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

Model Number	Serial Number

Anotación del cliente

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

Modelo	Número de serie

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

Panasonic Puerto Rico, Inc. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

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

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Panasonic

Operating Instructions 42"/46"/50" Class 1080p Plasma HDTV (41.6/46.0/49.9 inches measured diagonally)

Manual de instrucciones

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

Número de modelo

Model No. de modelo TH-42PZ85U **TH-46PZ85U TH-50PZ85U**

Quick Start Guide

(See page 6-15)

Guía de inicio rápido

(vea la página 6-15)

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







VIECA LINK

English

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

Español

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

TQB2AA0773

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Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement





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VIECA Link**

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EZ Sync™

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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.



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

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

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- 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.
- 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 a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

FCC Caution:

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

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

Panasonic Corporation of North America Responsible Party:

One Panasonic Way, Secaucus, NJ 07094

Contact Source: Panasonic Consumer Electronics Company

1-888-VIEW-PTV (843-9788) email: consumerproducts@panasonic.com

CANADIAN NOTICE:

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

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

WARNING/CAUTION

№ WARNING

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.

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

Doing so may cause the Plasma TV to overheat, which can cause instability which could result in the possibility of injury. (All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

Wall-hanging bracket (Vertical) TY-WK42PV4W

Wall-hanging bracket (Angled) TY-WK42PR4W

Always be sure to ask a qualified technician to carry out set-up. • Two or more people are required to install and remove the television. If two people are not present, the television may be dropped, and personal injury may result.

Transport only in upright position!

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

■ AC Power Supply Cord

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

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

The included power cord is for use with this unit only. Do not use any power cord other than that provided with this TV Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

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

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

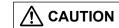
■ If problems occur during use

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

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

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

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



Do not cover the ventilation holes.

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

• 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. 51)

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

Accessories/Optional Accessory

Accessories

✓ Check you have all the items shown.

Accessories

- ☐ Remote Control Transmitter N2QAYB000220
- ☐ AC cord



- ☐ Operating Instructions
- ☐ Quick Setup Guide (For viewing HD programming)

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



☐ Cable clampers (2)

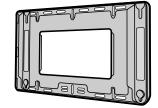
☐ Cleaning cloth

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

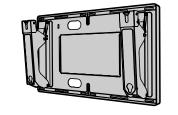
How to assemble (p.7)

- ☐ Product Registration Card (U.S.A.)
- ☐ Customer Care Plan Card (U.S.A.)

Optional Accessory



Wall-hanging bracket (vertical) TY-WK42PV4W

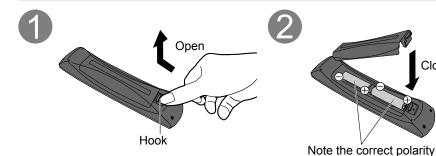


(angle) TY-WK42PR4W

Note

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

Installing the remote's batteries



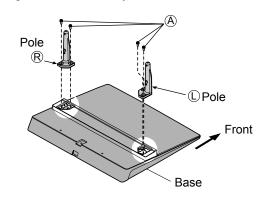
Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries. Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39)

Attaching the pedestal to TV

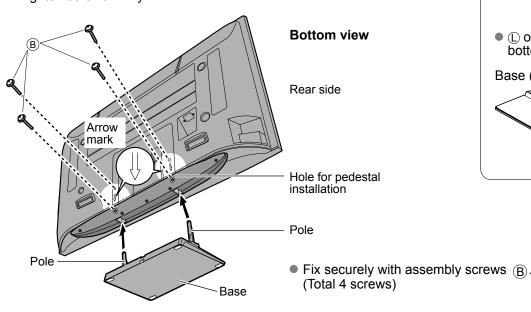
Assembling the pedestal

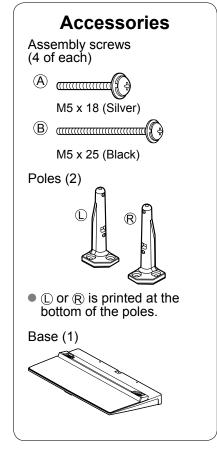
- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



■Set-up

- Carry out work on a horizontal and level surface.
- Tighten screws firmly.





Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

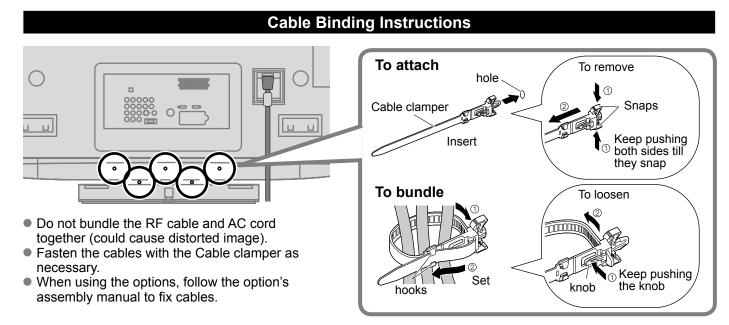
Do not use the pedestal if it becomes warped or physically damaged.

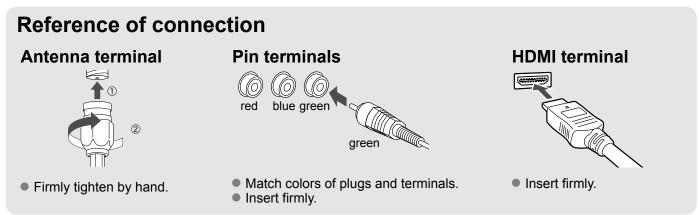
• If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

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

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

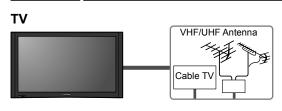
Accessories/Optional Accessory (Continued)



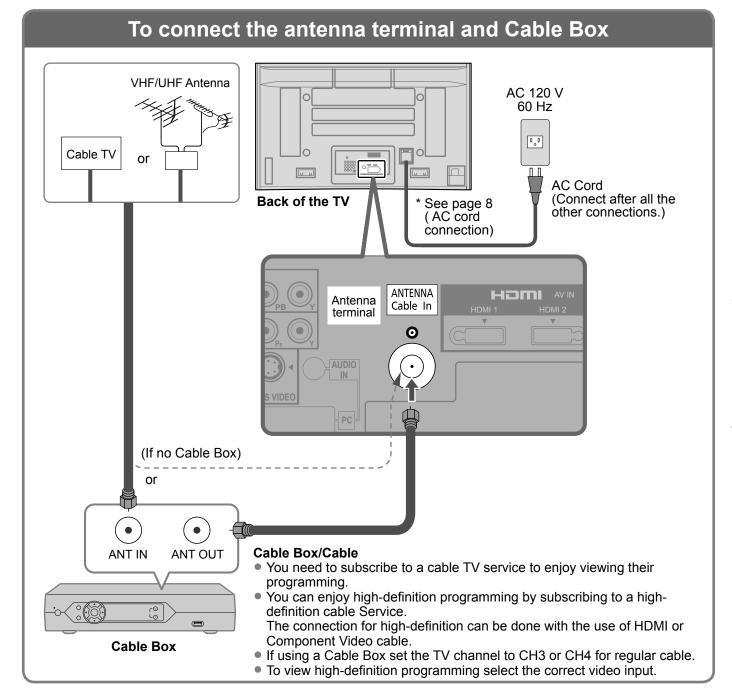


Basic Connection

Example 1 Connecting Antenna (To watch TV)



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



Note

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

www.panasonic.ca

Basic Connection (Continued)

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

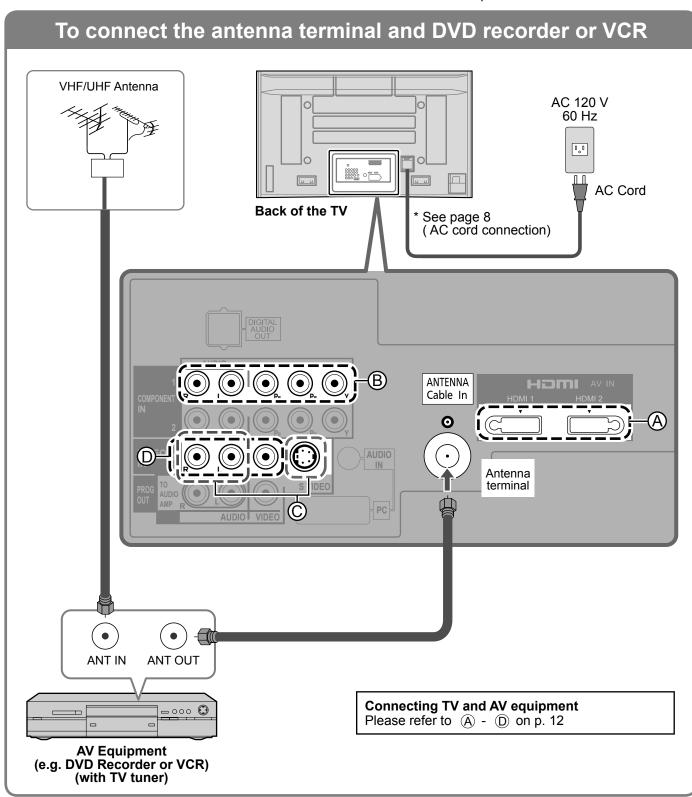


DVD Recorder

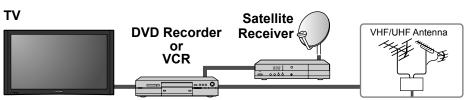
If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable.

VCR

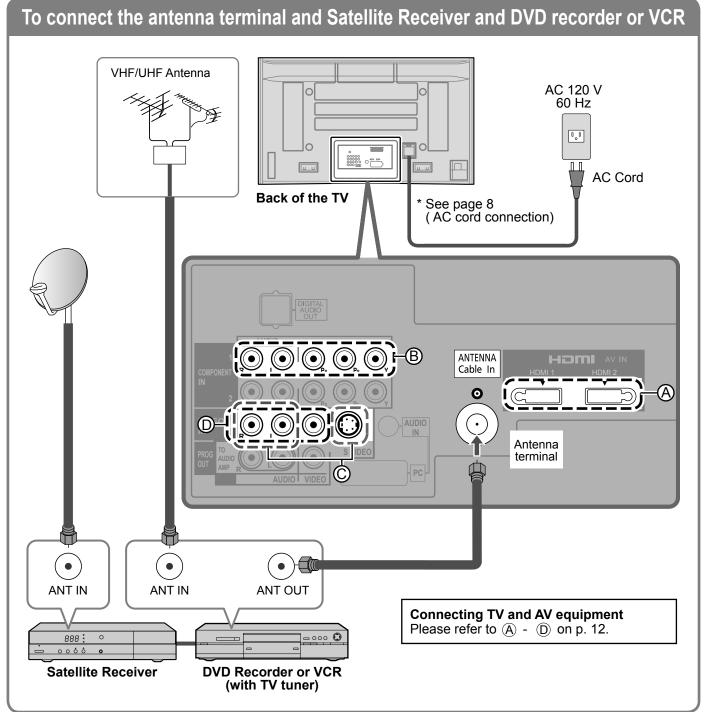
Connection can be done with the use of an RF cable and Composite Video/S Video cable.



Example 3 Connecting DVD recorder (VCR) and satellite receiver



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



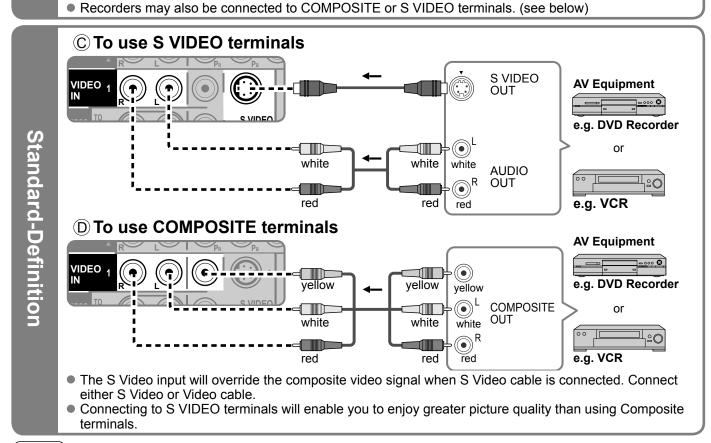
Note

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

13

Basic Connection (Continued)

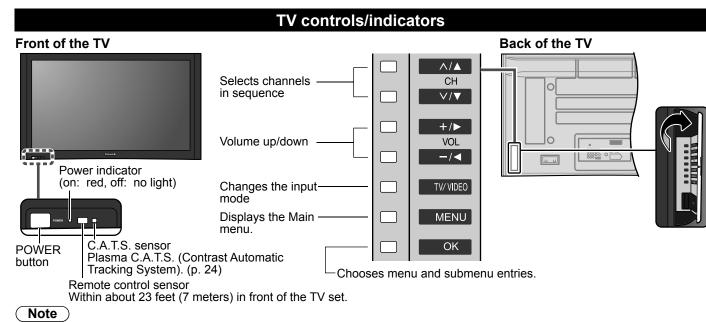
AV cable connections **(A)** To use HDMI terminals **AV** Equipment HDM AV IN HDMI **AV OUT** e.g. DVD Recorder Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality **High-Definition** For "VIERA Link™ connections", please refer to p. 41. **B** To use COMPONENT terminals white white red red **AV** Equipment green green e.g. DVD Recorder PB COMPONENT blue blue blue red red



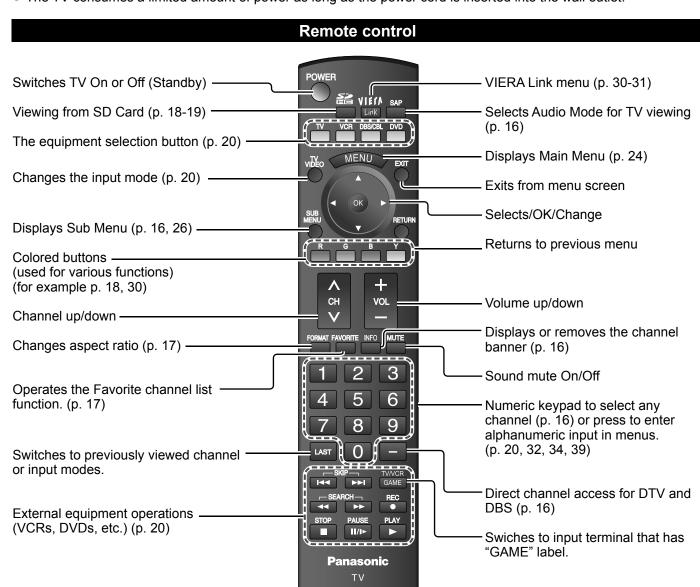
Note

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

Identifying Controls

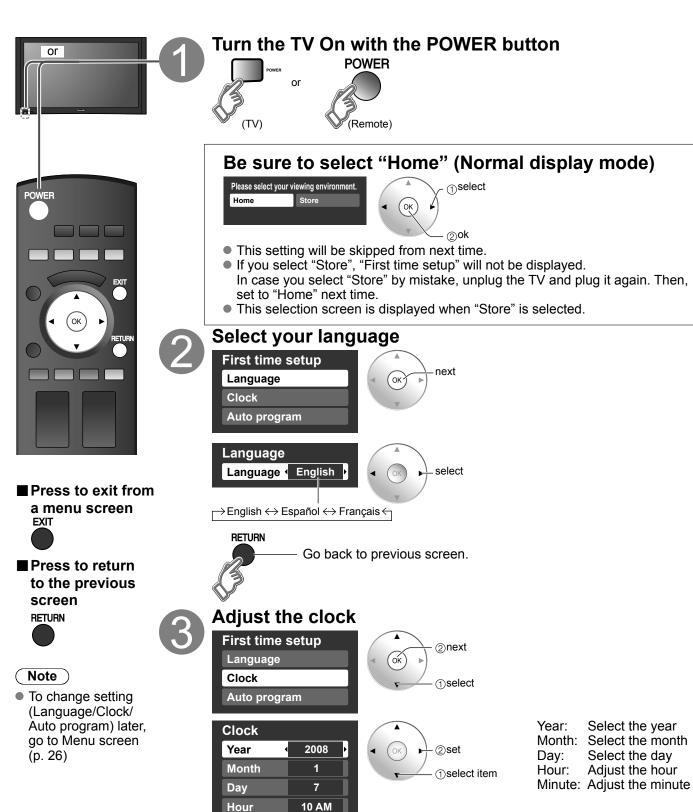


The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.



First Time Setup

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



10

Go back to previous screen.



■ Press to exit from a menu screen

Auto channel setup

1 Select "Auto program"



② Select "ANT in"

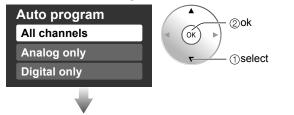


ANT in
Cable: Cable TV
Antenna: Antenna

③ Select "Auto"



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



Auto program

Progress 8%

Namber of analog channels 10

Namber of digital channels 0

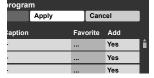
Press RETURN to quit.

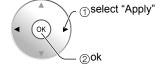
Start scanning the channels

Available channels (analog/digital) are automatically set.

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

(5) Confirm registered channels





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

(Note)

About broadcasting systems

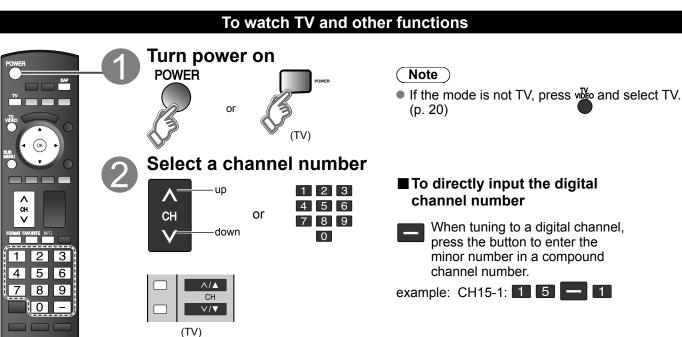
Analog (NTSC): Conventional broadcasting

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

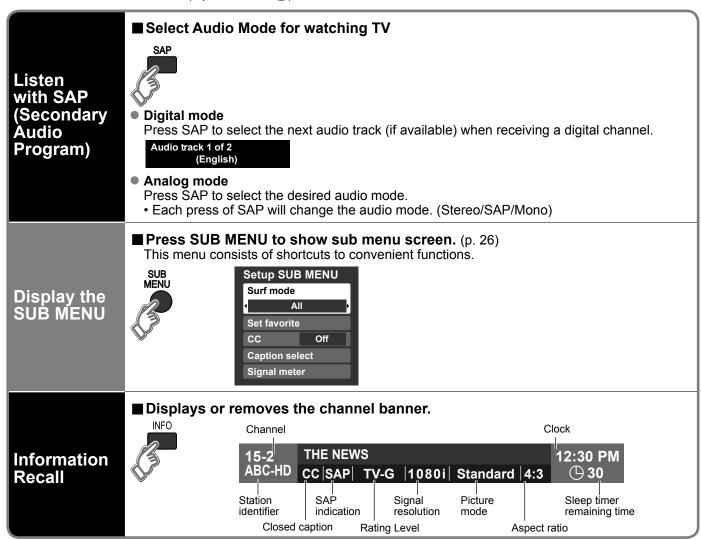
featuring high-quality video and sound

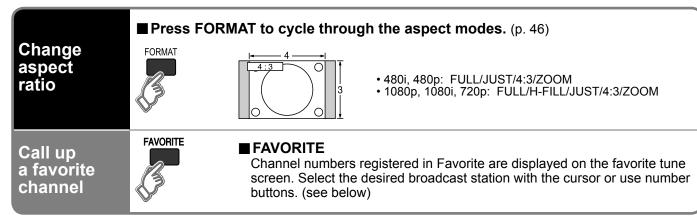
Watching TV

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



■ Other Useful Functions (Operate after ②)





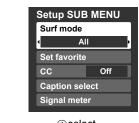
(Note)

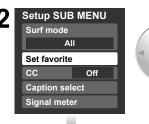
- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 35)
- The channel number and volume level remain the same even after the TV is turned off.

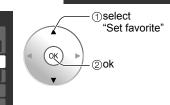


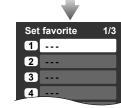




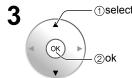






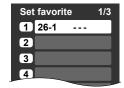


Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).



Press ▲ ▼to highlight a position on the list.

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

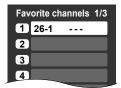


- You can also use the NUMBER buttons (1-9 and 0) to select a list number (1-9 and 0). By doing so, the displayed channel will be saved on that list number without pressing OK.
- To delete a favorite channel A saved channel can be removed from the list by holding down OK while its position is highlighted.
- To change the page





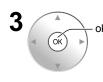
Press FAVORITE. • Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).





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

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



Press OK to display the highlighted channel.

Viewing from SD Card

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





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

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

SD card setting
Play SD card automatically
On
Play SD card now

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

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

automatically from next time.

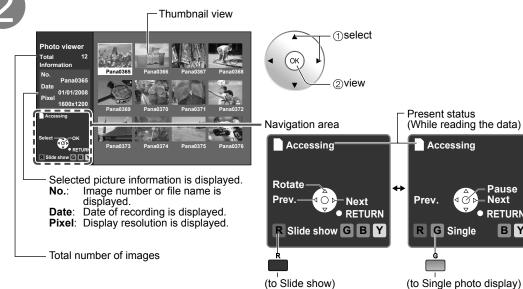
Off: The data can be played manually.

Press the SD key or select "SD card" on the Menu.

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



Select the data to be viewed



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

■ Press to exit from a menu screen



■ Press to return to the previous screen
RETURN



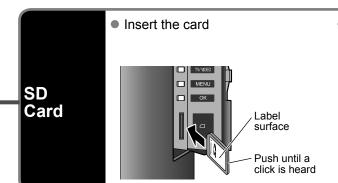
(Note)



Displays one at a time
Navigation area



To display/hide Navigation area →



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



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

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

■To setup the slide show mode In ② or ③

Display "Photo menu"



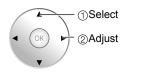
Select "Setup slide show"



①select
"Setup slide show"
②ok

3 Select the item and adjust





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

Repeat Turn the slide show Repeat function On or Off.

Note

- For large image sizes, the display time will be longer than the number of seconds set.

■To adjust picture In ② or ③

■ Display "Photo menu"



9 Select "picture"



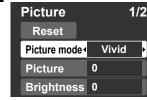
①select "Picture" ②ok

3 Select the item



select

4 Adjust or select





21

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)

1 2 3

4 5 6

7 8 9

0 |

[Idd | ▶▶| GAME

— SEARCH — REC

Panasonic

TV

■ To return to TV

VIDEO → 1

For details, see

the manual of the equipment.

(Note)

20

| ▶

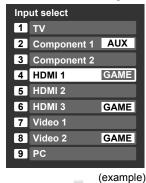
■ II/I≻

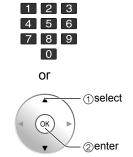
With the connected equipment turned On

Display the Input select menu



Select the input mode

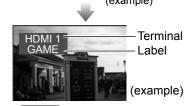




Press corresponding NUMBER button on the remote control to select the input of your choice.

Select the input of your choice, then press OK.

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



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

Note

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

■ Press Game to switch to the game screen Switches to Input terminal that has "GAME" label.



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

	HDMI 1	GAME
le		<u> </u>
	HDMI 3	GAME
_	Video 2	GAME
٢		

Select the remote control mode

Press the key to select

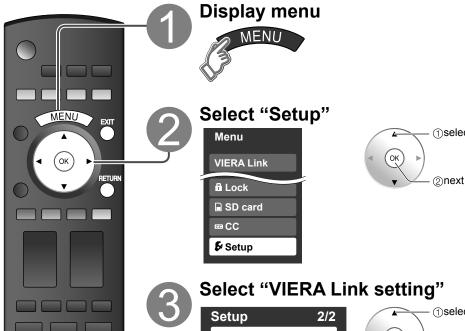
Operate the connected equipment, pointing TV's remote control at the equipment.

					(example)
	VCR MODE	DVD MODE		VCR MODE	DVD MODE
REC	VCR Record	Record	STOP	Stop	Stop
SKIP—	_	Skip Reverse/ Forward	PAUSE II/I>	Pause	Pause
- SEARCH	Rewind/Fast Forward	Reverse/Forward	PLAY	Play	Play

(For other operations, see p. 42)

VIERA Link™ Setting

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



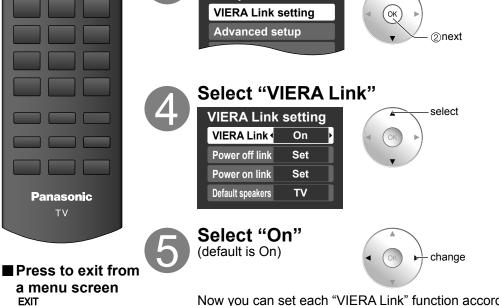
Now you can set each "VIERA Link" function according to your preference (p. 28-31)

■ Press to return to the previous screen

RETURN

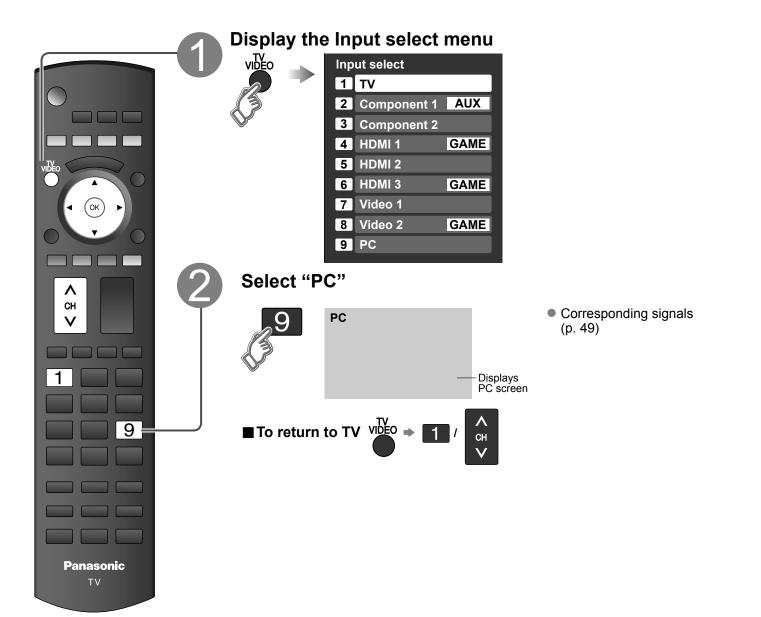
Note

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



Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 40)



■ PC menu setting (change as desired)

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

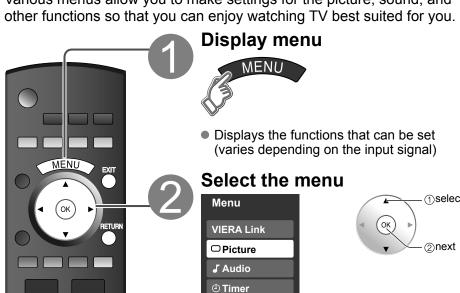
Menu	ı İtem		Adjustments/Configurations (options)		
		Reset	Resets PC adjust		
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 49) On G: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 49) 		
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.		
		H-position	Adjusts the horizontal position.		
Picture	PC adjust	V-position	Adjusts the vertical position.		
U		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.		
		Input resolution	Switches to wide display. Input signal switched from VGA to WVGA Input signal switched from XGA to WXGA		
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz		

Audio menu (p. 24)

[•] For PC input, only audio signals can be output from PROG OUT terminals.

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and



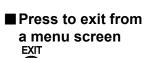
∄ Lock

CC

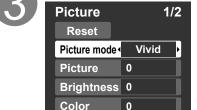
Setup

■ SD card









Picture

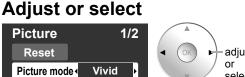
Tint

Brightness 0

Sharpness 0

(example: Picture menu)

0



(example:	Picture	menu

0

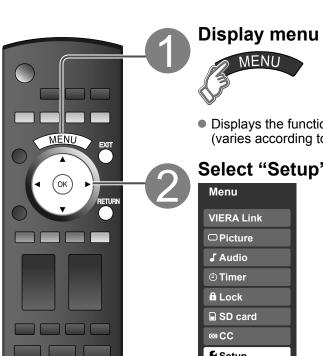
■ Menu list Menu Item Record now Stop recording VIERA Link control Speaker output Reset Picture mode Picture, Brightness, Color, Tint, Sharpness Color temp. Color mgmt. x.v.Color C.A.T.S. Zoom adjust PC adjust Video NR 3D Y/C filter **Color matrix MPEG NR Black level HD Size** Reset **Bass** Treble Balance Al sound **Audio** Surround **Bass boost** Audio leveler Speaker output HDMI 1 in HDMI 2 in HDMI 3 in Timer Sleep, Timer 1-5 Lock SD SD card Card

CC CC

Adjusts color, brightness, etc. for each picture mode to suit your taste Display range Picture/Brightness/Color/Sharpness: 0 - 100 Color Display range Picture/Brightness/Color/Sharpness: 0 - 100 Color Display range Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool/Normal/Warm) Color temp. Color reproduction, especially outdoor scenes. (On/Off) Auto: Provide the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI or component input of this TV. (Off/Auto) Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On) CA.T.S. Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46) Sets PC display (p. 22) Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Minimizes noise and cross-color in the picture. (On/Off) Selects image resolution of component-connected devices (HD/SD) Selects image resolution of component-connected devices (HD/SD) Selects mage resolution of component-connected devices (HD/SD) Selects mage resolution of promonent-connected devices (HD/SD) Selects mage resolution of ormponent-connected devices (HD/SD) Selects between 55 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1: Selected item for "HD size". Scanning 100% Selects between 55 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1: Selected item for "HD size". Scanning 100% Selects between 55 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1: Selected item for "HD size". Scanning 100% Selects between 55 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1: Selected item for "HD size". Scanning 100% Select Size 1: Selected item for "HD size". Scanning 100% Select Size 1: Selected item for "HD size". Scanning 100% Select Size 1: Selected item for "HD size" is selected. The default sett	Adjustments/Configurations (alter	rnatives)			
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Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 48) Adjusts color, brightness, etc. for each picture mode to suit your taste Display range Picture/Brightness/Color/Sharpness: 0 - 100 Tint: 50 - +50 Selects a choice of Cool (blue), Normal, or Warm (red) color, (Cool/Normal/Warm) Color 0 Selects a choice of Cool (blue), Normal, or Warm (red) color, (Cool/Normal/Warm) Con: Enhances green and blue color reproduction, especially outdoor scenes, (On/Off) Color 0 Color ocomponent input of this TV. (Off/Auto) Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On) Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On) Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On) Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46) Sets PC display (p. 22) Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Minimizes noise and cross-color in the picture. (On/Off) SD: Standard Definition Only 480p signal accepted; regular TV (NTSC) is not available. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Oar/Light) Selects bark or Light. Valid only for external input signals. (Oar/Light) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Selects between 95% (Size 1) on 10% (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1 Selected item for "	* * * * *			Reset	
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Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On) Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46) Sets PC display (p. 22) Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Wideo NR Minimizes noise and cross-color in the picture. (On/Off) Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition Only 480p signal accepted; regular TV (NTSC) is not available. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Tile noise is generated on the edges of the screen. Size 1: Selected litem for "HD size". Scanning 95% Size 2: Selected litem for "HD size". Scanning 95% Size 2: Selected litem for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Increases or decreases the bass response. Bass 0 Increases or decreases the reble response. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) Switch to "Off" when using external speakers (On/Off) The default setting is "Digital" for HDMI connection. (Digital input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) HDMI1 in Digital/Component 1/Component 2/Video 1/Video 2/PC) Locks the channels and programs (p. 32)		•		Color mgmt.	
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46) Sets PC display (p. 22) Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Wideo NR Minimizes noise and cross-color in the picture. (On/Off) Selects image resolution of component-connected devices (HD/SD) Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition Only 480p signal accepted; regular TV (NTSC) is not available. Reduces noise of specific digital signals of DVp, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 1: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Reset Increases or decreases the bass response. Bass 0 Increases or decreases the bass response. Balance 0 Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Surround Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Audio leveler 0 Speaker output HDMI1 in Di HDMI2 in Di HDMI2 in Di HDMI3 in Di The TV can automatically turn On/Off at the designated date and time (p. 38) Sieep Locks the channels and programs (p. 32)	Auto: Provide the appropriate picture when images corresponding to "x.v.Color" or component input of this TV. (Off/Auto)	' are input via the	HDMI	x.v.Color	Α
Sets PC display (p. 22) Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Wideo NR Minimizes noise and cross-color in the picture. (On/Off) 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. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Reset Increases or decreases the bass response. Bass 0 Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Surround Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) Locks the channels and programs (p. 32)	Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On)			C.A.T.S.	(
Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On) Wideo NR Minimizes noise and cross-color in the picture. (On/Off) 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. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) MPEG NR Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1 'if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Reset Increases or decreases the bass response. Bass 0 Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Al sound Enhances audio response when listening to stereo. (On/Off) Surround Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if 'off' is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Audio leveler 0 Speaker output The default setting is "Digital" for HDMI connection. (Digital input signal) Color matrix Size 2) Size 2) Size 2 1 Selected item for "HD Size". Scanning 100 (Digital/Component 1/Component 2/Video 1/Video 2/PC) HDMI3 in Digital/Component 1/Component 2/Video 1/Video 2/PC)	Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46)			Zoom adjust	
Minimizes noise and cross-color in the picture. (On/Off) 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. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) MPEG NR Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Increases or decreases the bass response. Bass 0 Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Switch to "Off" when using external speakers (On/Off) Switch to "Off" when using external speakers (On/Off) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) HDMI1 in Digital (Digital (Sets PC display (p. 22)			PC adjust	
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. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) MPEG NR Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Reset Increases or decreases the bass response. Bass 0 Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Switch to "Off" when using external speakers (On/Off) Audio leveler 0 Speaker output The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Locks the channels and programs (p. 32)	Reduces noise, commonly called snow. Leave it off when receiving a strong sign	nal. (Off/On)		Video NR	
SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Increases or decreases the bass response. Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Bass boost The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) Clojital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Siece Locks the channels and programs (p. 32)	Minimizes noise and cross-color in the picture. (On/Off)			3D Y/C filter	
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off) Selects Dark or Light. Valid only for external input signals. (Dark/Light) Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ Size 2) Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95% Size 2: Selected item for "HD size". Scanning 100% Resets Bass, Treble and Balance adjustments to factory default settings. Increases or decreases the bass response. Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Cloigital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	SD: Standard Definition HD: High Definition			Color matrix	:
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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 95% Resets Bass, Treble and Balance adjustments to factory default settings. Increases or decreases the bass response. Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Al sound Enhances audio response when listening to stereo. (On/Off) Surround Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Audio leveler of the default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Selects Dark or Light. Valid only for external input signals. (Dark/Light)			Black level	L
Increases or decreases the bass response. Increases or decreases the treble response. Increases the treble response.	Select "Size 1" if noise is generated on the edges of the screen. Size 1: Selected item for "HD size". Scanning 95%	ion signal. (Size 1 /	Size 2)	HD Size	si
Increases or decreases the treble response. Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) Audio leveler 0 Speaker output Speaker output The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) Cligital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Resets Bass, Treble and Balance adjustments to factory default settings.			Reset	
Emphasizes the left / right speaker volume. Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Increases or decreases the bass response.			Bass	0
Equalizes overall volume levels across all channels and external inputs. (On/Off) Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Increases or decreases the treble response.			Treble	0
Enhances audio response when listening to stereo. (On/Off) Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Emphasizes the left / right speaker volume.			Balance	0
Enhances bass sound and provides powerful sound. (On/Off) This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Equalizes overall volume levels across all channels and external inputs. (On/Off	f)		Al sound	(
This setting will not function if "off" is set in "Speaker output". Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Enhances audio response when listening to stereo. (On/Off)			Surround	
Minimizes volume disparity after switching to external inputs Switch to "Off" when using external speakers (On/Off) "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Enhances bass sound and provides powerful sound. (On/Off) This potting will not function if "off" is not in "Speaker output"			Bass boost	
Switch to "Off" when using external speakers (On/Off) • "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)				Audio leveler	0
* "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Locks the channels and programs (p. 32)					
Select audio input terminal when DVI cable is connected. (Analog audio input signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Locks the channels and programs (p. 32)				Speaker output	
(Digital/Component 1/Component 2/Video 1/Video 2/PC) The TV can automatically turn On/Off at the designated date and time (p. 38) Locks the channels and programs (p. 32)					
The TV can automatically turn On/Off at the designated date and time (p. 38) Sleep Locks the channels and programs (p. 32)	Select audio input terminal when DVI cable is connected. (Analog audio input signital/Component 1/Component 2/Video 1/Video 2/PC)	gnal)			
Locks the channels and programs (p. 32)					
Displays SD card data (p. 18-19)	(F. 2-)				
	Displays SD card data (p. 18-19)			SD card	
	· · · · · · · · · · · · · · · · · · ·				

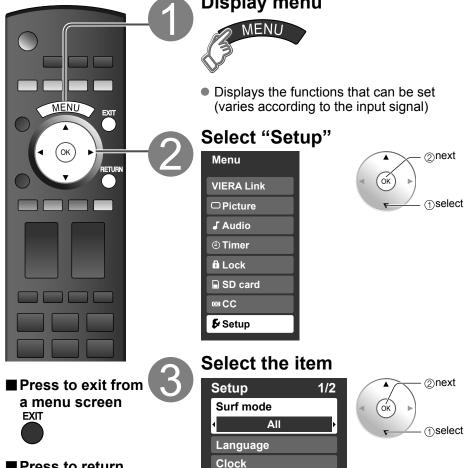
How to Use Menu Functions

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.



a menu screen **EXIT**

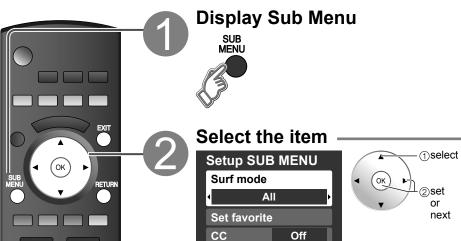




Program channel

External devices

Anti image retention



Caption select Signal meter

■ Menu list Menu Item Surf mode Language Clock **Program channel** Input labels **Monitor out Pixel orbiter** Time Side bar Scrolling bar **VIERA Link** Setup Power off link Power on link Default speakers Auto power on No signal shut-off No action shut-off Play SD card automatically

■Sub menu list

About Reset

Menu	Item	
S	Surf mode	
SUB	Set favorite	
≥ et	СС	
etup 3 MENU	Caption select	
C	Signal meter	

(Continued)

Adjustments/Configurations (alternatives)	
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) Favorite: Only channels registered as FAVORITE (p. 17)	Surf mode A
Selects the screen menu language (p. 14)	Language
Adjusts the clock (p. 14)	Clock
Sets channels (p. 34)	Program channel
Selects the terminal and label of the external equipment (p. 37)	
[Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 37) (On/Off)	
Prevent "Image retention" with Wobbling (Shifts the display image automatically.) (Automatic/Force)	Pixel orbiter Au
Sets the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time 4
Change the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 mode only) The recommended setting is "Bright" to prevent panel "Image retention". (p. 49)	Side bar Bri
Press "OK" to start horizontal "Scrolling" on the screen (p. 49)	Scrolling bar
Controls equipment connected to HDMI terminals (p. 28) (On/Off) • "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	VIERA Link 0
Sets "Power off link" of HDMI connection equipment (p. 28) (Set/No)	Power off link Se
Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No)	Power on link Se
Selects the default speakers (p. 28) (TV/Theater)	Default speakers
Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 38)	Auto power on N
To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No signal shut-off So
To conserve energy, the TV automatically turns off when no operation of remote or side panel key continues for more than 3 hours. (No/Set) Note Not in use when setting "Auto power on" or "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-o	
Set "On" to play back SD cards automatically. (On/Off)	Play SD card automatically O
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Reset

	Adjustments/Configurations (alternatives)
S	ets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only)
S	ets favorite channels. (p. 17)
D	Displays Closed Caption. (p. 36) (Off/On)
С	Changes the station identifier. (p. 35)
С	Checks the signal strength if interference or freezing occurs on a digital image. (p. 35)

VIERA LinkTM "HDAVI ControlTM"

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

VIERA Link™ is a new name for EZ Sync™

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

Connections to the equipment (DVD recorder DIGA, HD Camcorder, Player theatre, RAM theater, Amplifier, etc.) with HDMI cables allow you to interface them automatically.

The equipment with "HDAVI Control" function enables the following operations:

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

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

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

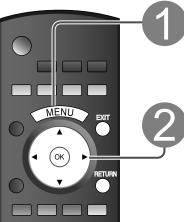
VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be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

Please refer to the individual manuals for other manufacturers' equipment supporting the VIERA Link function. For the first time / When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on.

Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 20), and make sure that an image is displayed correctly. ■HDMI cable This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.

It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG10 (3.3 ft/1.0 m) RP-CDHG15 (4.9 ft/1.5 m), RP-CDHG20 (6.6 ft/2.0 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)

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



Follow direction 1 - 5 in "VIERA Link setting" (p. 21)

Select settings VIERA Link setting VIERA Link On Power off link Set

Power on link

Default speakers ∢

Set

Set

ΤV



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

■ Press to return to the previous screen RETURN





Automatic Input Switching

Power on link

Power off

Default speakers

One-touch theater playback

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

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

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

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

When "Set" is selected (p. 26), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected.

When "Set" is selected (p. 26) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

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

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

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

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

- ① Home Theater power switches On, and playback begins.
- 2 TV power switches On, and the playback screen is displayed.
- 3 Audio is muted on the TV and switches to the theater system.

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

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

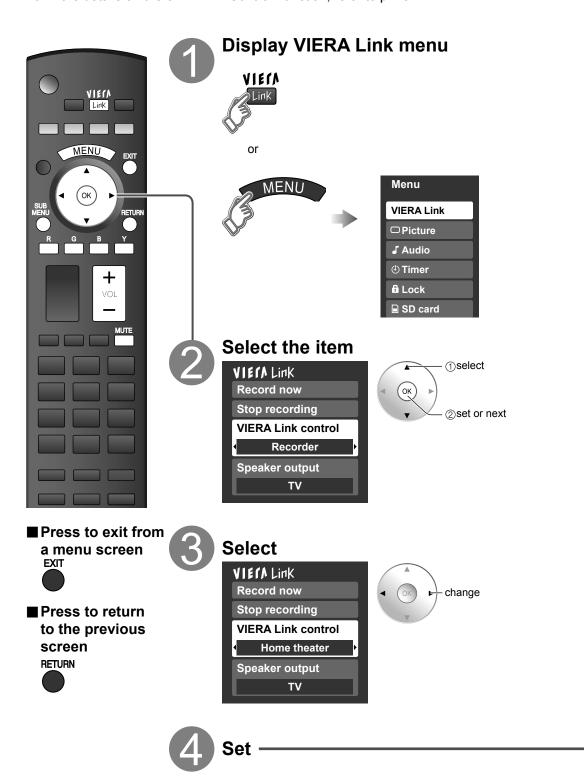
• You cannot operate other functions while transmitting TV's information above except Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting 4 Channel information).

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

VIERA LinkTM "HDAVI ControlTM"*

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link"

For more details on the of "HDAVI Control" function, refer to p. 28



(Continued)

Speaker

VIERA Link Control

only with the

TV's remote

(for "HDAVI

Control 2"

or "HDAVI

Control 3")

Direct TV

Recording

(for "HDAVI

Control 3")

control

control

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

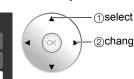
Mute **→**

- 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)





You can select available items only.

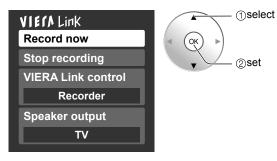
■ Available TV's remote control buttons

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

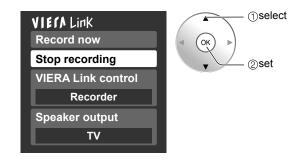
- 3 Operate the equipment with the TV's remote control, pointing it at the TV.
- To operate the equipment, read the manual of the equipment.

Records the current program on the recorder immediately.

①Select "Record now"



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



 Recording will not stop automatically when the program is finished.

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

Lock

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

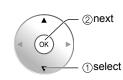


Display menu



Select "Lock"

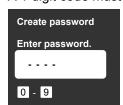




You will be asked to enter your password each time you display the Lock menu.

Input your 4-digit password

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



Lock

Mode

Program

Program

Change password

Change password

Select the item



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

■ Press to exit from a menu screen



Caution

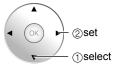
Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note

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



Select the Lock mode



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

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

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

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

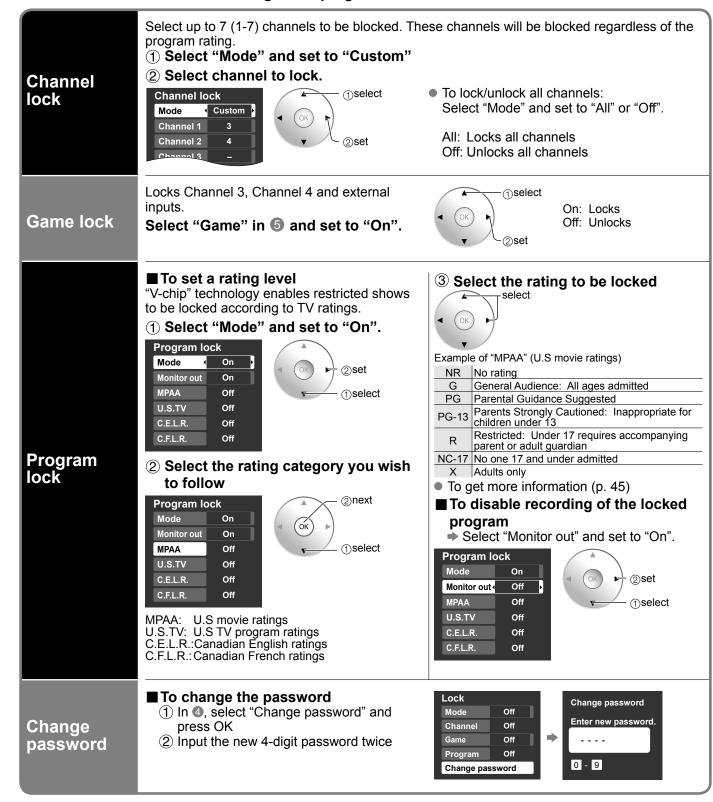
Lock Mode Custom Channel Off

Off

Off



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



- 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.



-(1)select

②change

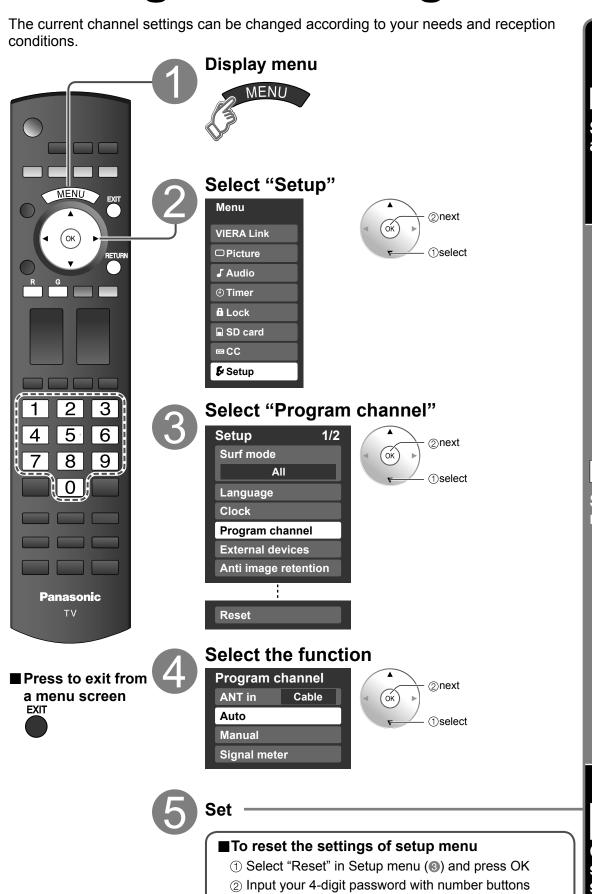
RETURN

②Press OK to tune

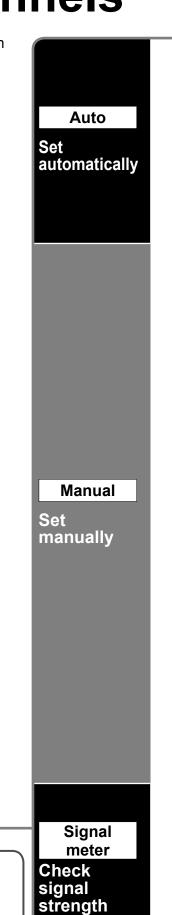
to the channel.

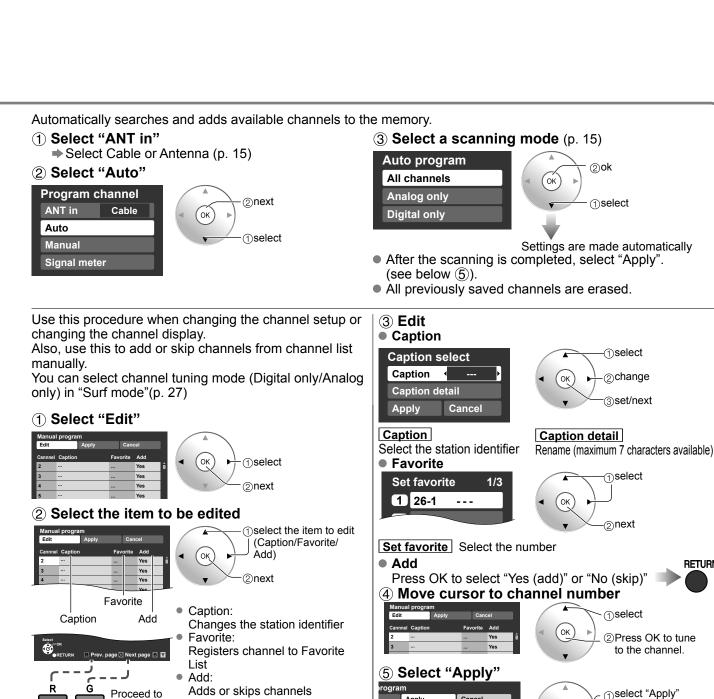
nselect "Apply"

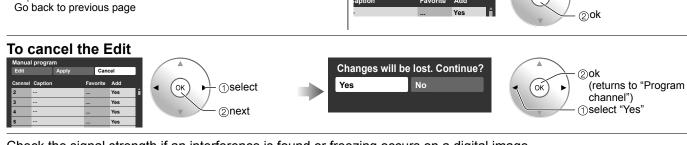
Editing and Setting Channels

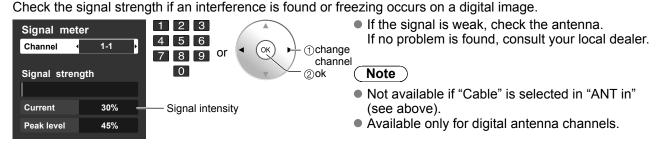


③ Select "YES" on the confirmation screen and press OK



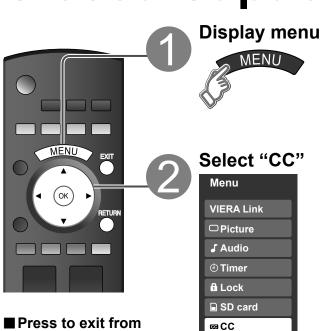






[•] If "Lock" (p. 32) is activated and "Program channel" is selected, "Enter password." will be displayed.

Closed Caption

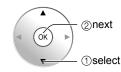


a menu screen

CC

Display Closed

Caption

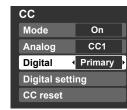


The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed Caption (CC) information. (p.46)

CC1-4:

■ Select the item and set

Setup



①select
②set

 The settings in "Analog" or "Digital" depend on the broadcaster. Mode Select "On" (when not using, select "Off").

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

Information related to pictures (Appears at bottom of screen)

T1-4: Textual information (Appears over entire screen)

The Digital Closed Caption menu lets you configure the way you choose to view the digital

captioning.)

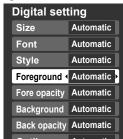
Select the setting.

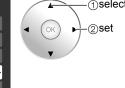
• "Primary", "Second.", "Service 3", "Service 4", "Service 5", "Service 6"

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

① Select "Digital setting" and press OK

2 Select the item and set

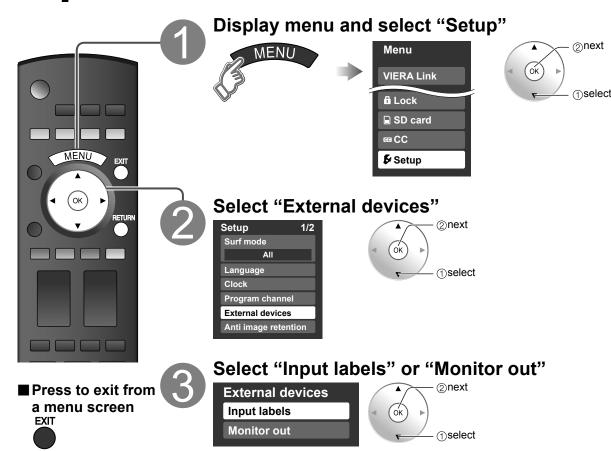


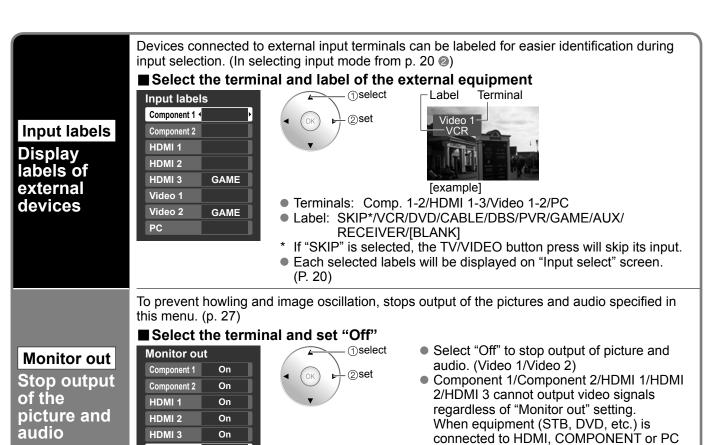


- ①select Size: Text size Font: Text font
 - Style: Text style (Raised, Depressed, etc.)
 - Foreground: Color of text
 - Fore opacity: Opacity of textBackground: Color of text box
 - Back opacity: Opacity of text box
 - Outline: Outline color of text (Identify the setting options on the screen.)

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

Input Labels/Monitor Out





terminals, no video signals can be passed

through PROG OUT terminal.

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Video 1

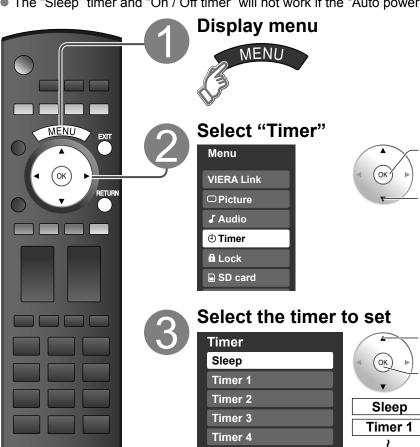
Off

On

Using Timer

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

- The Clock must be set before On time/Off time settings. (p. 14)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 27) is set.



■ Press to exit from a menu screen



■ Press to return to the previous screen
RETURN



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



Timer 5

■ To set "Sleep" (Off Timer)

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

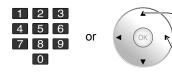
Timer 5





■ To set "Timer 1-5" (On/Off Timer)
Select the item and set

Timer 1	
Channel	310 - 1
Day	EVR FRI
On time	10:00 AM
Off time	11:00 AM
Set	On



ime 10:00 AM 0 Channel Select the channel

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

EVR TUE/EVR WED/EVR THU/EVR FRI/ EVR SAT

Turns Off automatically

(5 timers can be set.)

Turns On/Off automatically

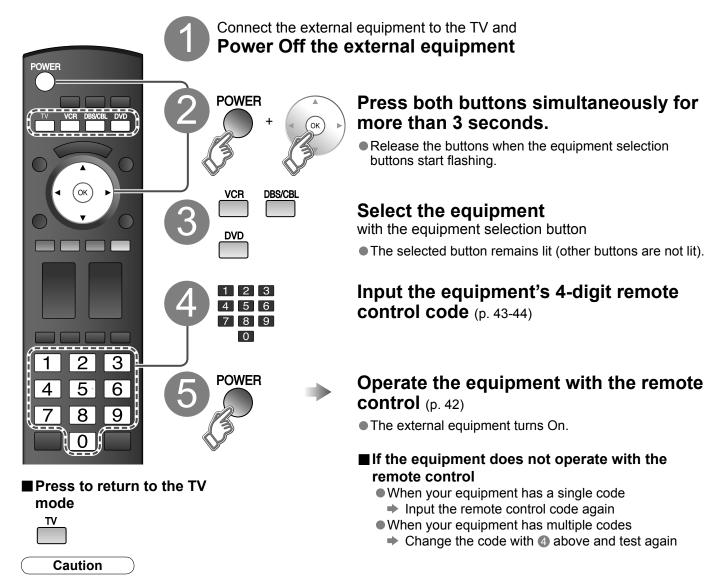
0/30/60/90 (minutes)

1)select

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

Operating Peripheral Equipment

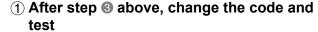
You can operate other manufacturers' equipment using this TV's remote control.

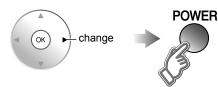


Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

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

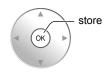




Operate the equipment with the remote control (p. 42)

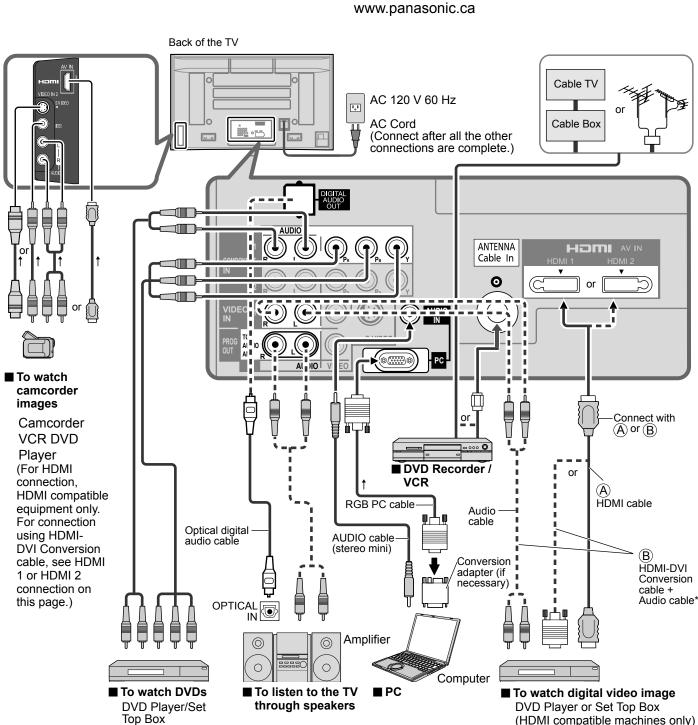
- Repeat until the code is found
- It may take many attempts before the correct code is found

2 When the correct code is found



Recommended AV Connections

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



Note

- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 37) cannot be output from "PROG OUT" terminals. However, audio output can be obtained from "DIGITAL AUDIO OUT" terminal.
- To prevent howling and image oscillation, set the "Monitor out" setting when connecting the VCR with loop-connection. (p. 26, 37)
- When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, no video signals can be passed through PROG OUT terminal.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.
- * Please see p. 24-25 for setup when using an external analog audio cable with an HDMI

VIERA Link™ Connections

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

Optional HDMI and/or optical cables are not included.

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

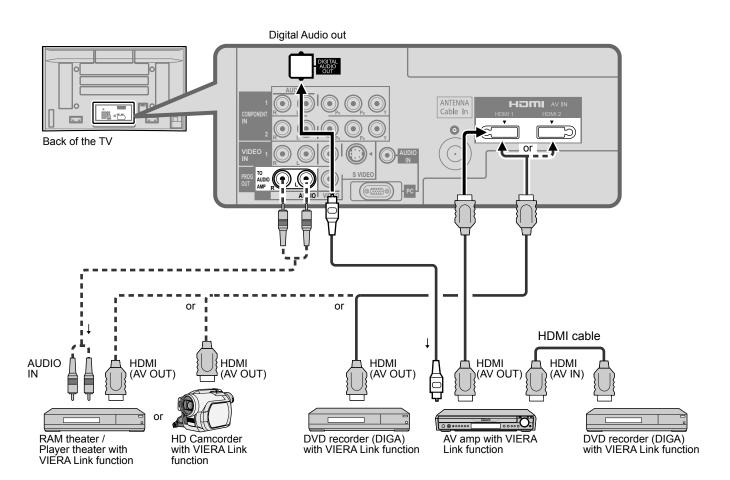
(Note)

 HDMI 1 is recommended. When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 20) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 28-31).

■ Connecting this unit to the DVD recorder (DIGA), RAM theater, or Player theater

- For DVD recorder (DIGA): Connect with HDMI cable
- For RAM theater and Player theater: Connect with the HDMI and audio cables. If audio cable is not connected, you cannot listen to the TV program through the theater system.
- Connecting this unit to a DVD recorder (DIGA) and AV amp When using an "VIERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) use a daisy chain

connection as shown below.



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

■ Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 21, 26-27).

(Note)

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

Remote Control Operation/Code List

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

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

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

KEY NAME	VCP MODE	DBS	CBL MODE	DVD MODE
	VCR MODE	(DBS)	(CBL)	DVD MODE
POWER	Power	Power	Power	Power
SAP	_	LIST	LIST	DVD AUDIO
VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
MENU	_	Menu	Menu	Functions
EXIT	_	Exit	Exit	_
	_	Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left
▼ OK ►	_	Select	Select	Enter
SUB MENU	_	Guide	Guide	Sub Menu
RETURN	_	PPV/VOD	PPV/VOD	Return
R	_	Red	A	Red
G	_	Green	В	Green
В	_	Blue	С	Blue
Y	_	Yellow	D	Yellow
∨ cH	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)
-SKIP-	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR GAME	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	_
- SEARCH-	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward
REC	VCR Record	PVR Record *1	PVR Record *1	Record
STOP	Stop	Stop	Stop	Stop
PAUSE	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

Brand	verter (C) (DBS/CBL)						
ABC	Code	Brand	Code	Brand	Code	Brand	Code
IDB	0003, 0007, 0008 2092	Hytex i3 Micro	0007 1602	Philips Pioneer	0317, 1305 0144, 0533, 0877, 1877	Supercable Supermax	0276 0883
mericast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Pulsar	0000	Thomson	1256
mino	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012, 0059
ell South	0899	Motorola	0276, 0476, 0810, 1106, 1187, 1254, 1376, 1951	RadioShack	0883	Torx	0003
learmaster learMax	0883	MTS	1951	RCA Regal	0021, 1256 0273, 0279	Toshiba Tristar	0000
ontec	0019	Multitech	0883	Runco	0000	United Artists	0007
oolmax	0883	Myrio	1602, 1822	Samsung	0144	V2	0883
igeo	1187	Oak	0007, 0019	Scientific Atlanta	0008, 0477, 0877, 1877	Viewmaster	0883
Pirector General Instrument	0476 0003, 0276, 0476, 0810	Optimus Pace	0021 0008, 0237, 1877	Sejin Sony	1602	Vision Vortex View	0883
oldStar	0144	Panasonic	0000, 0237, 1677	Sprucer	0021	Zenith	0000, 0525, 0899
amlin	0009, 0273	Paragon	0000	Starcom	0003		1000, 0000
Cable/PVR	R Combination (C) (BBS/CBL)					
mericast	0899	Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
mino	1822	Motorola	0810, 1106, 1187, 1376	RCA	1256	Thomson	1256
igeo	1187	Myrio	1822	Scientific Atlanta	0877, 1877	Zenith	0899
eneral Instrument	0810 DB9/DBL >	Pace	0237, 1877	Sony	1006		
	eceiver (S) ()		0500	Management	10700 0704	DOA	0440 0500 0055 4000
phaStar ell ExpressVu	0772 0775, 1170	GE General Instrument	0566 0869	Magnavox Memorex	0722, 0724 0724	RCA Samsung	0143, 0566, 0855, 1392 1108, 1109, 1276, 1377, 1442, 1
naparral	0216	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
olsat	1806	Goodmans	1246	Motorola	0869	Sony	0639, 1639, 1640
rossdigital	1109	Hisense	1535	NEC	1270	Star Choice	0869
recTV	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 Paysat	0724	UltimateTV Ultrasat	1392, 1640 1806
sh Network Syster	m 0775, 1005, 1170, 1505, 1775	Humax	1781, 1790	Philips	0099, 0722, 0724, 0749, 0856, 1076,	Uniden	0722, 0724
shpro	0775, 1005, 1505, 1775	iLo	1535		1142, 1442, 1749	US Digital	1535
chostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	USDTV	1535
cpressvu	0775, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
ortec Star	1821, 1948	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
_	Combination (S) (
ell ExpressVu	0775, 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
recTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Expressvu Hughes Network	0775 1142, 1442, 1443, 1444	Philips Proscan	0392	Star Choice Tivo	0869 1142, 1442, 1443, 1444
sh Network Syster		Systems	1142, 1442, 1443, 1444	RCA	1392	Zenith	1810
shpro	0775, 1505	JVC	1170	Samsung	1442		1
/CR (V) (VCR						
BS	1972	GE	0035, 0060, 0202, 0240, 0761, 0807,	MTC	0000, 0240	Sansui	0000, 0041, 0067, 0209, 0479, 1
ccurian	0000		1035, 1060, 2613	Multitech	0000, 0072	Sanyo	0046, 0047, 0104, 0159, 0240
dmiral	0048, 0209	Go Video	0432, 0526, 0614, 0643, 1137	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
dventura	0000	GoldStar	0037, 0038, 1137, 1237	Nikko	0037	Sears	0000, 0035, 0037, 0042, 0046, 0 0104, 0105, 1237
iko	0278	Gradiente	0000	Nikon Nixova Madia	0034	Chara	1 1
iwa kai	0000, 0037, 0124, 0307, 0468 0041, 0061, 0106, 0175, 0242	Harley Davidson Harman/Kardon	0038, 0075, 0081	Niveus Media Noblex	0240	Sharp Shintom	0048, 0807, 0848 0072
lienware	1972	Harwood	0068, 0072	Northgate	1972	Shogun	0240
legro	1137	Headquarter	0046	Olympus	0035, 0226	Singer	0072
merica Action	0278	Hewlett Packard	1972	Onkyo	0222	Sonic Blue	0614, 0616, 1137
nerican High	0035	HI-Q	0047	Optimus	0037, 0048, 0104, 0162, 0432, 0593, 1048, 1062, 1162, 1262	Sony	0000, 0032, 0033, 0034, 0035, 0 1032, 1972
dio Dynamics	0240	Hitachi Howard Computers	0000, 0041, 0042, 0089, 0105, 2613 1972	Orion	0002, 0184, 0209, 0479, 1479	Stack 9	1972
diovox	0037, 0278	HP	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226.	STS	0042
aumark	0240	Hughes Network	0042, 0739	Tanadonio	0227, 0246, 0378, 0485, 0614, 0616,	Sylvania	0000, 0035, 0043, 0081, 0110, 0
ell & Howell	0104	Systems			0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809	,	1593, 1781
oksonic	0002, 0121, 0184, 0209, 0348, 0479, 1479	Humax	0739, 1797, 1988			Symphonic	0000, 0593, 1593
	1 11 1	Hush	1972	Penney	0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237	Systemax	1972
alix	0037	iBUYPOWER Instant Replay	1972 0035, 0226	Pentax	0042, 0105,	Tagar Systems Tashiko	1972 0037
ptive Works	2167	Jensen	0035, 0226	Philco	0042, 0105,	Tatung	0037
arver	0081	JVC	0008, 0041, 0067, 2079	Philips	0035, 0081, 0110, 0618, 0739	Teac	0000, 0041
Œ	0072, 0278	KEC	0037, 0278		1081, 1181	Technics	0035, 0162, 0246
neVision	1137	Kenwood	0038, 0041, 0067	Pilot	0037	Teknika	0000, 0035, 0037
izen	0037, 0278, 1278	KLH	0072	Pioneer	0067, 1337	Thomas	0000
aig	0072	Kodak LG	0035, 0037 1037, 1137, 2010	Polk Audio Presidian	0081 1593	Tivo TMK	0618, 0636, 0739, 1337, 1996 0208, 0240
artis Mathes	0037, 0047, 0072, 0240	Linksys	1972	Presidian	0240	Toshiba	0043, 0045, 0212, 0845, 1008,
bernex	0240	Lloyd's	0000, 0208	Proscan	0060, 0202, 0761, 1060		1972, 1988, 1996
berPower	1972	Logik	0072	Protec	0072	Totevision	0037, 0240
iewoo	0045, 0278, 0561, 0637, 1137, 1278	LXI	0037	Pulsar	0039	Touch	1972
3X	0040, 0050	Magnasonic	0593, 1278	Quarter	0046	Unitech	0240
non	1972 0042	Magnavox	0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781	Quartz Quasar	0046 0035, 0077, 0162, 1035, 1162	Vector Vector Research	0045 0038, 0040
nensia	2613	Magnin	0240	RadioShack	0000, 1037	Video Concepts	0040, 0045, 0061
recTV	0739	Marantz	0035, 0081	Radix	0037	Videomagic	0037
ırabrand	0038, 0039	Marta	0037	Randex	0037	Videosonic	0240
natech	0000	Matsushita	0035, 0162, 1162	RCA	0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035,	Viewsonic	1972
ectrohome	0037	Media Center PC	1972		1060, 2613	Villain	0000
ectrophonic nerex	0037	MEI Memorex	0005 0000, 0035, 0037, 0039, 0046, 0047,	Realistic	0000, 0035, 0037, 0046, 0047,	Voodoo Wards	1972 0000, 0035, 0042, 0047, 0048,
nerson	0000, 0002, 0037, 0043, 0061, 0068,	MEHIOLEX	0048, 0104, 0162, 0209, 0240, 0307,	1 Callotto	0048, 0104	**aius	0072, 0081, 0149, 0212, 0240
	0121, 0184, 0208, 0209, 0212, 0278, 0479, 0561, 0593, 0637, 1278,		0348, 0479, 1037, 1162, 1237, 1262	ReplayTV	0614, 0616	White Westinghouse	0072, 0209, 0637
	0479, 0561, 0593, 0637, 1278, 1479, 1593	MGA	0043, 0061, 0240	Ricavision	1972	XR-1000	0000, 0035, 0072
		MGN Technology	0240,	Ricoh	0034	Yamaha	0038
iA her	1137	Microsoft	1972	Rio	1137	Zenith	0000, 0033, 0034, 0039, 0209, 0637, 1137, 1139, 1479
	0047, 0104	Mind	1972	Runco	0039	ZT Group	1972
	0033 0035	Minolta	10042 0105	Salora			
ji nai	0033, 0035 0000, 0593, 1335, 1593	Minolta Mitsubishi	0042, 0105 0043, 0061, 0067, 0075, 0173, 0214,	Salora Samsung	0075 0045, 0240, 0739, 1014		

*1: Combination type

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

DBS/PVR Combination (V) ()

DVD-Record

C	mbination (V) ()						
ı	Code	Brand	Code	Brand	Code	Brand	Code
1	0739		0739	Philips	0739	Tivo	0739
		Systems		Samsung	0739		
d	er (V) (BS/CBL)						
1	0000						

Magnavox	0000						
PVR (V) ()						
ABS	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
Alienware	1972	Systems		Panasonic	0614, 0616, 1807, 1808, 1809	Tivo	0618, 0636, 0739, 1337
Captive Works	2167	Humax	0739, 1797, 1988	Philips	0618, 0739	Toshiba	1008, 1972, 1988, 1996
CyberPower	1972	Hush	1972	Pioneer	1337	Touch	1972
Dell	1972	iBUYPOWER	1972	RCA	0880	Viewsonic	1972
DirecTV	0739	LG	2010	ReplayTV	0614, 0616	Voodoo	1972
Gateway	1972	Linksys	1972	Samsung	0739	ZT Group	1972
Go Video	0614	Media Center PC	1972	Sonic Blue	0614, 0616		
Hewlett Packard	1972	Microsoft	1972	Sony	0636, 1972		
Howard Computers	1972	Mind	1972	Stack 9	1972		

HP	1972	Niveus Media	1972	Systemax	1972		
DVD (Y) (1)						
	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo	0698, 0752
	1094	Enterprise	0591	Marantz	0539	Samsung	0199, 0490, 0573, 0820, 0899, 1044
Aiwa	0641	ESA	1268	McIntosh	1273		1075, 1470
Akai	0695, 0770, 0899, 1089	Fisher	0670	Memorex	0695, 0831, 1270	Sansui	0695
Alco	0790	Funai	0675, 1268, 1334	Microsoft	0522, 1708, 2083	Sanyo	0670, 0695, 0873
Allegro	0869	Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science	1158
	0872, 1245	GE	0522, 0717, 0815	Mitsubishi	0521, 1521	Sharp	0630, 0675, 0752, 1256
AMW	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158,	Momitsu	1082	Sharper Image	1117
Apex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730	NAD	0692, 0741	Sherwood	0633, 0770, 1043, 1077
	1004, 1020, 1056, 1061, 1100		1304, 1730	Nakamichi	1222	Shinsonic	0533, 0839
Arrgo	1023	Go Vision	1072	NEC	0785	Sigma Designs	0674
Aspire Digital	1168, 1407	GoldStar	0741	Nesa	0717	Sonic Blue	0869, 1099
Astar	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony	0533, 0864, 1033, 1069, 1070, 1431
Audiologic	0736	Greenhill	0717	NexxTech	1402		1432, 1433, 1516, 1533, 1536, 154
Audiovox	0790, 1041, 1072, 1121, 1122	Harman/Kardon	0582, 0702	Norcent	0872, 1003, 1107, 1265		1432, 1433, 1516, 1533, 1536, 1548 1791, 1824, 1892, 1903, 1904, 1934 1981, 2020, 2043
Axion	1072	Helios	2080	Nova	1517		
B&K	0655, 0662	Hello Kitty	0831	Onkyo	0503, 0627, 0792, 1769	Sova	1122
BBK	1224	Hitachi	0573, 0664, 1247	Орро	0575, 1224 1525	Sungale	1074
Bel Canto Design	1571	Hiteker	0672	OptoMedia Electronics	0896	SVA	0860, 1105
Blaupunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
Blue Parade	0571	iLo	1348, 1472	Panasonic	0458, 0490, 0632, 0703, 1010, 1011,	Symphonic	0675
Broksonic	0695, 1419	Initial	0717, 1472		1362, 1462, 1464, 1490, 1641, 1762, 1907, 1908, 1909, 1910, 1925, 1986,	TAG McLaren	0894
CAVS	1057	Insignia	1268, 2095		1990, 2017, 2060, 2061, 2062	Teac	0790
Cinea	0831	Integra	0627			Technics	0490, 0703
Cinego	1399	Jaton	1078	Philco	0675	Technosonic	0730
CineVision	0833, 0869, 0876	JBL	0702	Philips	0503, 0539, 0646, 0675, 1267, 1340,	Techwood	0692
Citizen	0695, 1277, 1587, 2116	JSI	1423		1354, 2056, 2084	Terapin	1031
Coby	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
Craig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1588
Curtis Mathes	1087	Kawasaki	0790	Polk Audio	0539		1608, 1769, 1854
CyberHome	0816, 0874, 1023, 1024, 1117, 1129,	Kenwood	0490, 0534, 0682	Portland	0770	Tredex	0799, 0800, 0803, 0804
	1502, 1537	KLH	0717, 0790, 1020, 1149	Presidian	0675, 1072	Urban Concepts	0503
Daewoo	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
Denon	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
Desay	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
Diamond Vision	1316	Lenoxx	1127	RCA	0522, 0571, 0717, 0790, 0822, 1022,	Xbox	0522, 1708, 2083
Disney	0675, 1270	LG	0591, 0741, 0869		1132, 1769	Xwave	1001
Dual	1068, 1085	LiteOn	1058, 1158, 1416, 1440, 1656	Rio	0869	Yamaha	0490, 0497, 0539, 0545
Durabrand	1127	Loewe	0511	RJTech	1360	Zenith	0503, 0591, 0741, 0869
	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
Electrohome	2116		1472, 1506	Rowa	0823		

DVD-Reco	rder (Y) (🛗)						
Accurian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432,
Apex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340		1433, 1536
Aspire Digital	1168	Go Video	0741, 1158, 1304, 1730	Pioneer	0631	Sylvania	0675
Broksonic	1419	iLo	1348	Polaroid	1086, 2130	Toshiba	1588
Citizen	2116	JVC	1164, 1275	RCA	0522	Zenith	0741
Coby	1086	LG	0741	Samsung	0490, 1470		
CyberHome	1129, 1502	LiteOn	1158, 1416, 1440	Sensory Science	1158		
E1 ()	0.110	**	0010 0000 1000	01			

Diu-lay Disc							
LG	0741	Philips	2084	Samsung	0199		
	1641, 2061, 2062	Pioneer	0142	Sony	1516		
HD-DVD (Y)	(DVD)						
LG	0741	Onkyo	1769	RCA	1769	Toshiba	1769
HTiB (Y) (<u> </u>						
Aiwa	0641	Panasonic	0458, 1779, 1907, 1908, 1909, 1910,	Rio	0869	Teac	0790
Audiovox	0790		1925, 1990, 2017	Sherwood	1077	Toshiba	1854
KLH	0790	Philips	1267	Sonic Blue	0869	Venturer	0790
Koss	0651	Polk Audio	0539	Sony	1824, 1892, 1903, 1904, 1934, 1981,	Yamaha	0497

Ratings List for Lock

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

■U.S. MOVIE RATINGS (MPAA)

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

■U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	ViewableBlocked	Not Rated.
	TV-Y	ViewableBlocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
Youth	TV-Y7	FV BlockedViewableBlocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	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.
	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

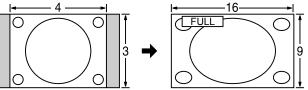
Closed Caption (CC)

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

Aspect Ratio

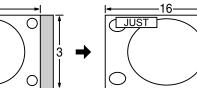
Lets you choose the aspect depending on the format of the received signal and your preference. (p. 17) (e.g.: in case of 4:3 image)

FULL



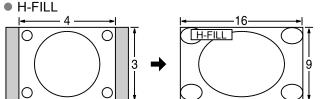
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

JUST



Stretches to justify the 4:3 image to the four corners of the (Recommended for normal TV broadcast)

• 4:3



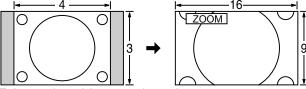
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

Side bar

Standard

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

ZOOM



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

Note

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

Zoom adjust

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

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

V-size: Vertical size adjustment











To reset the aspect ratio



Data format for SD Card browsing

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

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

Max. number of files: 9,999

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

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

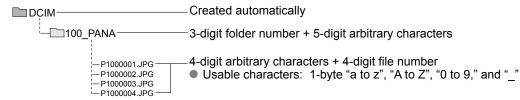
** EXIF (Exchangeable Image File Format)

Caution

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

Note

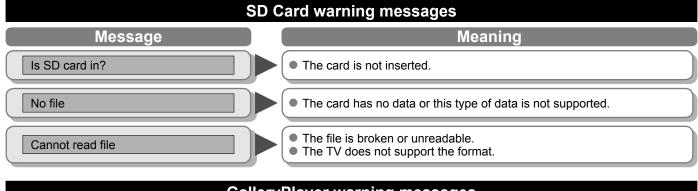
Folder structure viewed in PC

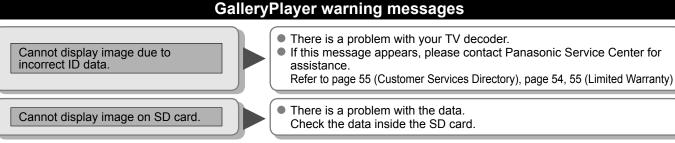


- The folder and file names may be different depending on the digital camera used.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.co.ip/pavc/global/cs (This site is in English only)

Cautions in handling SD Card:

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





Viewing from a GalleryPlayer SD Card

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

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

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FAQs, etc.

Technical Information (Continued)

VIERA Link™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 28)

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

HDMI connection

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

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

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

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

(Caution)

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

DIGITAL AUDIO OUT terminals

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

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG OUT terminals.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM. See pages 37-38 for more information

Picture mode

Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room. Recommended for normal viewing conditions with subdued room lighting. Standard:

Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.

Custom (Photo): Customizes each item according to your taste.

Photo is displayed in JPEG menu.

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

(Note

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- Picture mode will be automatically set to "Standard" if you change the Input label from "GAME" to other labels.
- Picture mode will be automatically set to "Game" if you change from an Input label other than "GAME" to "GAME" label.

Side Bar

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

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

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 Image retention-4:3 Screen ➾ Display

Scrolling bar

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

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



Input signal that can be displayed

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

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

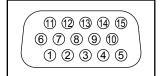
- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

PC Input Terminals Connection

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

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

Signal Names for D-sub 15P Connector



	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
	1	R	6	GND (Ground)	11)	NC (not connected)
	2	G	7	GND (Ground)	12	NC
	3	В	8	GND (Ground)	13	HD/SYNC
	4	NC (not connected)	9	NC (not connected)	14)	VD
al	5	GND (Ground)	10	GND (Ground)	15	NC

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VOL

1 2

LAST ()

STOP PAUSE

4 5 6

7 8 9

For additional assistance, please contact us via the website at:

www.panasonic.com/contactinfo

www.panasonic.ca

White spots or shadow images (noise)





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

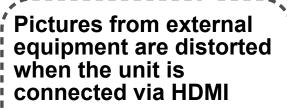
Interference or frozen digital channels (intermittent sound)



50

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





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

Recording does not start immediately

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

The remote control does

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

• Has the battery run down?

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).

Problem

Actions

"Press any key to return" moves on the screen

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

One spot remains dark

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

Chaotic image, noisy

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

No image can be displayed

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

Only spots are displayed instead of images

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

Neither image nor sound is produced

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

Black Box appears

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

No sound is produced

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

Sound is unusual

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

Whirling sound is heard

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

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

" setting to "Se HDMI devidudio setting of CM."

ound connection sound con

etc.

Care and Cleaning

First, unplug the Power cord plug from the wall outlet.

Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, soak a soft, lint-free cloth in diluted mild liquid dish soap (1 part mild liquid dish soap diluted by 100 times the amount of water) and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the surface may be adversely affected.

Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in a weak mild liquid dish soap and then wring the cloth dry.
 Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the Plasma TV.
 If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface
 may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made
 from rubber or PVC.

Pedestal

Cleaning

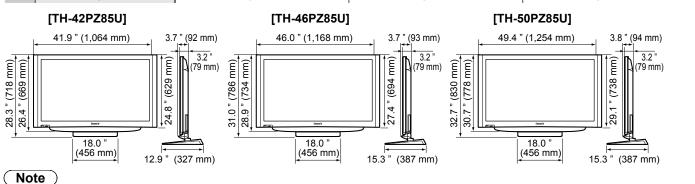
Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth.

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

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

Specifications

		TH-42PZ85U	TH-46PZ85U	TH-50PZ85U			
	er Source	AC 120 V, 60 Hz	•				
Power	Maximum	573 W	628 W	690 W			
S Drive method		0.2 W	0.2 W				
	Drive method	AC type					
Plasn panel	Aspect Ratio	16:9					
_ a	Visible screen size (W × H × Diagonal)	42 " class (41.6 inches measured diagonally) 36.2 " × 20.4 " × 41.6 "	46 " class (46.0 inches measured diagonally) 40.1 " × 22.5 " × 46.0 "	50 " class (49.9 inches measured diagonally) 43.5 " × 24.4 " × 49.9 "			
Display	(No. of pixels)	(922 mm × 518 mm × 1,057 mm) 2,073,600 (1,920 (W) × 1,080 (F) [5,760 × 1,080 dots]	(1,019 mm × 573 mm × 1,169 mm) (1,106 mm × 622 mm × 1,269 mr				
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)					
PC s	ignals	VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz					
Char (Digi	Channel Capability (Digital/Analog) VHF/ UHF: 2 - 69, CATV: 1 - 135						
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)					
	VIDEO IN 1-2	S-VIDEO: Mini DIN 4-pii AUDIO L-R: RCA PIN Typ	e × 2 0.5 V [rms]	C: 0.286 V [p-p] (75 Ω)			
Conne	COMPONENT INPUT 1-2	$ PB, PR: \pm 0.35 \ V \ [p-p]$	cluding synchronization) e × 2 0.5 V [rms]				
ction	HDMI 1-3	TYPE A Connector × 3 This TV supports "HDAVI Control of the contr	ntrol 3" function.				
Connection Terminals	PC	D-SUB 15PIN: R,G,B / 0.7 V HD, VD / 1.0 AUDIO L-R: Stereo Mini J:	[p-p] (75 Ω) - 5.0 V [p-p] (high impedance) ack (Φ3.5 mm) × 1				
als	Card slot	SD CARD slot × 1					
	AV PROG OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]					
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Option					
FEAT	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip Photo viewer HDAVI Control 3					
Dimensions (W×H×D)	Including pedestal	41.9 " × 28.3 " × 12.9 " (1,064 mm × 718 mm × 327 mm)	46.0 " × 31.0 " × 15.3 " (1,168 mm × 786 mm × 387 mm)	49.4 " × 32.7 " × 15.3 " (1,254 mm ×830 mm × 387 mm)			
sions	TV Set only	41.9 " × 26.4 " × 3.7 " (1,064 mm × 669 mm × 92 mm)	46.0 " × 28.9" × 3.7 " (1,168 mm × 734 mm × 93 mm)	49.4 " ×30.7 " ×3.8 " (1,254 mm × 778 mm × 94 mm)			
Z.	Including pedestal	70.5 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)			



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

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Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

In-Home or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

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

Customer Services Directory

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

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South.

Kent, WA 98032

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

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

Service in Puerto Rico

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre: 1-800 #: 1-866-330-0014 Email link: www.vieraconcierge.ca

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.
