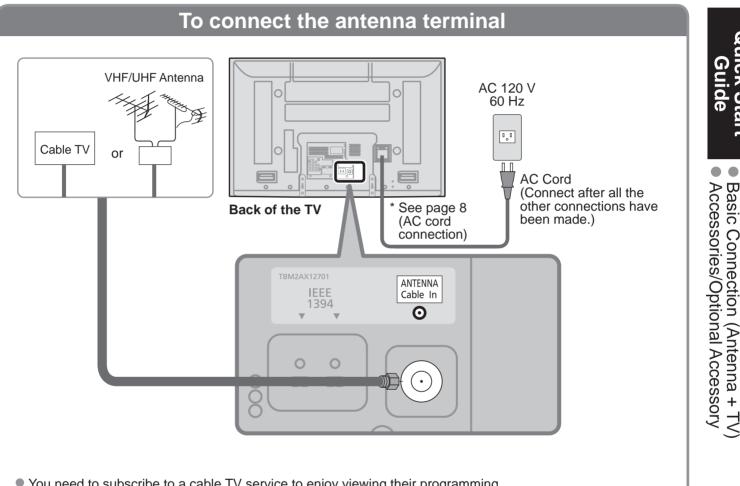
TV



VHF/UHF Antenna

• NTSC (National Television System Committee): Conventional broadcasting

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



- You need to subscribe to a cable TV service to enjoy viewing their programming.
- You can enjoy high-definition programming by subscribing to a high-definition cable service.
- The connection for high-definition can be done with the use of HDMI or Component Video cable. (p. 12)
- To view high-definition programming, select the correct video input. (p. 22)

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

Basic Connection (Continued)

Example 2

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

τv

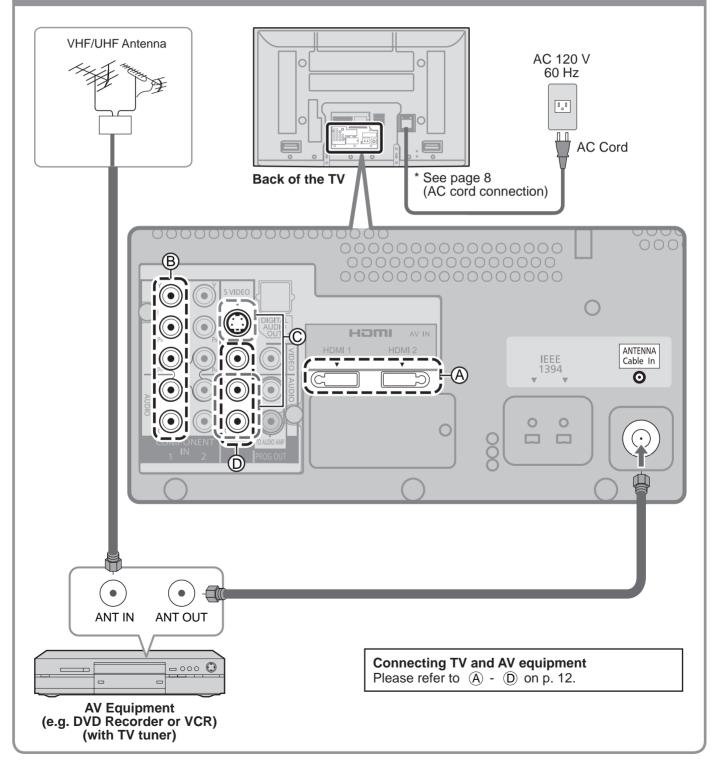


DVD Recorder

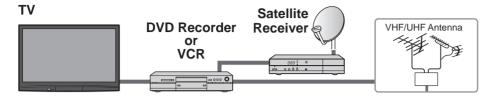
If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable. (p. 12) VCR

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

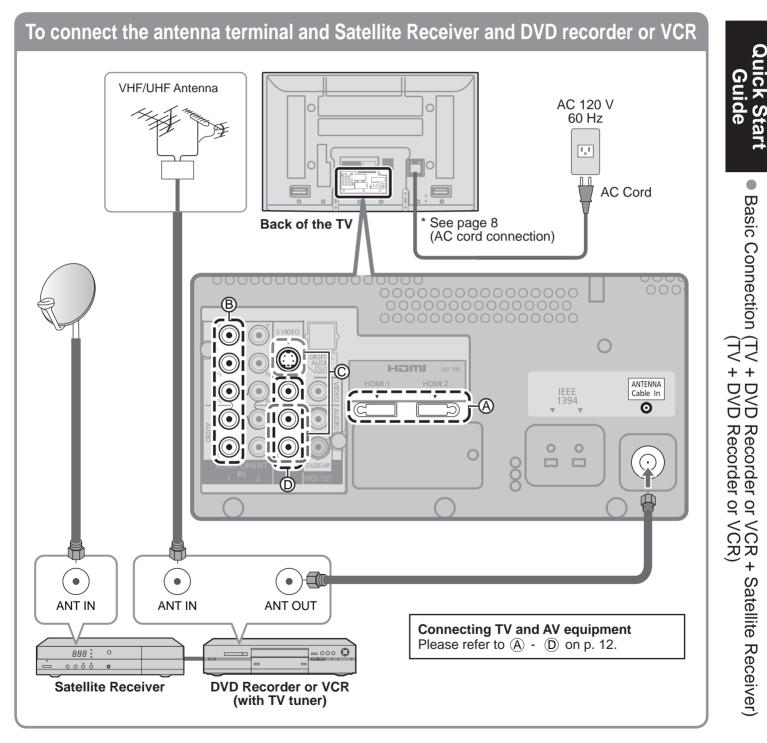
To connect the antenna terminal and DVD recorder or VCR



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)

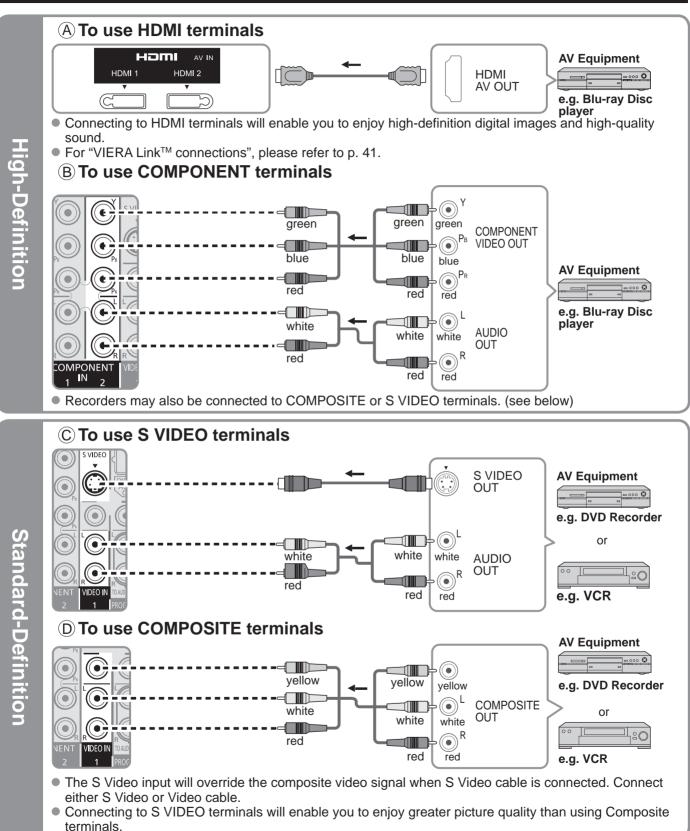


Note

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

Basic Connection (Continued)

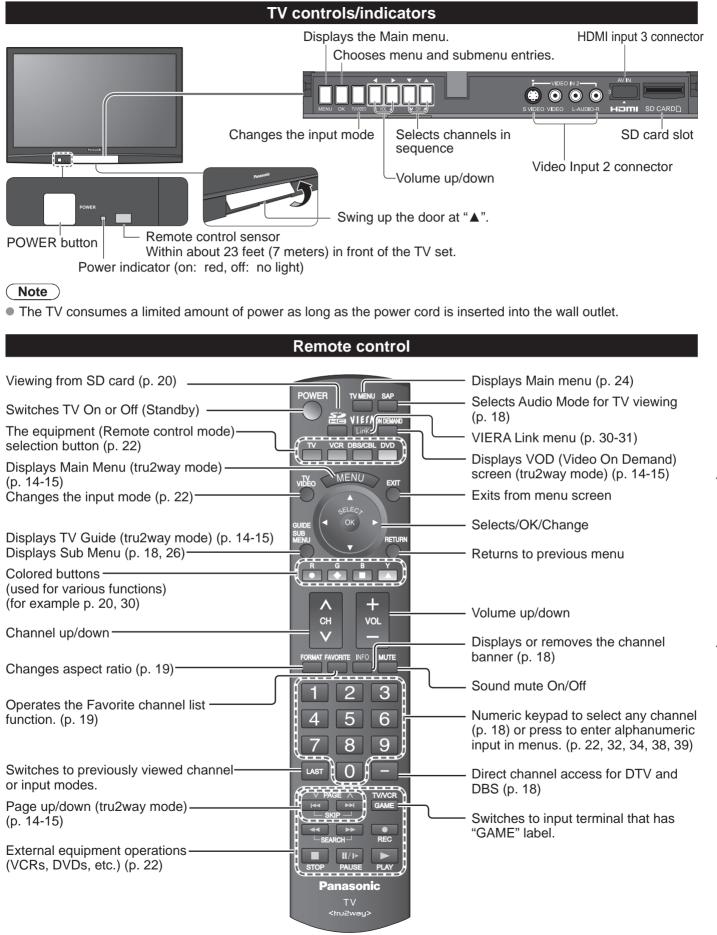
AV cable connections



Note

- Some programs contain a copyright protection signal to prevent VCR 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



Enjoy tru2way™ TV

You can enjoy a variety of advanced interactive, two-way services like VOD (Video on Demand), EPG (Electronic Program Guide), home banking, interactive games, as well as other e-Commerce applications on your TV with just the TV remote control.

Preparing/Switching the TV to tru2way mode



Follow steps 1 and 2 switch the TV to tru2way mode in order to use the service. Steps 1 2 are not necessary if the setup has been completed with your cable company.

Insert a CableCARD™

Consult your cable company for the CableCARD connection.

9

Switch the TV to tru2way mode by restarting

Follow the message on the screen.It is not possible to change the mode by just turning the TV off and on.

Note

- During initial setup and switch to tru2way mode, new application software must be downloaded from the cable company. The download time will vary based on the speed and size of the download.
- If you experience a front panel control or remote control function hang-up when using a CableCARD, unplug the TV and plug it back in and try the controls again. If this condition persists, please call Panasonic Customer Call Center for further instructions.
- Do not insert a PCMCIA card into the CableCARD slot. This may damage the TV.

Returning to conventional TV mode from tru2way mode

You can also use the TV conventionally in non tru2way service areas.

- Please consult your cable service company or local Panasonic dealer for this process.
- Steps ① ② are not necessary if the setup has been completed with your cable company or local Panasonic dealer.

① Remove the CableCARD

Follow the directions on the screen.

② Reboot to return to conventional TV mode

③ Using the TV in conventional mode

You can enjoy various functions in conventional TV mode with these Operating Instructions.

Using tru2way service

- Available services will vary depending on the cable service company.
- For more details about the service, please ask your cable service company.

Available TV's remote control buttons

MENU	Display Main menu
Display VOD(Video On Demand) screen.	
GUIDE SUB MENU	Display TV Guide
V PAGE A	Page up/down
	Available when the function of the keys is displayed on screen

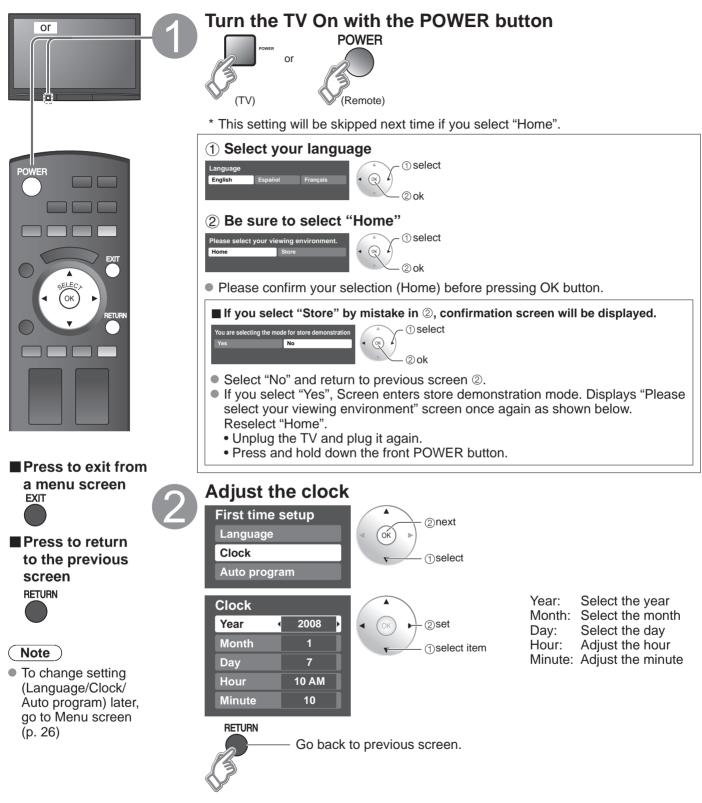
Note

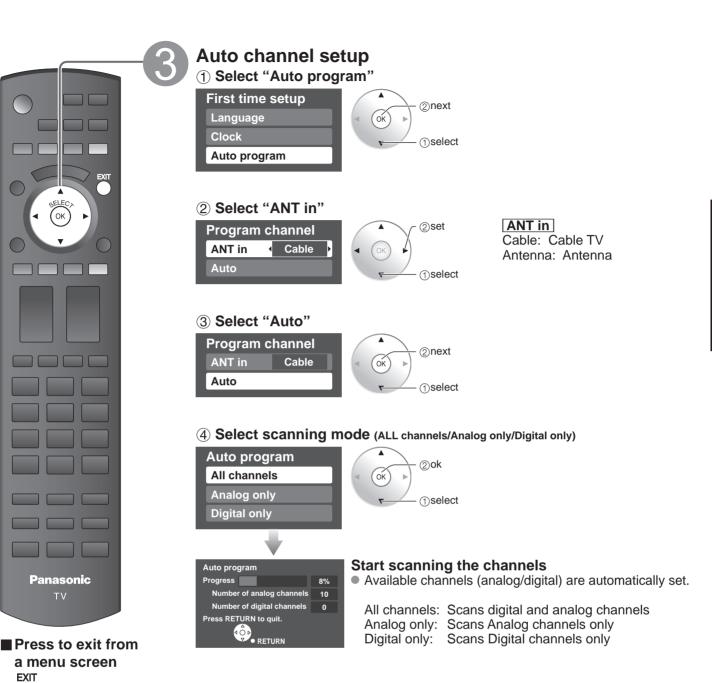
• These Operating Instructions are described primarily for the conventional TV. For the tru2way mode, operations, menus and functions will vary depending on the cable service company.

• IEEE1394 terminals are only available when the tru2way application supports it.

First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 26-27) is set to "No".





(5) Confirm registered channels



- If OK is not pressed after selecting "Apply", the channels will not be saved. The channels 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):	
Digital (ATSC):	
	ł

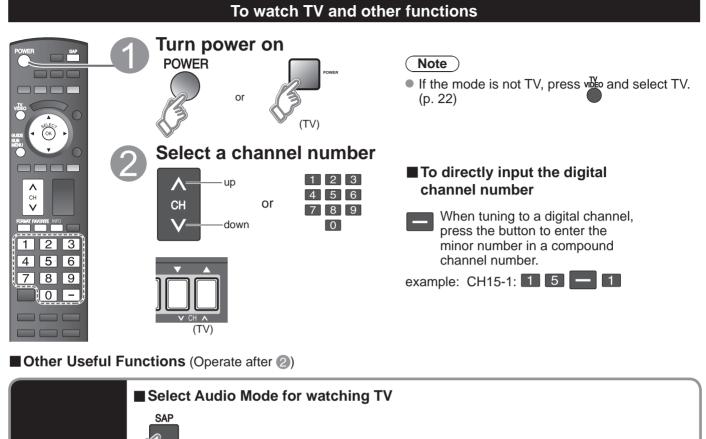
Conventional broadcasting New programming that allows you to view more channels featuring high-quality video and sound

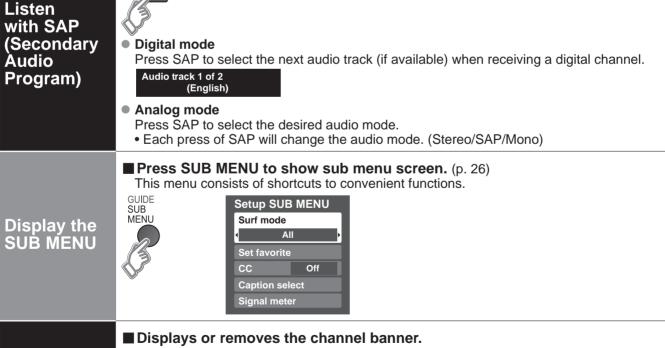
Start

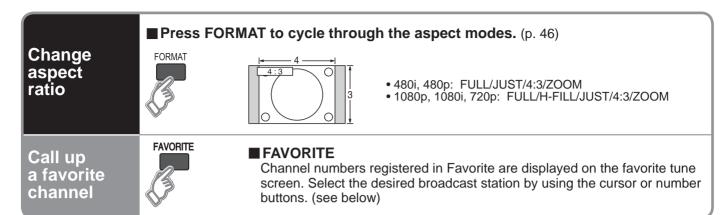
First Time Setup

Watching TV

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

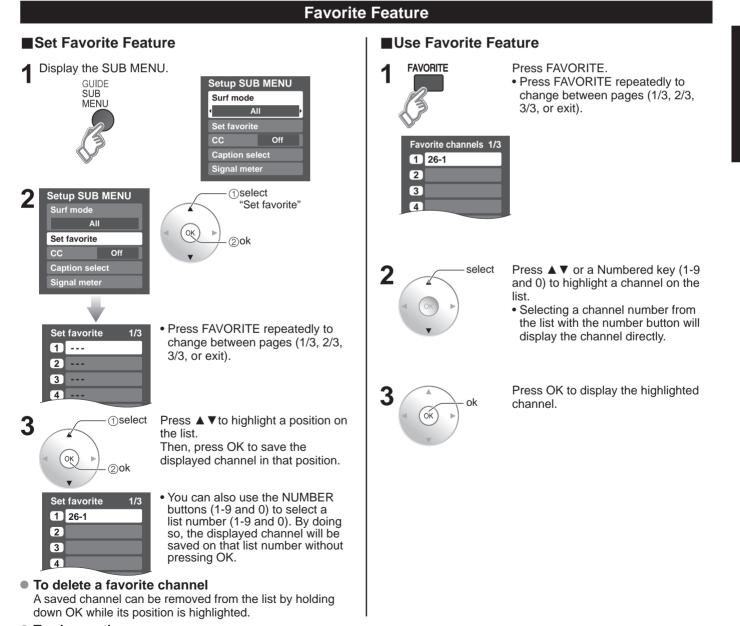






Note

- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 17, 35)
- The channel number and volume level remain the same even after the TV is turned off.

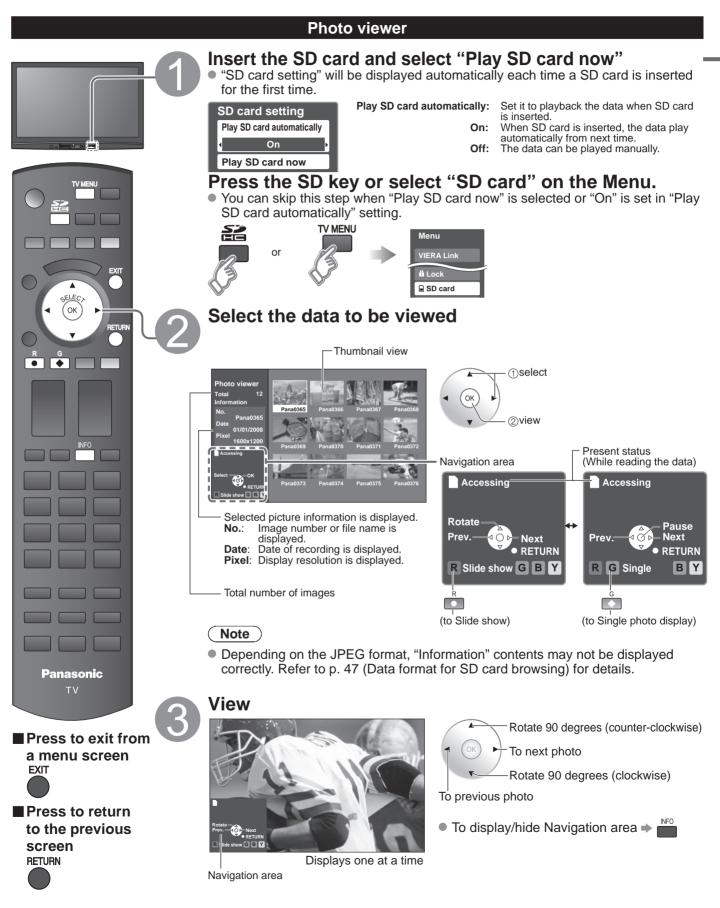


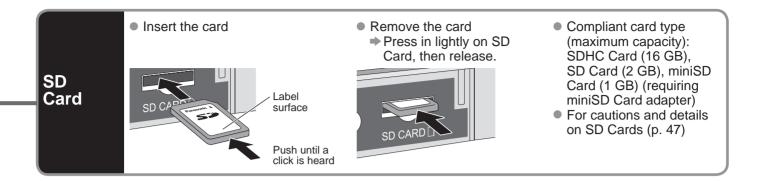
Viewing

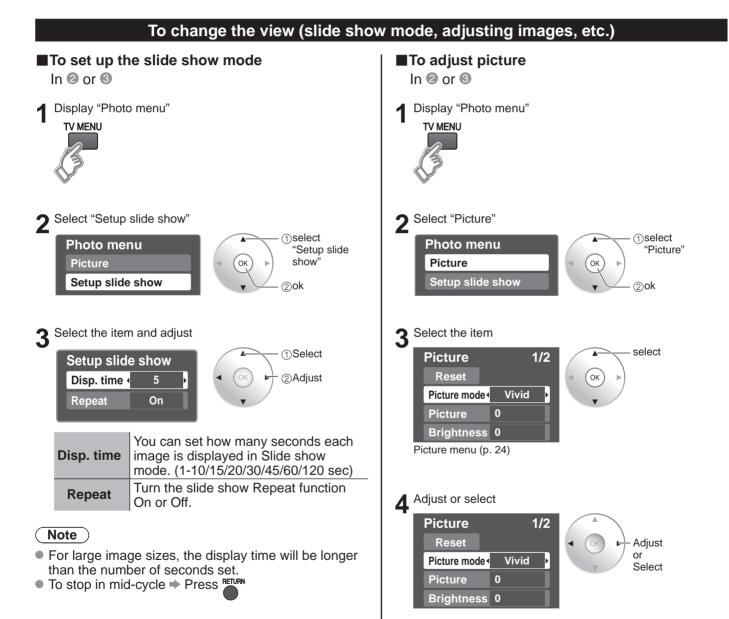
Watching TV

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.)







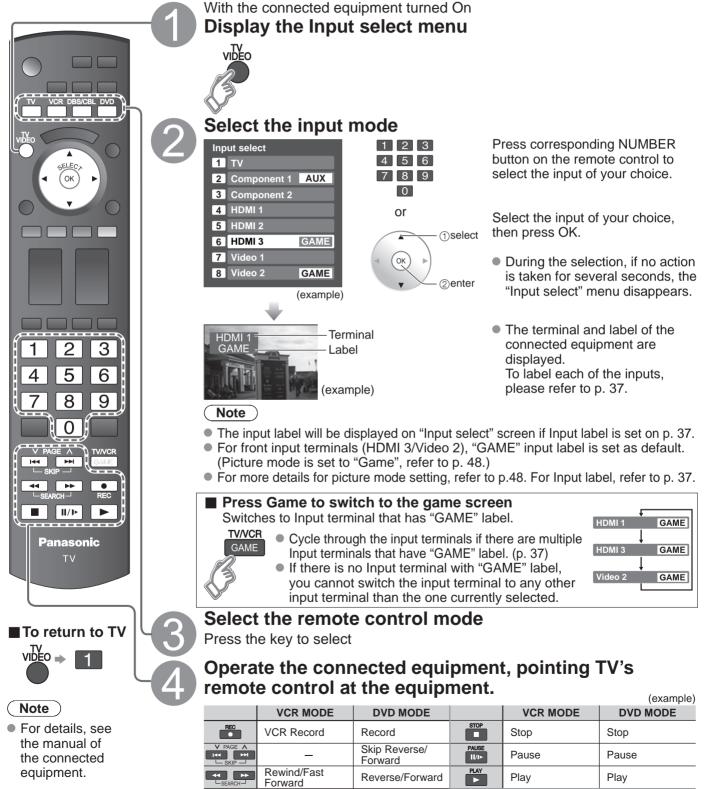
Watching Videos and DVDs

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

Input Select

You can select the external equipment to access.

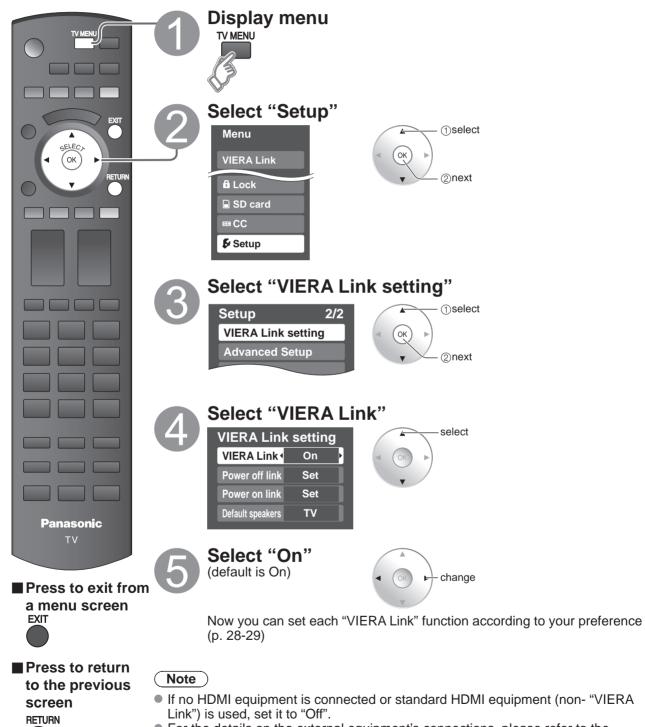
To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 39)



(For other operations, see p. 42)

VIERA Link[™] Setting

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



• 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

SD card

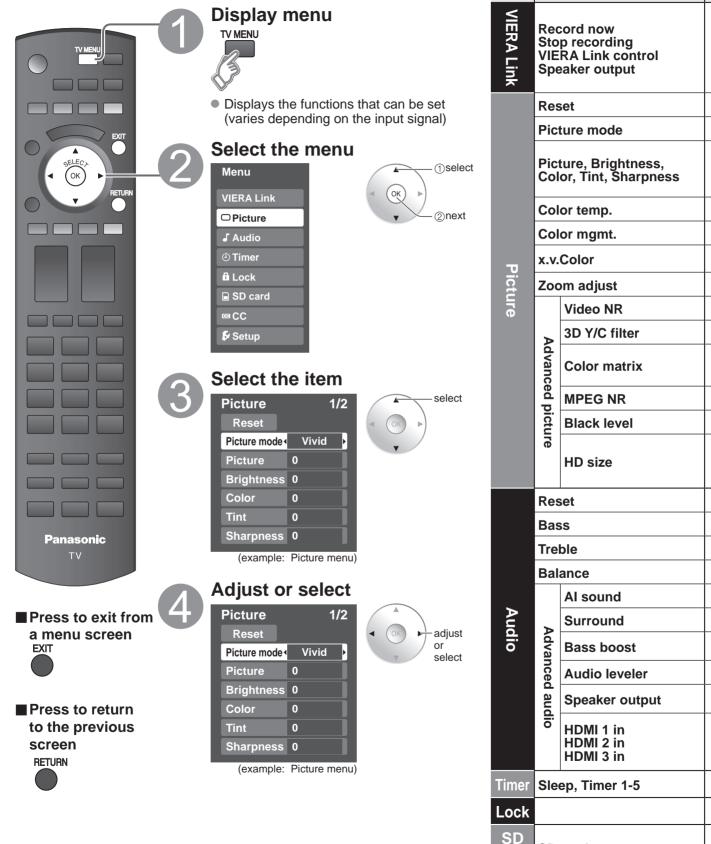
CC

Card

Item

Menu

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



Adjustments/Configurations (a	alternatives)
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote contro [VIERA Link control]	l (p. 30-31).
 Selects equipment to access and operate. (Recorder/Home theater/Player [Speaker output] Selects an audio output. (Home theater/TV) (p. 30-31) VIERA Link menu is accessible directly by pressing the VIERA Link button on the second second	
Resets all picture adjustments to factory default settings except for "Advance	
Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 48)	Picture mode Vivio
Adjusts color, brightness, etc. for each picture mode to suit your taste	Picture +20 Tint 0
 Display range Picture/Brightness/Color/Sharpness: 0 - 100 Tint: -50 - +50 	Brightness 0 Sharpness 0 Color 0
Selects a choice of Cool(blue), Normal, or Warm(red) color. (Cool/Normal/N	Warm) Color temp. Coo
On: Enhances green and blue color reproduction, especially outdoor scene	es. (On/Off) Color mgmt. Or
Auto: Provide the appropriate picture when images corresponding to "x.v.C input of this TV. (Off/Auto)	olor" are input via the HDMI x.v.Color Auto
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46)	Zoom adjust
Reduces noise, commonly called snow. Leave it off when receiving a strong	g signal. (Off/On) Video NR Off
Minimizes noise and cross-color in the picture. (On/Off)	3D Y/C filter Or
 Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. 	Color matrix SD
Reduces noise of specific digital signals of DVD, etc. (On/Off)	MPEG NR Of
Selects Dark or Light. Valid only for external input signals. (Dark/Light)	Black level Ligh
 Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-d 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% 	efinition signal. (Size 1/ Size 2) HD size Size
Resets Bass, Treble and Balance adjustments to factory default settings.	Reset
Increases or decreases the bass response.	Bass 0
Increases or decreases the treble response.	Treble 0
Emphasizes the left / right speaker volume.	Balance 0
Equalizes overall volume levels across all channels and external inputs. (Or	n/Off) Al sound On
Enhances audio response when listening to stereo. (On/Off)	Surround Of
 Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". 	Bass boost Of
Minimizes volume disparity after switching to external inputs	Audio leveler 0
Switch to "Off" when using external speakers (On/Off) • "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected	Speaker output Or
The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio inp (Digital/Component 1/Component 2/Video 1/Video 2)	HDMI1 in Digit HDMI2 in Digit HDMI3 in Digit
The TV can automatically turn On/Off at the designated date and time (p. 38	B) Sleep 60
Locks the channels and programs (p. 32)	
Displays SD card data (p. 20-21)	SD card

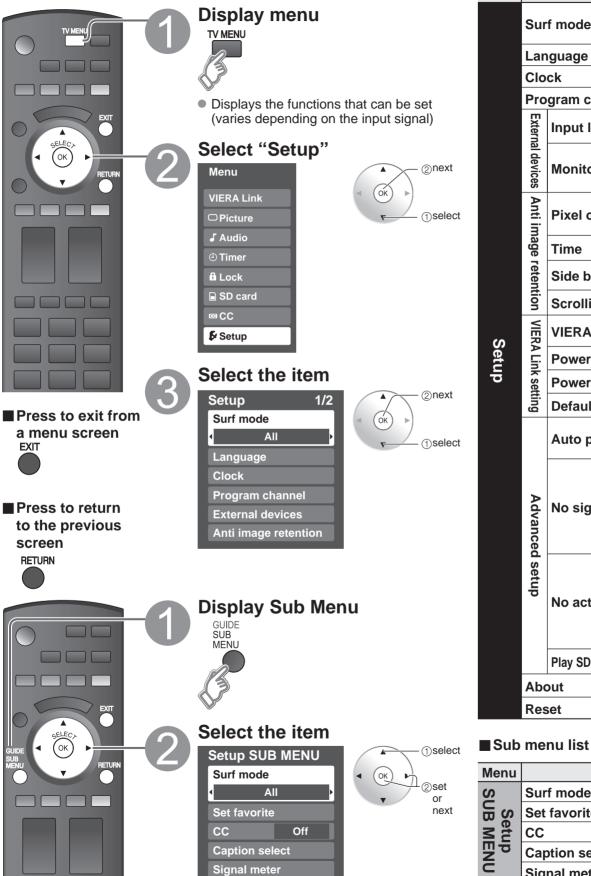
• In AV mode, the Audio menu and Setup menu give fewer options.

Displays subtitles (Closed Caption) (p. 36)

CC

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			
	Language				
	Clock				
	Program channel				
	Externa	Input labels			
	Idevices	Monitor out			
	Anti im	Pixel orbiter			
	age	Time			
	External devices Anti image retention	Side bar			
		Scrolling bar			
S	VIERA Link setting	VIERA Link			
etu		Power off link			
σ		Power on link			
		Default speakers			
	Advanced setup	Auto power on			
		No signal shut-off			
		No action shut-off			
		Play SD card automatically			
	Abo	out			
	Res	set	_		

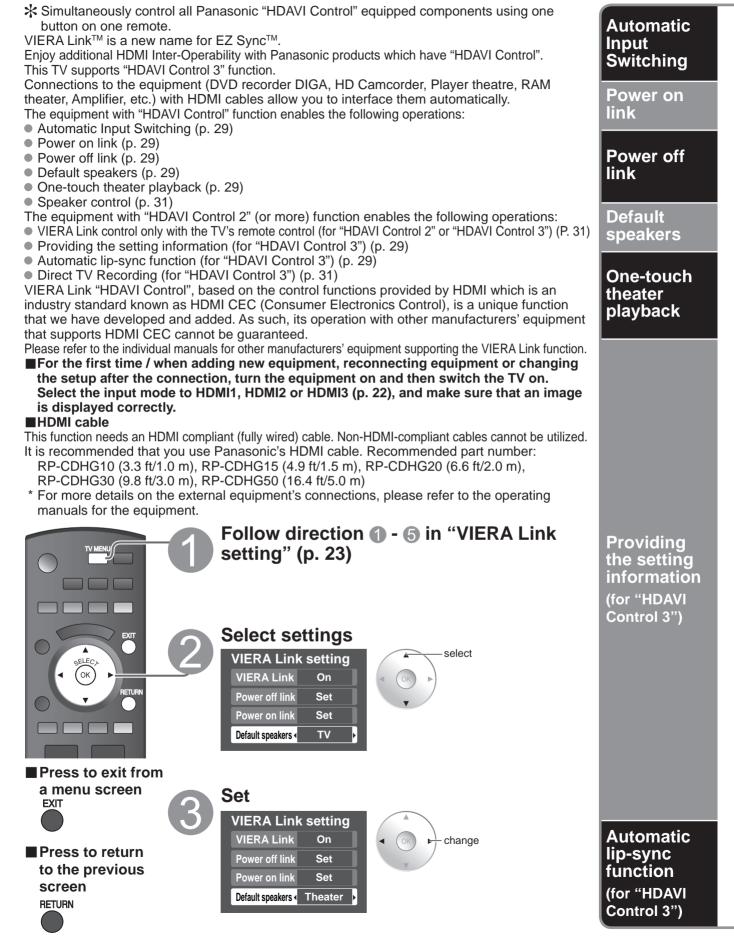
(Continued)

Sets the mode to select the channel with Channel up/down button (All/Favorite: Only channels registered as FAVORITE (p. 19) Surf mode All Favorite: Only channels registered as FAVORITE (p. 19) Language Selects the screen menu language (p. 16) Ciock Adjusts the clock (p. 16) Ciock Selects the screen menu language (p. 16) Ciock Selects the terminal and label of the external equipment (p. 37) Program channel Selects the terminal and label of the external equipment (p. 37) Prevents "Image retention" with Wobbling. (Automatic/Force) Prevents "Image retention" with Wobbling. (Automatic/Force) Prevents "Image retention" with Wobbling. (1/2/3/4) Change the brightness of the side bar (Off/Dark/Mid/Pright) (4:3 mode only) Side bar Off/Dark/Mid/Pright) (4:3 mode only) The recommended setting is "Bright" to prevent panel "Image retention". (p. 49) Serolling bar Press "OK" to start "Scrolling" on the screen (p. 49) Serolling bar Controls equipment connected to HDMI terminals (p. 28) (On/Off) VERA Link 0n Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No) Power on link set Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No) Power on link set Set set be time at turning the power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel. Weight shued #	Adjustments/Configurations (alternatives)	
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 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. 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". 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". 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 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 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. PlaySD card automatically. On Displays TV version, software license and cableCARDTM. About Displays TV version, software license and cableCARDTM. Displays TV version, software license and cableCARDTM. Displays TV version Displays TV version Displa	for more than 10 minutes. (Set/No)	
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Displays TV version, software license and cableCARD™. About	 "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". 	No action shut-off No
	Set "On" to play back SD cards automatically. (On/Off)	Play SD card automatically On
Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Displays TV version, software license and cableCARD [™] .	About
	Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Reset

	Adjustments/Configurations (alternatives)
Sets the mode to select the channel w	th Channel up/down button (All/Favorite/Digital Only/Analog only)
Sets favorite channels. (p. 19)	
Displays Closed Caption. (p. 36) (Off/	On)
Changes the station identifier. (p. 35)	

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

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

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

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

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

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

① Home Theater power switches On, and playback begins.

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

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

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

Transmittable data		Recorder	Home theater	Player
 On Screen Display Language setting (English/Español/Français) 		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 "HDAVI Control" function, refer to p. 28

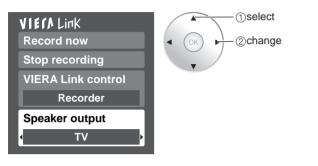
Display VIERA Link menu VIECA VIEC Speaker Link Link control or EXIT SELEC) TV MENU Menu RETUR **VIERA** Link Picture È È È L J Audio +(1) Timer Lock _ SD card MUTE Select the item **VIERA Link** (1)select Control VIECA Link only with the TV's remote **Record now** OK Stop recording (2) set or next control VIERA Link control (for "HDAVI Recorder Control 2" Speaker output or "HDAVI тν Control 3") Select Panasonic VIECA Link **Record now** change Stop recording Press to exit from VIERA Link control a menu screen Home theater EXIT Speaker output тν Press to return to the previous screen RETURN Set

Direct TV Recording (for "HDAVI control 3")

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

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

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



Home theater: Adjustment for equipment

Volume up / down 🔺



- Mute
 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)



(OK) ↓ ②change

You can select available items only.

Available TV's remote control buttons

↓ (SLECA) ↓ (OK) ↓	Move the cursor/Select	
ОК	Set/Access	
RETURN	Return to the previous menu	
GUIDE SUB 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.

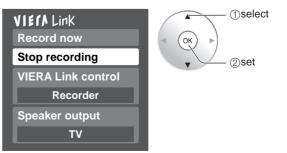
Records the current program on the recorder immediately.

①Select "Record now"



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

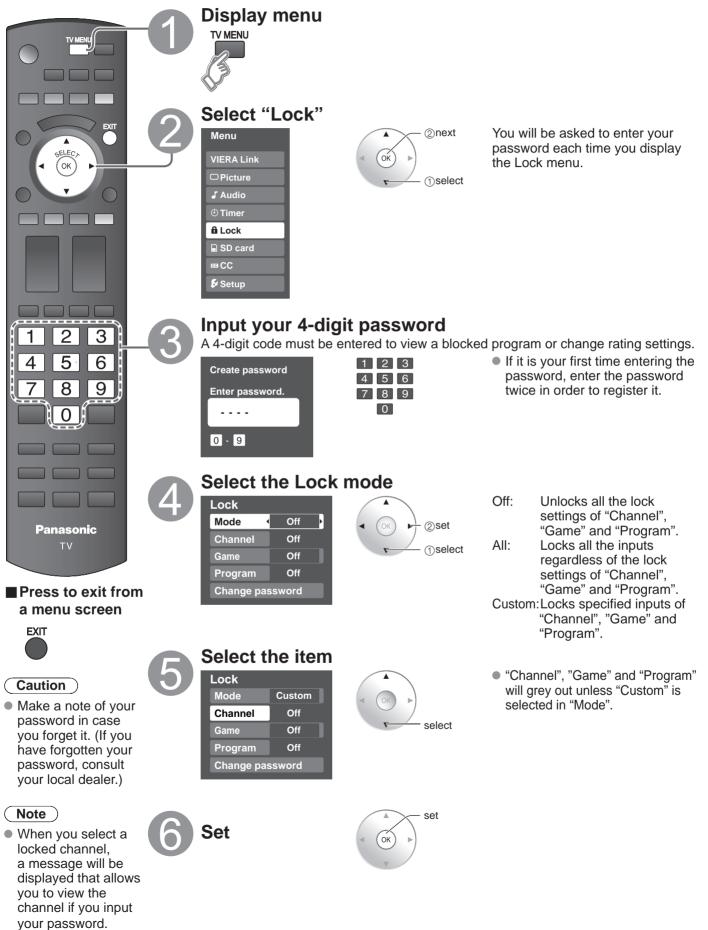
②Select "Stop recording", when you want to stop recording

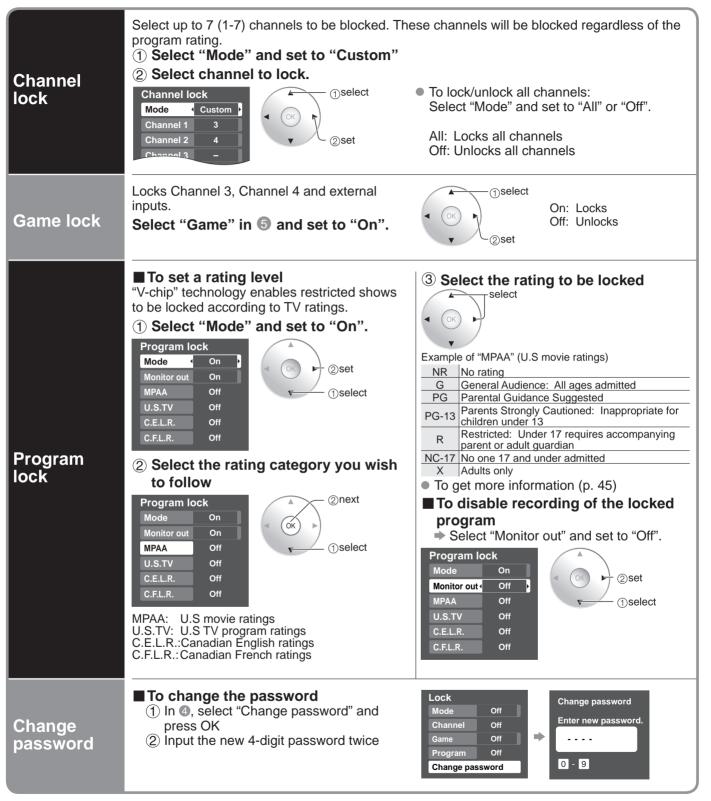


 Recording will not stop automatically when the program is finished.

Lock

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





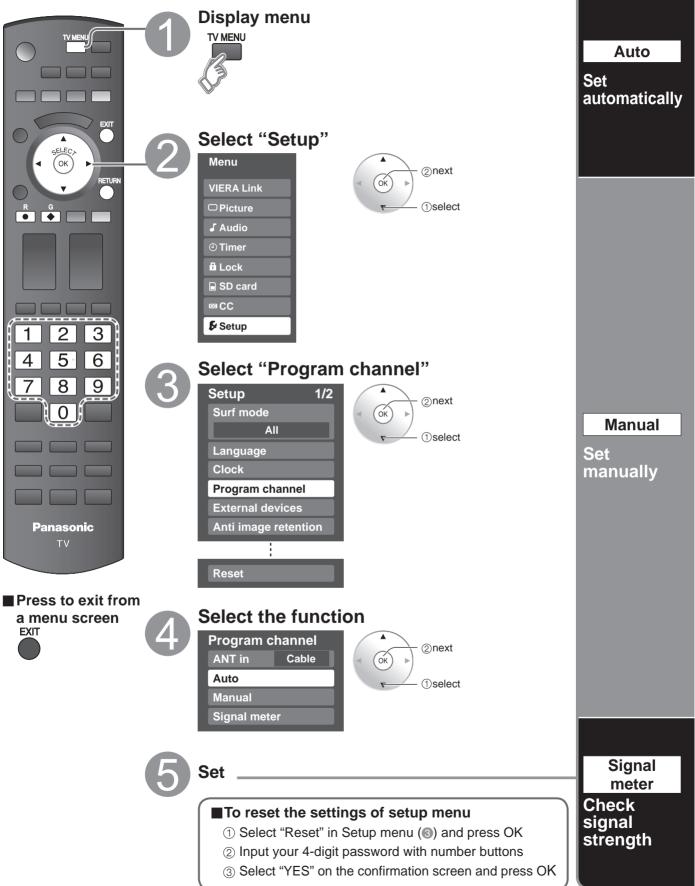
To select the channel or the rating of the program to be locked

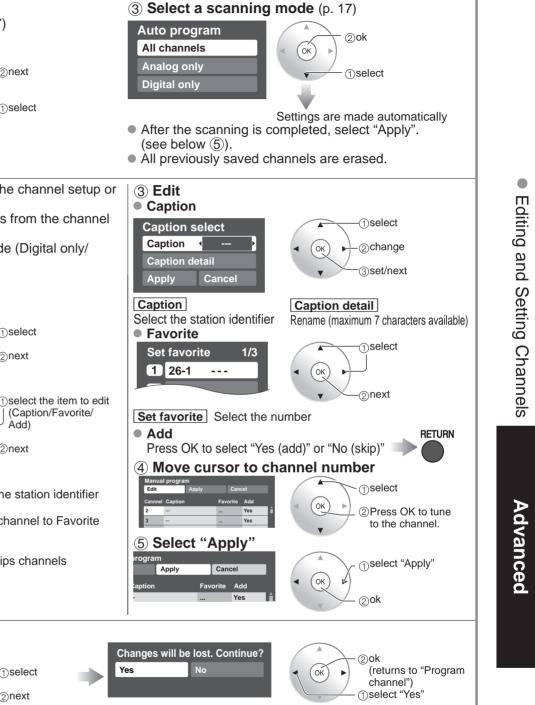
Note

- 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.





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

ОK

Automatically searches and adds available channels to the memory.

next

nselect

Dselect

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

ОК

You can select a channel tuning mode (Digital only/ Analog only) in "Surf mode" (p. 26)



1 Select "ANT in"

② Select "Auto"

Program channel

Cable

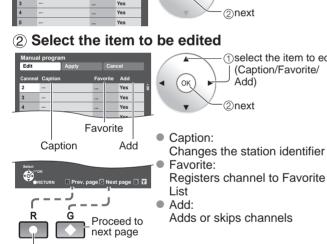
ANT in

Manual

Signal meter

Auto

Select Cable or Antenna (p. 17)



Go back to previous page

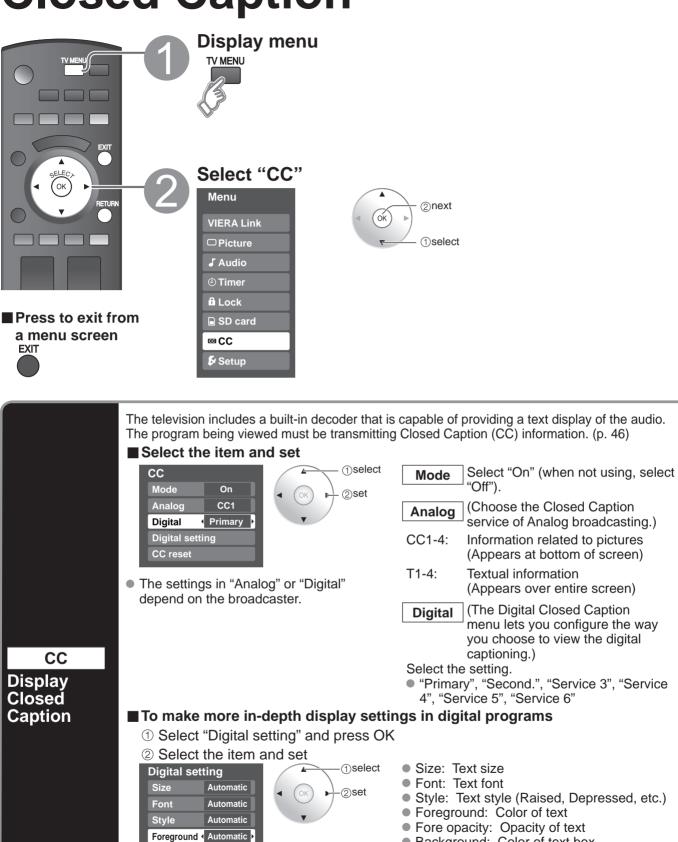
To concel the Edit

Manual program Edit Apply Cancel		Changes will be lost. Continue?	②ok
Cannuel Caption Favorite Add 2 Yes i 3 Yes i 4 Yes i 5 Yes	● OK ● ①select ②next	Yes No	(returns to "Program channel") ①select "Yes"

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

Signal meter Channel 1-1	1 2 3 4 5 6 7 8 9 or • • • •	 If the signal is weak, check the antenna. If no problem is found, consult your local dealer. Change channel
Signal strength	0	©ok Note
		Not available if "Cable" is selected in "ANT in"
Current 30% —	Signal intensity	(see above).
Peak level 45%		Available only for digital antenna channels.

Closed Caption



- Background: Color of text box
- Back opacity: Opacity of text box
- Outline: Outline color of text (Identify the setting options on the screen.)

To reset the settings Select "CC reset" and press OK

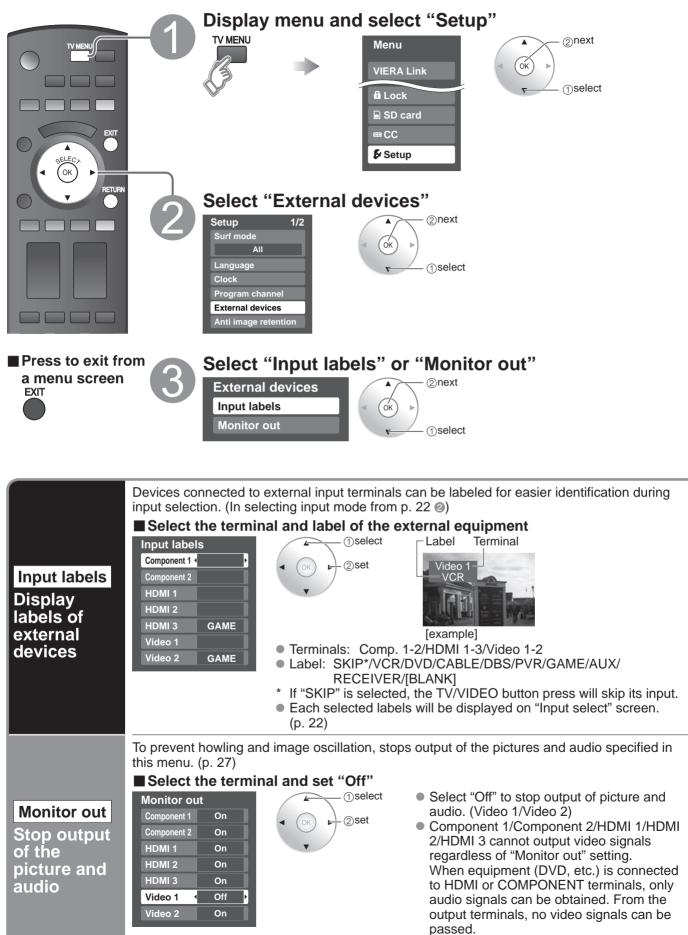
Automatic

Fore opacity Automatic

Background Automatic Back opacity Automatic

Outline

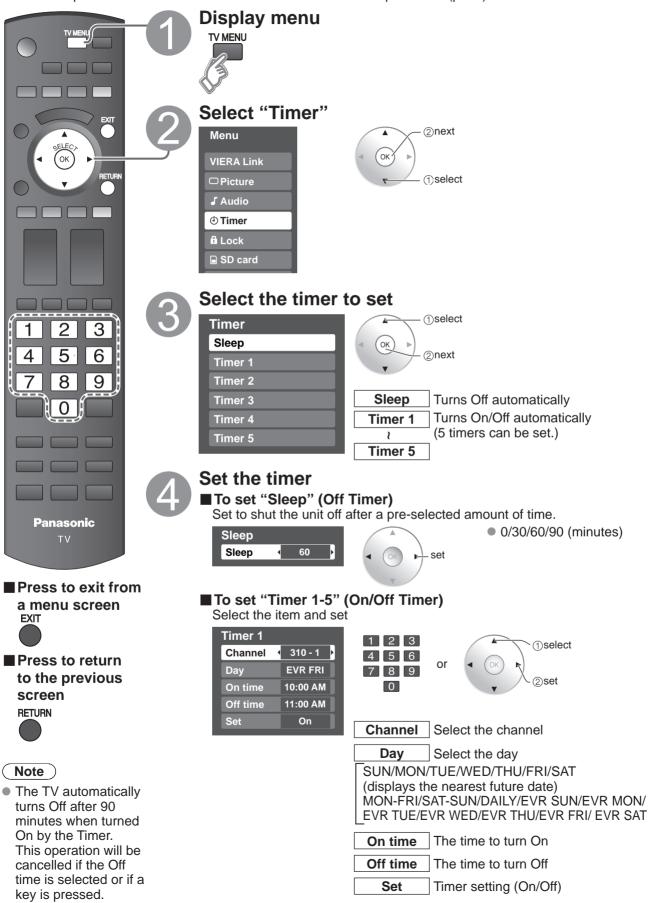
Input Labels/Monitor Out



Using Timer

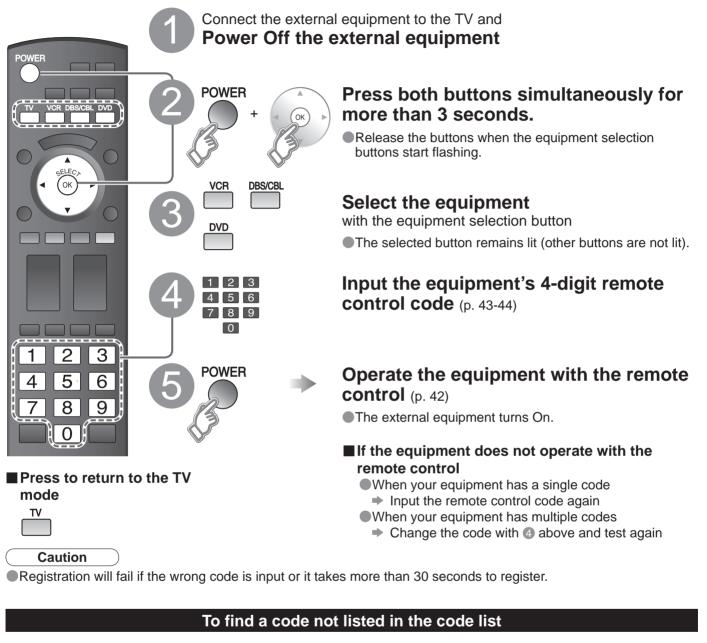
The TV can automatically turn On/Off at the designated date and time.

- The Clock must be set before On time/Off time settings. (p. 16)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 27) is set.



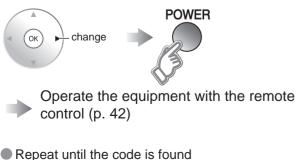
Programming the Remote to Operate Peripheral Equipment

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
 B above, change the code and test



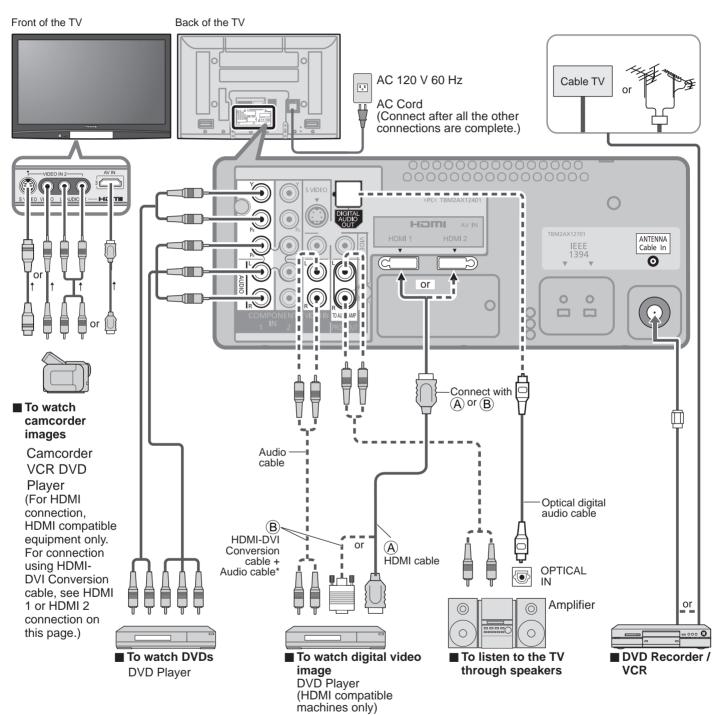
 It may take many attempts before the correct code is found

(2) When the correct code is found



Recommended AV Connections

These diagrams show our recommendations 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



Note

 The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 37) cannot be output from "PROG OUT" terminals.

However, audio output can be obtained from "DIGITAL AUDIO OUT" terminal.

- To prevent howling and image oscillation, set the "Monitor out" setting when connecting the VCR with loop-connection. (p. 26, 37)
- When equipment (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. 24-25 for setup when using an external analog audio cable with an HDMI to DVI cable.

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

Optional HDMI and/or optical cables are not included.

(Note)

HDMI 1 is recommended.

When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 22) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 28-31).

Connecting this unit to the DVD recorder (DIGA), RAM theater. or Plaver 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

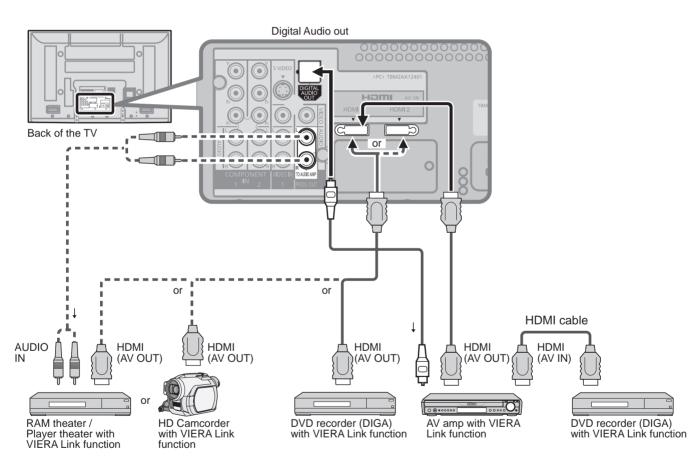
If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off

Player theater playback operate.

and On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment)

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

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



- One AV amp and one DVD recorder (DIGA) can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 23, 28-29).

Note

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

Remote Control Operation/Code List

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

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

Note

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

■ Remote Control Operation List

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

		DBS/CE		
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	Functions
EXIT	_	Exit	Exit	_
SFLECA	_	Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left
 ◆SLEC, ◆K ▼ 	-	Select	Select	Enter
	-	Guide	Guide	Sub Menu
RETURN	-	PPV/VOD	PPV/VOD	Return
R	-	Red	A	Red
G	-	Green	В	Green
B	-	Blue	С	Blue
Y	-	Yellow	D	Yellow
~ 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)
V PAGE A	-	Page Down/Up	Page Down/Up	Skip Reverse/Forward
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

Remote Control Code List

Brand	verter (C) (Brand	Code	Brand	Code	Brand	Code
Brand BC	0003, 0007, 0008	Brand Hytex	0007	Philips	0317, 1305	Brand Supercable	0276
DB	2092	i3 Micro	1602	Pioneer	0144, 0533, 0877, 1877	Supermax	0883
nericast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Pulsar	0000	Thomson	1256
nino	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012, 0059
I 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
ntec	0019	Multitech	0883	Runco	0000	United Artists	0007
olmax	0883	Myrio	1602, 1822	Samsung	0144	V2	0883
60	1187	Oak	0007, 0019	Scientific Atlanta	0008, 0477, 0877, 1877	Viewmaster	0883
ector	0476	Optimus	0021	Sejin	1602	Vision	0883
neral Instrument	0003, 0276, 0476, 0810	Pace	0008, 0237, 1877	Sony	1006	Vortex View Zenith	0883 0000, 0525, 0899
ldStar mlin	0009, 0273	Panasonic Paragon	0000, 0021, 0107, 0623	Sprucer Starcom	0021	Zenith	0000, 0525, 0899
	099/09	Falagoli	0000	Starcom	0003		
able/PVR	Combination (C) (🚞)					
ericast	0899	Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
ino	1822	Motorola	0810, 1106, 1187, 1376	RCA	1256	Thomson	1256
80	1187	Myrio	1822	Scientific Atlanta	0877, 1877	Zenith	0899
neral Instrument	0810	Pace	0237, 1877	Sony	1006		
atellite Re	eceiver (S) (🚞)						
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
parral	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, 0749, 0819, 1076, 1108, 1109, 1142,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
	1189, 1377, 1392, 1414, 1442, 1443,	HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1189, 1786	Toshiba	0749, 0790, 1285, 1749
	1444, 1609, 1639, 1640, 1749, 1856	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Pansat	1807	UltimateTV	1392, 1640
Network Sunte-	0.0775 1005 1170 1505 1775		1781 1790	Paysat	0724	Ultrasat	1806
Network System	n 0775, 1005, 1170, 1505, 1775 0775, 1005, 1505, 1775	Humax	1781, 1790 1535	Philips	0099, 0722, 0724, 0749, 0856, 1076, 1142, 1442, 1749	Uniden US Digital	0722, 0724
ostar	0775, 1005, 1505, 1775	Janeil	0152	Proscan	0392, 0566	USDTV	1535
ressvu	0775, 1005, 1170, 1505, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
ec Star	1821, 1948	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
			1220, 1111	riddioendol	0000	Loniar	1010, 1000
	Combination (S) (🚞)						
ExpressVu	0775, 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
ecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
		Hughes Network Systems	1142, 1442, 1443, 1444	Proscan	0392	Tivo	1142, 1442, 1443, 1444
n Network System	n 0775, 1505 0775, 1505	JVC	1170	RCA	1392	Zenith	1810
	0775, 1505 /CR	JVC	1170	Samsung	1442		
CR (V) ()			_		_	
6	1972	GE	0035, 0060, 0202, 0240, 0761, 0807,	Multitech	0000, 0072	Sanyo	0046, 0047, 0104, 0159, 0240
urian	0000		1035, 1060, 2613	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
miral	0048, 0209	Go Video	0432, 0526, 0614, 0643, 1137	Nikko	0037	Sears	0000, 0035, 0037, 0042, 0046, 0
rentura	0000	GoldStar	0037, 0038, 1137, 1237	Nikon	0034		0104, 0105, 1237
D	0278	Gradiente	0000	Niveus Media	1972	Sharp	0048, 0807, 0848
a	0000, 0037, 0124, 0307, 0468	Harley Davidson	0000	Noblex	0240	Shintom	0072
ai	0041, 0061, 0106, 0175, 0242	Harman/Kardon	0038, 0075, 0081	Northgate	1972	Shogun	0240
enware	1972	Harwood	0068, 0072	Olympus	0035, 0226	Singer	0072
erica Action	0278	Headquarter Hewlett Packard	0046 1972	Onkyo Optimus	0222 0037, 0048, 0104, 0162, 0432, 0593,	Sonic Blue	0614, 0616, 1137 0000, 0032, 0033, 0034, 0035, 0
erican High	0035	HI-Q	0047	Optimus	1048, 1062, 1162, 1262	Sony	1032, 1972
a	0240	Hitachi	0000, 0041, 0042, 0089, 0105, 2613	Orion	0002. 0184. 0209. 0479. 1479	Stack 9	1972
lio Dynamics	0040	Howard Computers	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226,	STS	0042
liovox	0037, 0278	HP	1972	1 dilasonio	0227, 0246, 0378, 0485, 0614, 0616,	Sylvania	0000, 0035, 0043, 0081, 0110, 0
umark	0240	Hughes Network	0042, 0739		0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809	-)	1593, 1781
& Howell	0104	Systems			1002, 1001, 1000, 1000	Symphonic	0000, 0593, 1593
ksonic	0002, 0121, 0184, 0209, 0348,	Humax	0739, 1797, 1988	Penney	0035, 0037, 0038, 0040, 0042, 0240,	Systemax	1972
	0479, 1479	Hush	1972		1035, 1237	Tagar Systems	1972
(0037	iBUYPOWER	1972	Pentax	0042, 0105,	Tashiko	0037
on	0035, 0102	Instant Replay	0035, 0226	Philco	0035	Tatung	0041
tive Works	2167	Jensen	0041	Philips	0035, 0081, 0110, 0618, 0739, 1081, 1181	Teac	0000, 0041
/er	0081	JVC	0008, 0041, 0067, 2079	B H 1		Technics	0035, 0162, 0246
Vision	0072, 0278	KEC	0037, 0278	Pilot	0037	Teknika	0000, 0035, 0037
Vision	1137 0037, 0278, 1278	Kenwood KLH	0038, 0041, 0067 0072	Pioneer Balk Audia	0067, 1337	Thomas	0000
en	0037, 0278, 1278	KLH Kodak	0072 0035,0037	Polk Audio Presidian	0081	Tivo TMK	0618, 0636, 0739, 1337, 1996 0208, 0240
g	0072 0037, 0047, 0072, 0240	LG	1037, 1137, 2010	Presidian	0240	Toshiba	0208, 0240 0043, 0045, 0212, 0845, 1008, 1
y is Mathes	0035, 0041, 0060, 0162, 1035	Linksys	1972	Proscan	0060, 0202, 0761, 1060		1972, 1988, 1996
ernex	0240	Lloyd's	0000, 0208	Protec	0000, 0202, 0781, 1000	Totevision	0037, 0240
erPower	1972	Logik	0072	Pulsar	0039	Touch	1972
W00	0045, 0278, 0561, 0637, 1137, 1278	LXI	0037	Quarter	0046	Unitech	0240
<	0040, 0050	Magnasonic	0593, 1278	Quartz	0046	Vector	0045
	1972	Magnavox	0000, 0035, 0039, 0081, 0110, 0149,	Quasar	0035, 0077, 0162, 1035, 1162	Vector Research	0038, 0040
on	0042		0563, 0593, 1335, 1593, 1781	RadioShack	0000, 1037	Video Concepts	0040, 0045, 0061
ensia	2613	Magnin	0240	Radix	0037	Videomagic	0037
cTV	0739	Marantz	0035, 0081	Randex	0037	Videosonic	0240
ibrand	0038, 0039	Marta	0037	RCA	0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035	Viewsonic	1972
atech	0000	Media Center PC	1972		0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613	Villain	0000
trohome	0037	MEI	0035			Voodoo	1972
trophonic	0037	Memorex	0000, 0035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0307,	Realistic	0000, 0035, 0037, 0046, 0047, 0048, 0104	Wards	0000, 0035, 0042, 0047, 0048, 0 0072, 0081, 0149, 0212, 0240
erex	0032		0048, 0104, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262	Photo I and a		14/1 14 - 144 - 17 - 1	
erson	0000, 0002, 0037, 0043, 0061, 0068, 0121, 0184, 0208, 0209, 0212, 0278,	MCA		ReplayTV	0614, 0616	White Westinghouse	
	0479, 0561, 0593, 0637, 1278,	MGA	0043, 0061, 0240	Ricavision	1972	XR-1000	0000, 0035, 0072
	1479, 1593	MGN Technology	0240,	Ricoh	0034	Yamaha	0038
	1127	Microsoft	1972	Rio	1137	Zenith	0000, 0033, 0034, 0039, 0209, 0 0637, 1137, 1139, 1479
	1137	Mind	1972	Runco	0039	ZT Group	1972
er	0047, 0104	Minolta	0042,0105	Salora	0075		1
ai	0033, 0035 0000, 0593, 1335, 1593	Mitsubishi	0043, 0061, 0067, 0075, 0173, 0214, 0242, 0443, 0807	Samsung Samtron	0045, 0240, 0739, 1014 0643		
ai			0035, 0048	Sanky	0039, 0048		
rard	0000	Motorola					

Remote Control Operation/Code List (Continued)

Remote Control Code List

Brand	Combination (V)(🚞) │ Code	Brand	Code	Brand	Code	Brand	Code
recTV	0739	Hughes Network	0739	Philips	0739	Tivo	0739
		Systems		Samsung	0739		
VD-Reco	rder (V) (
gnavox	0000						
VR (V) ("	39/CBL)						
s	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
enware	1972	Systems		Panasonic	0614, 0616, 1807, 1808, 1809	Tivo	0618, 0636, 0739, 1337
ptive Works	2167	Humax	0739, 1797, 1988	Philips	0618, 0739	Toshiba	1008, 1972, 1988, 1996
berPower	1972	Hush iBUYPOWER	1972 1972	Pioneer RCA	1337 0880	Touch Viewsonic	1972
recTV	0739	LG	2010	ReplayTV	0614, 0616	Voodoo	1972
teway	1972	Linksys	1972	Samsung	0739	ZT Group	1972
Video	0614	Media Center PC	1972	Sonic Blue	0614, 0616		
wlett Packard	1972	Microsoft	1972	Sony	0636, 1972		
ward Computers	1972	Mind Niveus Media	1972 1972	Stack 9 Systemax	1972 1972		
	DVD X	Niveus ivieula	1372	Systemax	1372		
VD (Y) (Mili			
curian com	0675, 1072, 1416	Emerson Enterprise	0591, 0675, 1268 0591	Malata Marantz	0782, 1159 0539	Sampo Samsung	0698, 0752 0199, 0490, 0573, 0820, 0899,
a	0641	ESA	1268	McIntosh	1273	Samsung	1075, 1470
i	0695, 0770, 0899, 1089	Fisher	0670	Memorex	0695, 0831, 1270	Sansui	0695
)	0790	Funai	0675, 1268, 1334	Microsoft	0522, 1708, 2083	Sanyo	0670, 0695, 0873
gro	0869	Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science	1158
phion Media Wor		GE	0522, 0717, 0815	Mitsubishi	0521, 1521	Sharp	0630, 0675, 0752, 1256
W Digital	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158,	Momitsu NAD	1082	Sharper Image	1117
ex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		1304, 1730	NAD	0692, 0741 1222	Sherwood Shinsonic	0633, 0770, 1043, 1077 0533, 0839
jo	1023	Go Vision	1072	NEC	0785	Sigma Designs	0674
ire Digital	1168, 1407	GoldStar	0741	Nesa	0717	Sonic Blue	0869, 1099
ar	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony	0533, 0864, 1033, 1069, 1070, 1432, 1433, 1516, 1533, 1536,
liologic	0736	Greenhill	0717	NexxTech	1402		1432, 1433, 1516, 1533, 1536, 1791, 1824, 1892, 1903, 1904
diovox	0790, 1041, 1072, 1121, 1122	Harman/Kardon	0582, 0702	Norcent	0872, 1003, 1107, 1265		1981, 2020, 2043
on .K	1072	Helios	2080	Nova	1517	Cause	4400
r. (0655, 0662	Hello Kitty Hitachi	0831 0573, 0664, 1247	Onkyo Oppo	0503, 0627, 0792, 1769 0575, 1224 1525	Sova Sungale	1122
Canto Design	1571	Hiteker	0672	OptoMedia Electronics		SVA	0860, 1105
upunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
e Parade	0571	iLo	1348, 1472	Panasonic	0458, 0490, 0632, 0703, 1010, 1011,	Symphonic	0675
ksonic	0695, 1419	Initial	0717, 1472		1362, 1462, 1464, 1490, 1641, 1762, 1907, 1908, 1909, 1910, 1925, 1986,	TAG McLaren	0894
/S	1057	Insignia	1268, 2095		1990, 2017, 2060, 2061, 2062	Teac	0790
ea	0831 1399	Integra	0627	Philco	0675	Technics Technosonic	0490, 0703 0730
iego ieVision	0833, 0869, 0876	Jaton JBL	1078 0702	Philips	0503, 0539, 0646, 0675, 1267, 1340,	Techwood	0692
zen	0695, 1277, 1587, 2116	JSI	1423	1 mipo	1354, 2056, 2084	Terapin	1031
ру	0778, 0852, 1086, 1107, 1165, 1177,	JVC	0558, 0623, 0867, 1164, 1275,	Pioneer	0142, 0525, 0571, 0631, 0632, 1571	Theta Digital	0571
	1351, 1628		1550, 1602	Polaroid	1020, 1061, 1086, 1245, 1316,	Tivo	1503
aig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1608, 1769, 1854
rtis Mathes	1087	Kawasaki	0790	Polk Audio	0539	Teader	
berHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537	Kenwood KLH	0490, 0534, 0682 0717, 0790, 1020, 1149	Portland Presidian	0770 0675, 1072	Tredex Urban Concepts	0799, 0800, 0803, 0804 0503
W00	0705, 0784, 0833, 0869, 1169, 1172,	Konka	0711, 0721	Princeton	0674	US Logic	0839
	1234, 1242, 1441	Koss	0651, 0896, 1423	Proscan	0522	Venturer	0790
ion	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
say	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
mond Vision	1316	Lenoxx	1127	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox	0522, 1708, 2083
ney al	0675, 1270 1068, 1085	LG LiteOn	0591, 0741, 0869 1058, 1158, 1416, 1440, 1656	Rio	0869	Xwave Yamaha	1001 0490, 0497, 0539, 0545
al abrand	1068, 1085	LiteOn	0511	RJTech	1360	Zenith	0490, 0497, 0539, 0545 0503, 0591, 0741, 0869
D2000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
ctrohome	2116		1472, 1506	Rowa	0823		
VD-Reco	rder (Y) (·		
curian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432,
ex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340	_0,	1433, 1536
ire Digital	1168	Go Video	0741, 1158, 1304, 1730	Pioneer	0631	Sylvania	0675
ksonic	1419	iLo	1348	Polaroid	1086, 2130	Toshiba	1588
zen	2116	JVC	1164, 1275	RCA	0522	Zenith	0741
y ad lama	1086	LG	0741	Samsung	0490, 1470		
erHome ctrohome	1129, 1502 2116	LiteOn Magnavox	1158, 1416, 1440 0646, 0675, 1506	Sensory Science Sharp	1158 0675		
		WaynavuX	0040,0073,1300	onaip	0013		
lu-ray Dis							
	0741	Philips	2084	Samsung	0199		
nasonic	1641, 2061, 2062	Pioneer	0142	Sony	1516		
D-DVD (Y	()()						
	0741	Onkyo	1769	RCA	1769	Toshiba	1769
TiB (Y) (
a	0641	Panasonic	0458, 1779, 1907, 1908, 1909, 1910,	Rio	0869	Teac	0790
	0790		1925, 1990, 2017	Sherwood	1077	Toshiba	1854
liovox							
diovox H	0790	Philips	1267 0539	Sonic Blue	0869 1824, 1892, 1903, 1904, 1934, 1981,	Venturer	0790 0497

Ratings List for Lock

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

U.S. MOVIE RATINGS (MPAA)

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

■U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	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 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.

0

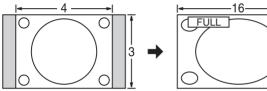
 If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

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. 19)

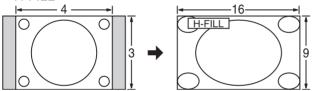
(e.g.: in case of 4:3 image)

FULL



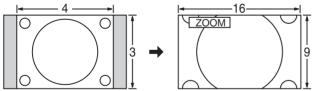
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

• H-FILL



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

ZOOM



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

Zoom adjust

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

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



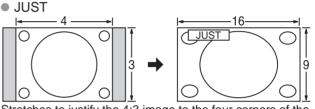


To reset the aspect ratio



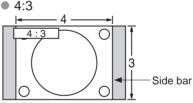






Stretches to justify the 4:3 image to the four corners of the screen.

(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
C C	* 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

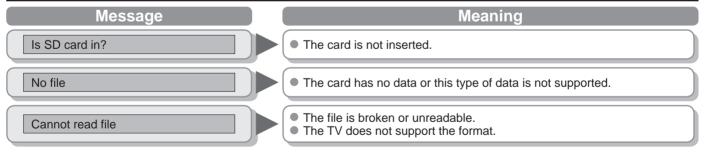
DÇIM	-Created automatically
100_PANA	-3-digit folder number + 5-digit arbitrary characters
	 4-digit arbitrary characters + 4-digit file number Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
The following of the management of	a different depending on the digital company used

- The folder and file names may be different depending on the digital camera used.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.co.jp/pavc/global/cs (This site is in English only)

Cautions in handling SD Card:

- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to 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



Technical Information (Continued)

VIERA Link "HDAVI Control™"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 28)
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link is available for the terminal with the smaller number.
- If you connect equipment that has "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 DVD player, can be connected to the HDMI connector using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 24) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

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

Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see below.

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.
- Game: For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 37)
 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 40-41 for more information.

Side Bar					
 Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field. To reduce the risk of such "Image retention", change the brightness of the side bars. See pages 26-27 for more information. The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (See below). 	↓ Side Bar ↓ 4:3 Screen Display ↓	<pre>Filmage retention Filmage retention Filmage</pre>			
Scrolling bar					
Scrolling bar: To prevent "Image retention", scrolls white horizontal bar from top to b screen.	[Scrolling bar]				

- Press any key except the POWER key to return to previous screen.
- You will return to the previous screen if any key operation has not been performed for 15 minutes. See pages 26-27 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

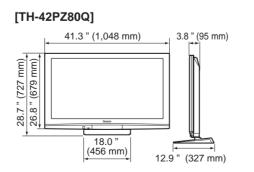
Cleaning

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.)

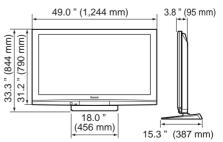
• Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

Specifications

			TH-42PZ80Q		TH-50PZ80Q	
Power Source		AC 120 V, 60 Hz				
Power Consu	Maximum	583 W	83 W		700 W	
Power Consumption	Standby condition	0.2 W (With CableCARD : 30.0 W)			0.2 W (With CableCARD : 34.0 W)	
Plasma Display panel	Drive method	AC type				
	Aspect Ratio	16:9				
	Visible screen size	42 " class (41.6 inches measured diagonally)		onally)	50 " class (49.9 inches measured diagonally)	
	(W × H × Diagonal)	36.2 " × 20.4 " × 41.6 " (922 mm × 518 mm × 1,057 mm)			43.5 " × 24.4 " × 49.9 " (1,106 mm × 622 mm × 1,269 mm)	
	(No. of pixels)	2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]				
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)				
Channel Capability (Digital/Analog)		VHF/ UHF: 2 - 69, CATV: 1 - 135				
Operating Conditions		Temperature: Humidity:	32 °F − 104 °F (0 °C − 40 °C) 20 % − 80 % RH (non-condensing)			
Connection Terminals	VIDEO IN 1-2	VIDEO: S-VIDEO: AUDIO L-R:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω) Mini DIN 4-pin Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω) RCA PIN Type × 2 0.5 V [rms]			
	COMPONENT INPUT 1-2	Y: Pb, Pr: AUDIO L-R:	1.0 V [p-p] (including synchronization) ±0.35 V [p-p] RCA PIN Type × 2 0.5 V [rms]			
	HDMI 1-3	TYPE A Connector × 3 This TV supports "HDAVI Control 3" function.				
ern	IEEE1394	IEEE 1394 Standard, 4pin , S400 ,MPEG2-TS				
lin	Card slot	SD CARD slot ×	SD CARD slot × 1, CableCARD slot × 1			
als	AV PROG OUT	VIDEO: AUDIO L-R:	RCA PIN Type × 2	RCA PIN Type x 1		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic				
FEATURES		3D Y/C FILTER V-Chip Photo viewer	CLOSED CAPTION CableCARD slot HDAVI Control 3 tru2way-ready TV		ready TV	
Dimensions (W×H×D)	Including pedestal	41.3 " × 28.7 " × 12.9 " (1,048 mm × 727 mm × 327 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)			49.0 " × 31.2 " × 3.8 " (1,244 mm × 790 mm × 95 mm)	
	Including pedestal	70.6 lb. (32 kg)	70.6 lb. (32 kg)		90.4 lb. (41 kg)	
Mass	TV Set only	66.1 lb. (30 kg)			86.0 lb. (39 kg)	



[TH-50PZ80Q]



Note

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

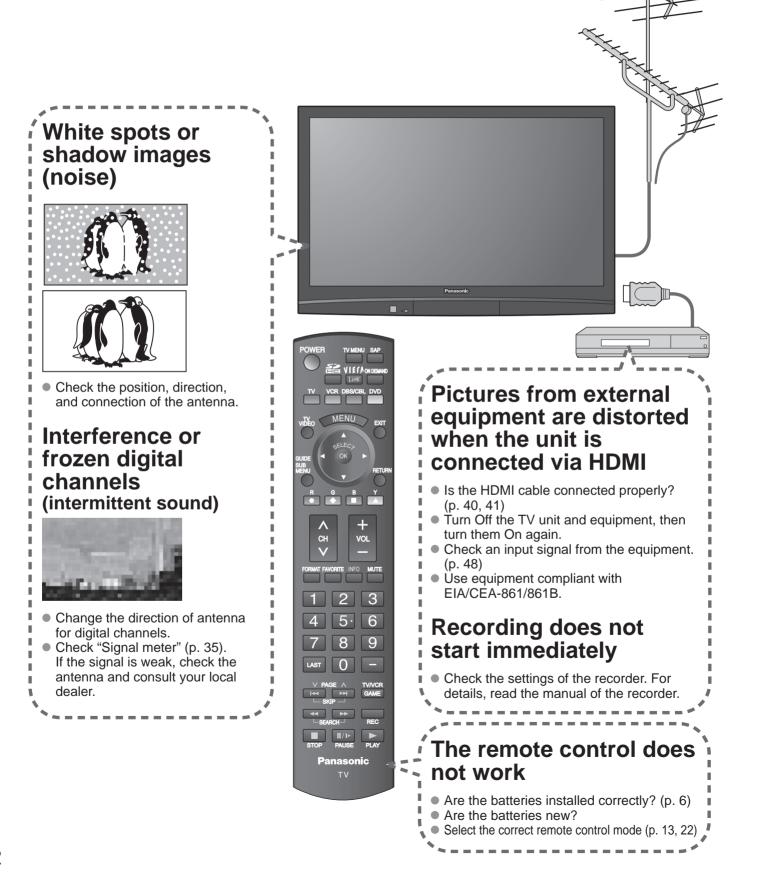
FAQs, etc.

FAQ

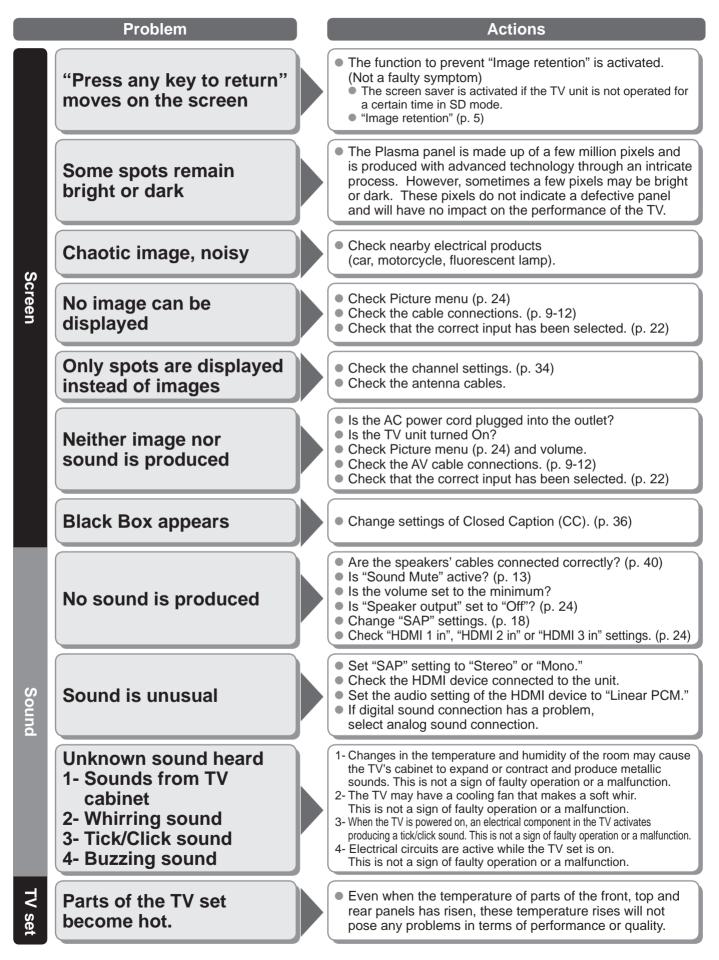
Before requesting service or assistance, please follow these simple guides to resolve the problem.

If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 55)

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



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).



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FAQs, etc.

Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

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

Customer Services Directory

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Service in Puerto Rico

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

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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A.

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