Panasonic®

Operating Instructions 58"/65" Class 1080p Plasma HDTV

(58.0/64.7 inches measured diagonally)

Manual de instrucciones

Televisión de alta definición de 1080p y clase 58"/65" de Plasma

(58,0/64,7 pulgadas medidas diagonalmente)





Model No. Número de modelo TH-58PZ850U TH-65PZ850U

Quick Start Guide

(See page 6-15)

Guía de inicio rápido

(vea la página 6-15)

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















English

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

Español

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

Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement



This device contains a digital television tuner, so it should receive digital over the air TV programming, with a suitable antenna, after the end of full-power analog TV broadcasting in the United States (as required by law) on February 17, 2009. Some older television receivers, if they rely on a TV antenna, will need a TV Converter to receive over the air digital programming, but should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see www.DTV.gov . For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov , or call the NTIA at 1-888-DTV-2009. Please check with your cable or satellite service provider if you have questions about your cable or satellite set-top box.



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GalleryPlayer°

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VIECA LINK

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HDAVI Control™ HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.	COTY
EZ Sync [™] EZ Sync [™] is a trademark of Matsushita Electric Industrial Co., Ltd.	ENERGY STAR
DOLBY and the do	se from Dolby Laboratories. ouble-D symbol are olby Laboratories.

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Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



4

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

The lightning flash with



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

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

WARNING:

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

Important Safety Instructions

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

- Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

FCC STATEMENT

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

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

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

FCC Caution:

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

FCC Declaration of Conformity Model No. TH-58PZ850U, TH-65PZ850U

Responsible Party: Panasonic Corporation of North America
One Panasonic Way, Secaucus, NJ 07094

Contact Source: Panasonic Consumer Electronics Company

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

email: consumerproducts@panasonic.com

CANADIAN NOTICE:

For Model TH-58PZ850U, TH-65PZ850U

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

WARNING/CAUTION



Small parts can present choking hazard if accidentally swallowed.

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

■ Set up

Do not place the Plasma TV on sloped or unstable surfaces.

The Plasma TV may fall off or tip over.

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

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

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

Wall-hanging bracket (Vertical)

TY-WK42PV4W (TH-58PZ850U),

TY-WK65PV7 (TH-65PZ850U)

Pedestal

TY-ST65R4-WG (TH-65PZ850U)

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

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

Transport only in upright position!

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

■ AC Power Supply Cord

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

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

The included power cord is for use with this unit only.

Do not use any power cord other than that provided with this TV.

Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

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

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

■ If problems occur during use

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

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

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

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



Do not cover the ventilation holes.

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

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

■ When using the Plasma TV

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

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

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

Electric shocks can result if this is not done.

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

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

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

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

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

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

Notes

■ Do not display a still picture for a long time
This causes the image to remain on the plasma screen

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

Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo
 Video game
 Computer image





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

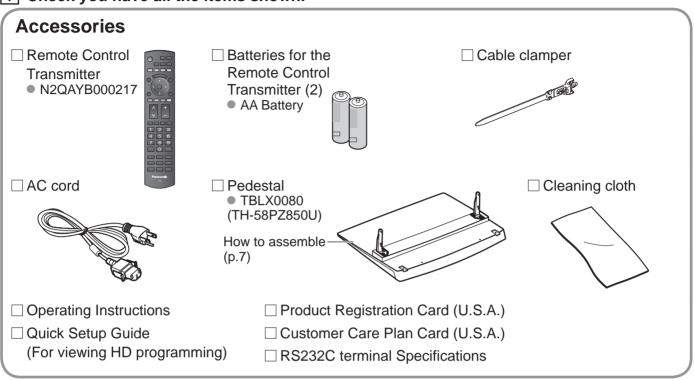
Set up

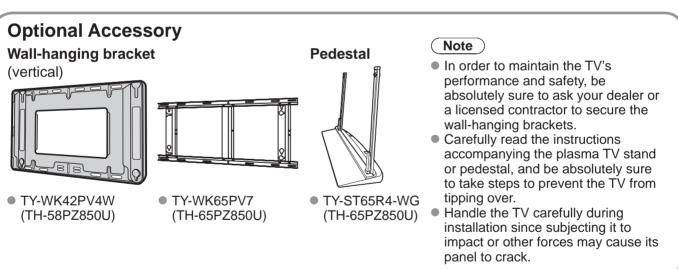
- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

Accessories/Optional Accessory

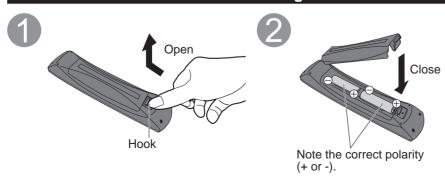
Accessories

Check you have all the items shown.





Installing the remote's batteries



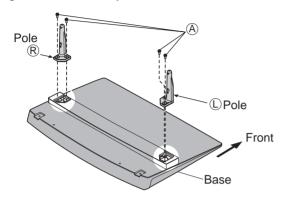
Caution

- 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. 47)

Attaching the pedestal to TV (TH-58PZ850U)

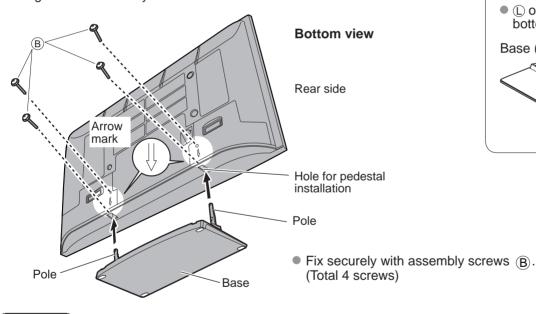
■Assembling the pedestal

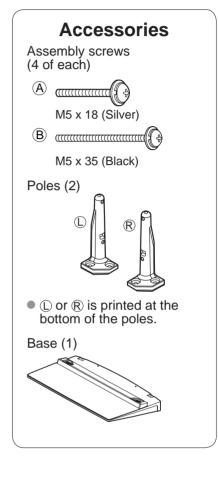
- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



■Set-up

- Carry out work on a horizontal and level surface.
- Align the pedestal with its center of rotation, referring to "Assembling the pedestal."
- Tighten screws firmly.





Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

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

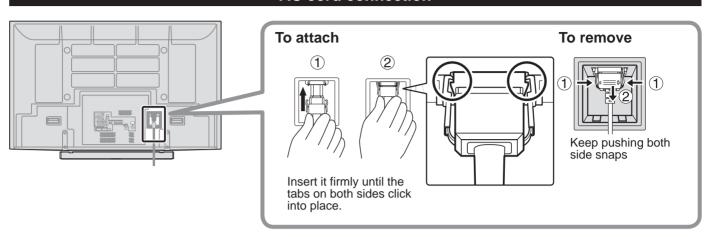
 If you use the pedestal when it is damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

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

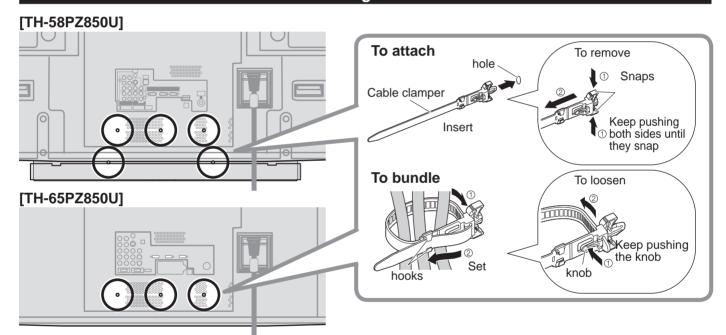
• If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Accessories/Optional Accessory (Continued)

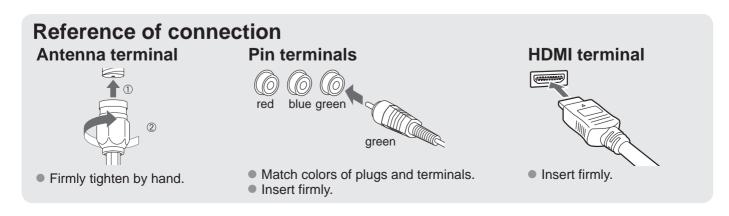
AC cord connection



Cable Binding Instructions

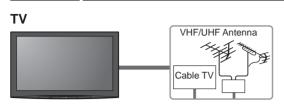


- Do not bundle the RF cable and AC cord together (could cause distorted image).
- Fasten the cables with the Cable clamper as necessary.
- When using the options, follow the option's assembly manual to fix cables.



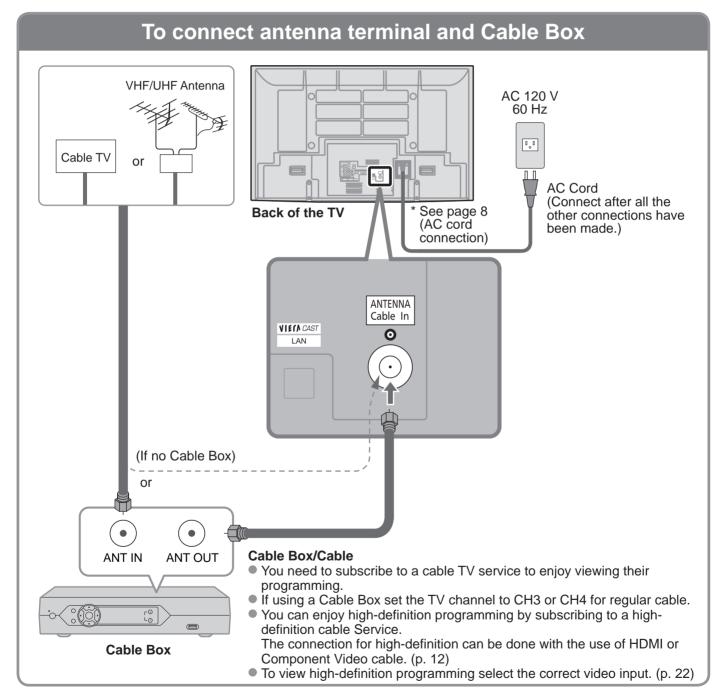
Basic Connection

Example 1 Connecting Antenna (To watch TV)



VHF/UHF Antenna

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



Note

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

Basic Connection (Continued)

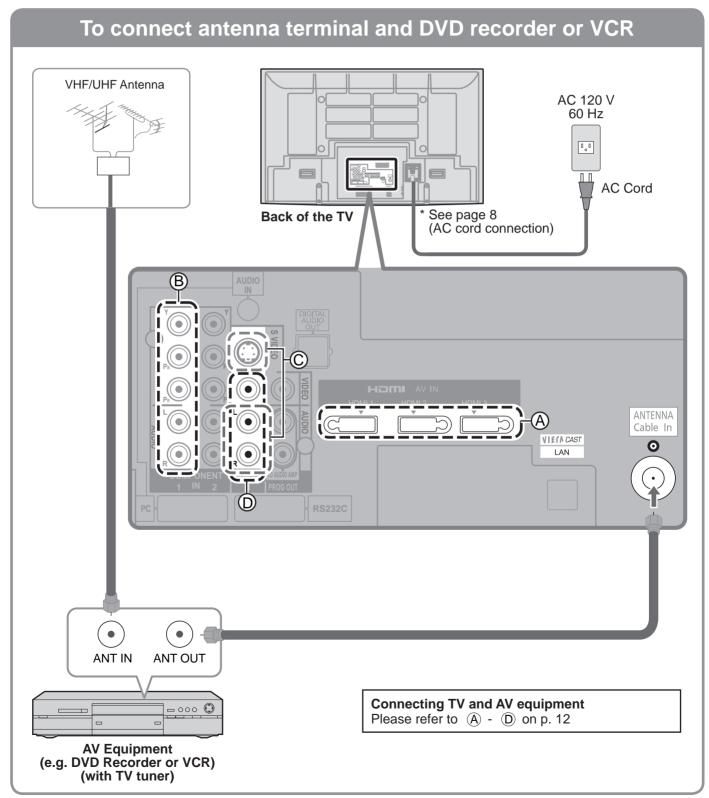
Example 2 Connecting DVD recorder (VCR) (To record/playback)



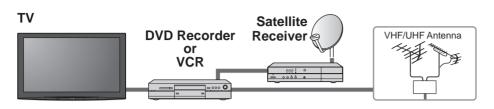
DVD Recorder

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

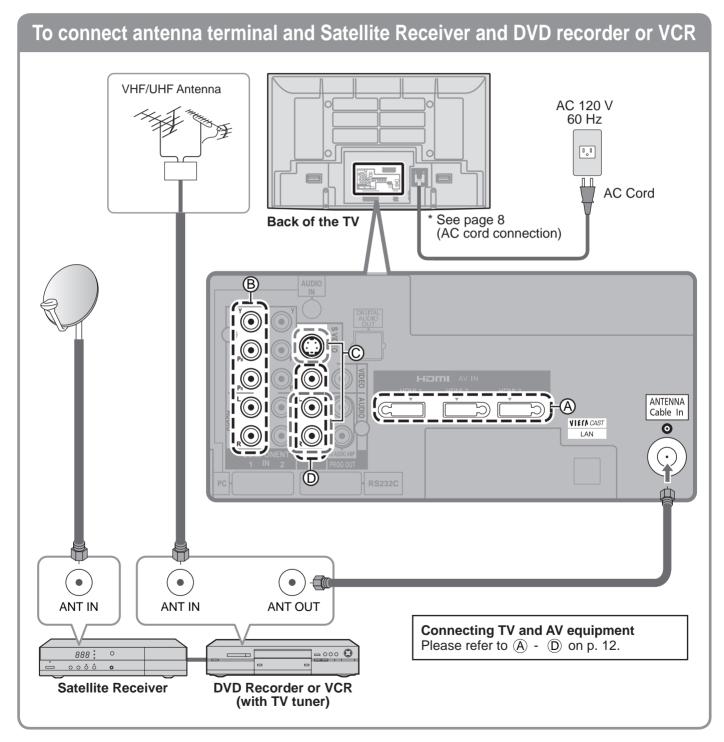
Connection can be done with the use of an RF cable and Composite Video/S Video cable. (p. 12)



Example 3 Connecting DVD recorder (VCR) and satellite receiver



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

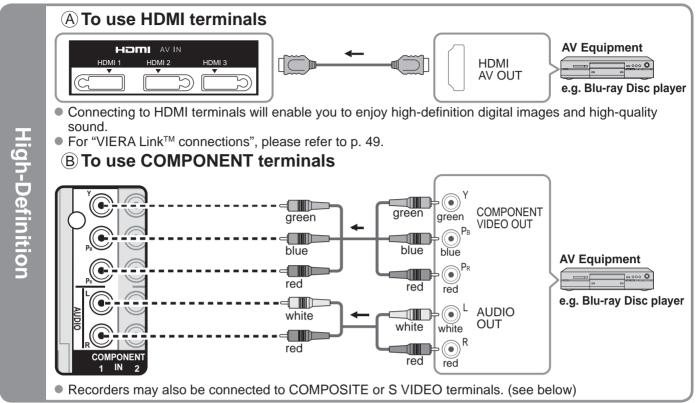


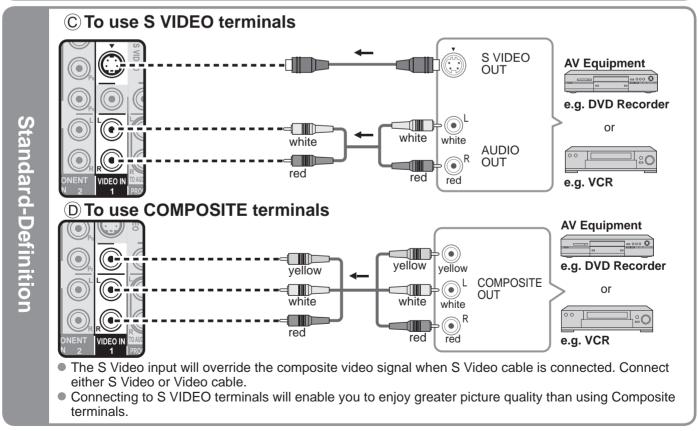
Note

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

Basic Connection (Continued)

AV cable connections

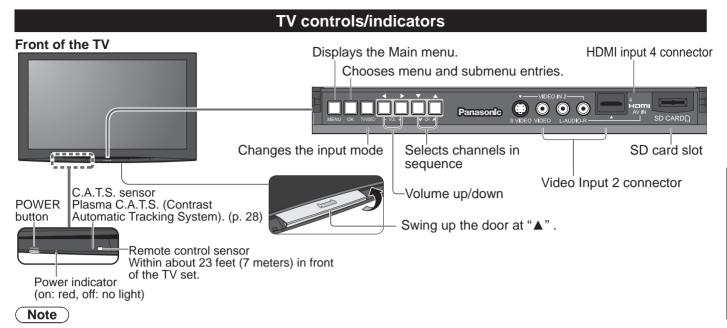




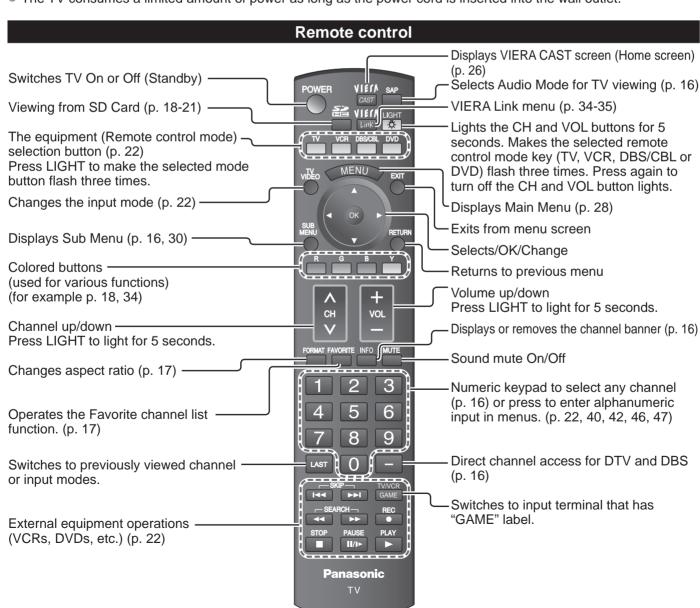
Note

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

Identifying Controls



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



First Time Setup

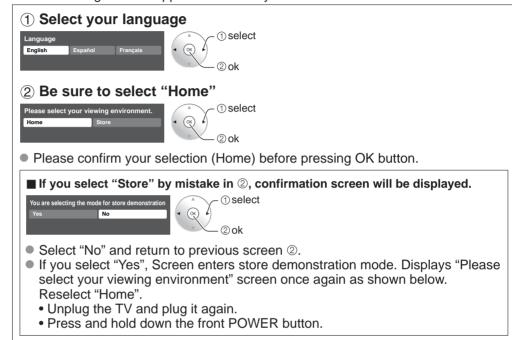
"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 30-31) is set to "No".



Turn the TV On with the POWER button



* This setting will be skipped next time if you select "Home".



■ Press to exit from a menu screen EXIT



■ Press to return to the previous screen RETURN

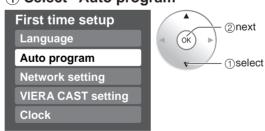


Note

To change setting (Language/ Auto program/ Network setting/ VIERA CAST setting/ Clock) later, go to Menu screen (p. 30)

Auto channel setup

Select "Auto program"

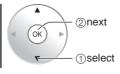


② Select "ANT in"



3 Select "Auto"



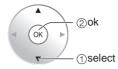


ANT in Cable: Cable TV Antenna: Antenna



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





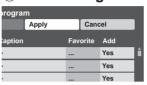


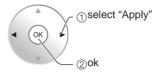
Start scanning the channels

Available channels (analog/digital) are automatically set.

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

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.







Network setting (p. 36-37) VIERA CAST setting (p. 38-39)

②set

(1)select

item

Adjust the clock



(1) Manual setting

Manual

2008

7

10 AM

10

Clock

Mode

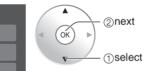
Year

Day

Hour

Minute

Month



Mode

Manual: Adjust the clock manually (Year/Month/Day/Hour/Minute)

The clock is adjusted Auto: automatically via Internet service.

Only available when the TV is on a network.

⇒ Set "Network setting" and "VIERA CAST setting" first. (Time zone/DST)

Year	Select the year
Month	Select the month
Day	Select the day
Hour	Adjust the hour
Minute	Adjust the minute

② Auto setting

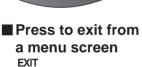


Time zone

Select your time zone. (EST/CST/MST/PST/AKST/ HST/NST/AST)

Set DST (Daylight Saving **DST** Time) setting. (On/Off)

On: Advances the clock one hour from the time is set according to the time zone.



Panasonic

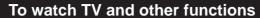
Note

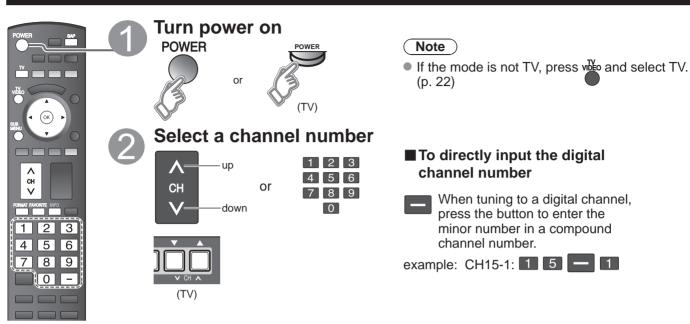
About broadcasting systems

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

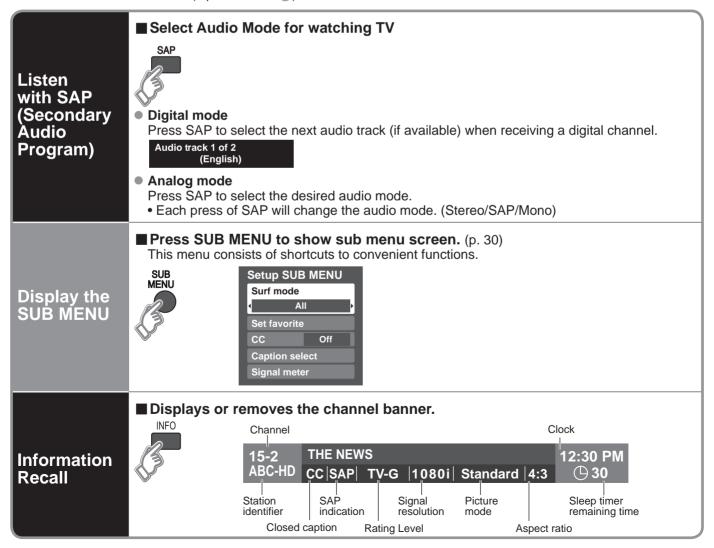
Watching TV

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





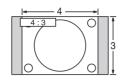
■ Other Useful Functions (Operate after ②)



Change aspect ratio

■ Press FORMAT to cycle through the aspect modes. (p. 54)





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

Call up a favorite channel



■ FAVORITE

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

Note

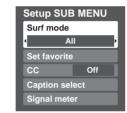
- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 15, 43)
- The channel number and volume level remain the same even after the TV is turned off.

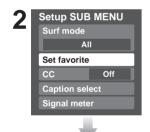
Favorite Feature

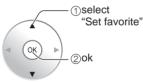
■Set Favorite Feature

Display the SUB MENU.



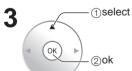






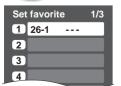


 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).



Press ▲ ▼to highlight a position on the list.

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



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

To delete a favorite channel

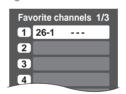
A saved channel can be removed from the list by holding down OK while its position is highlighted.

■Use Favorite Feature



Press FAVORITE.

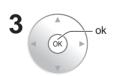
 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).





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

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



Press OK to display the highlighted channel.

Viewing from SD Card

You can view movies and 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.)

Movie player

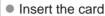


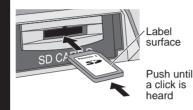




SD

Card





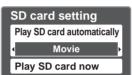
Remove the card → Press in lightly on SD Card, then release.



- Compliant card type (maximum capacity): SDHC Card (16 GB), SD Card (2 GB), miniSD Card (1 GB) (requiring miniSD Card adapter)
- For cautions and details on SD Cards (p. 55)
- Blue LED lights while SD Card is inserted if set "SD card LED" to "On" in Setup Menu (p. 30).



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



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

Movie: The video data plays automatically from next time.

Go to P. 19 ②

Photo: The photo data plays automatically from next time.

Go to P. 20 ②

Select later: "SD card" menu will be displayed from next

time. → Go to ②

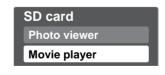
Off: The data can be played manually.

1) Press the SD key or select "SD card" on the Menu

You can skip this step when "Play SD card now" is selected or other than "off" (Movie/Photo/Select later) is set in "Play SD card automatically" setting.



② Select the item



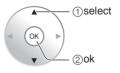


Photo viewer - Go to P. 20

Note

 No video signals can be output from PROG OUT terminal when playing the movie.

This product is licensed under the AVC patent portfolio license for the personal and noncommercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

Press to return to TV



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

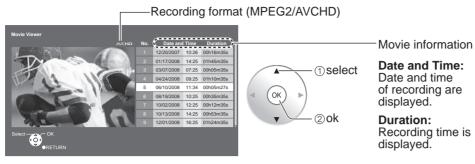


■ Press to return to the previous screen **RETURN**





Select the movie to be listed









Elapsed time of current movie

Other settings

■To adjust picture and audio/ To use VIERA Link function

In 2 or 3

■ Display "Movie menu"

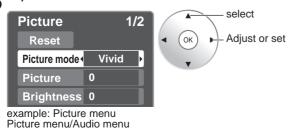


2 Select the item



3 Adjust or set

VIERA Link (p. 28)



■To confirm or change the current audio status

In 2 or 3

■ Display "current audio status"



2 Each press of SAP will change the audio mode. (If the movie has multiple audio signals.)



(Current audio status)

It may take several seconds to change the sound.

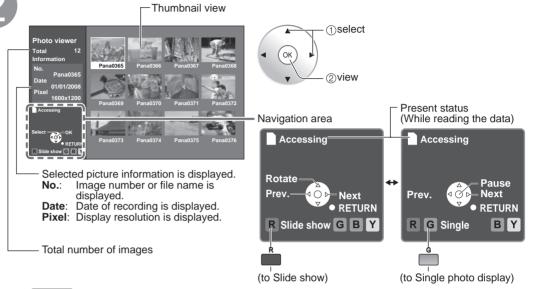
Viewing from SD Card (Continued)

Photo viewer

Follow direction (1) in Movie player (P. 18)

Select the data to be viewed





Note

 Depending on the JPEG format, "Information" contents may not be displayed correctly. Refer to p. 55 (Data format for SD card browsing) for details.

3

View



Displays one at a time Navigation area

Rotate 90 degrees (counter-clockwise)

To next photo

Rotate 90 degrees (clockwise)

To previous photo

To display/hide Navigation area

■ Press to return to TV



■ Press to exit from a menu screen

EXIT



■ Press to return to the previous screen RETURN



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

■To set up the slide show mode

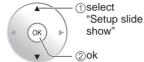
In 2 or 3

■ Display "Photo menu"



Select "Setup slide show"





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 stop in mid-cycle ⇒ Press



In 2 or 3

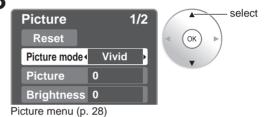
■ Display "Photo menu"



2 Select "picture"



3 Select the item



4 Adjust or select



Viewing from a GalleryPlayer SD Card

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

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

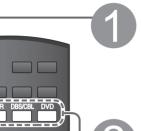
Watching Videos and DVDs

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

Input Select

You can select the external equipment to access.

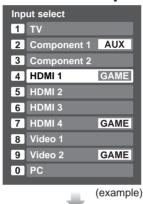
To operate other manufacturers' equipment, you need to register the code for the equipment. (p. 47)

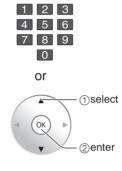


With the connected equipment turned On **Display the Input select menu**



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. 45.

Note

- The input label will be displayed on "Input select" screen if Input label is set on p. 45.
- For front input terminals (HDMI 4/Video 2), "GAME" input label is set as default. (Picture mode is set to "Game", refer to p. 56.)
- For more details for picture mode setting, refer to p.56. For Input label, refer to p. 45.

Switche TV/VCR GAME

Switches to Input terminal that has "GAME" label.

TV/VCR

Cycle through the input terminals if there are multiple

■ Press Game to switch to the game screen

Input terminals that have "GAME" label. (p. 45)

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

HDMI 4 GAME

Video 2 GAME

(example)

Select the remote control mode

Press the key to select



VIDEO →

 For details, see the manual of the connected equipment.

5

8

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▶▶

II/1**>**

Panasonic

Tν

■To return to TV

4

6

9

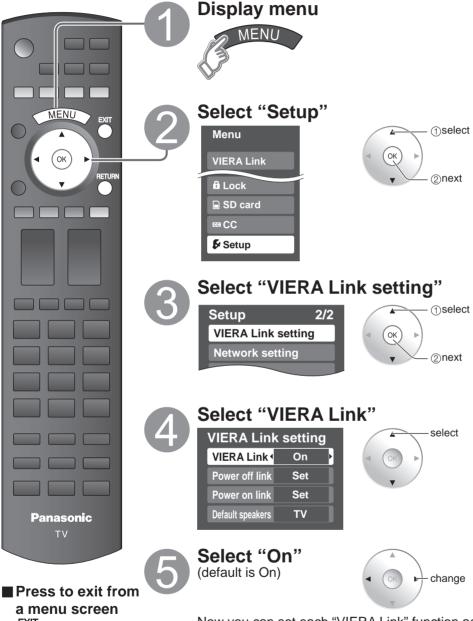
Operate the connected equipment, pointing TV's remote control at the equipment

	VCR MODE	DVD MODE		VCR MODE	DVD MODE
REC	VCR Record	Record	STOP	Stop	Stop
—SKIP— I≺◀ ▶▶	-	Skip Reverse/ Forward	PAUSE	Pause	Pause
SEARCH—	Rewind/Fast Forward	Reverse/Forward	PLAY	Play	Play

(For other operations, see p. 50)

VIERA Link™ Setting

If you connect equipment that has "HDAVI Control" function to a TV with HDMI cable, you can use more convenient functions. Please refer to p. 32-35. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



FXIT

■ Press to return to the previous screen

RETURN



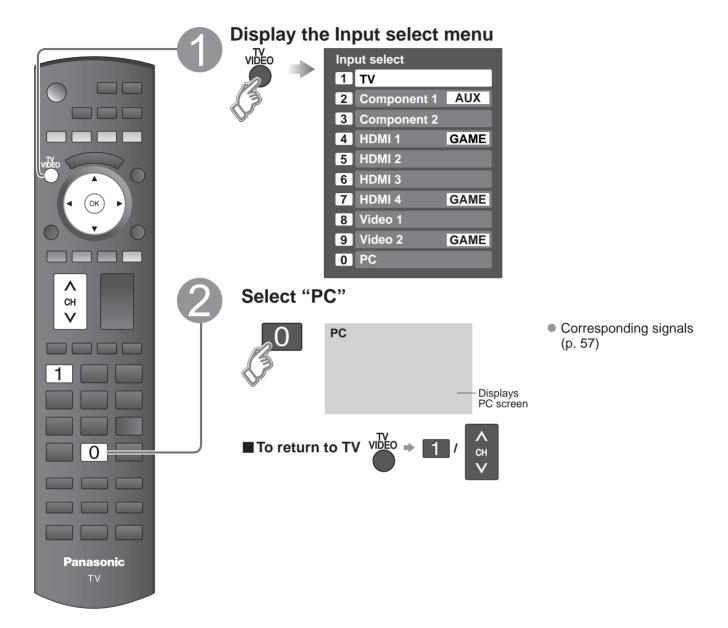
Now you can set each "VIERA Link" function according to your preference (p. 32-35)

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. 48)



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

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

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

VIERA CASTTM

Operate VIERA CAST

You can access information services (TV content) from the Home screen via the Internet.

You need broadband environment to use this service.



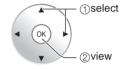
Preparations

- VIERA CAST connections (p. 27)
- Network setting (p. 36)
- VIERA CAST setting (p. 38)



Select the item and press OK





■ Press to return to the Home screen VIEIA

■ Press to exit from

a menu screen

EXIT

This screen is an example. It varies according to the usage conditions.

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

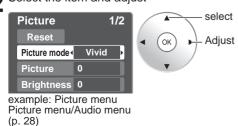
Other settings

■To adjust picture and audio

■ Display "Menu" and select "picture" or "Audio"



2 Select the item and adjust



■To use VIERA Link function

■ Display "Menu" and select "VIERA Link"



2 Select the item and set

VIERA Link

Record now

Stop recording

VIERA Link control

②set

VIERA Link (p. 28, 34)

Recorder

VIERA CAST connections

Contact your Broadband service provider

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

Select wired or wireless connection

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

Connecting to the internet

A Basic connection

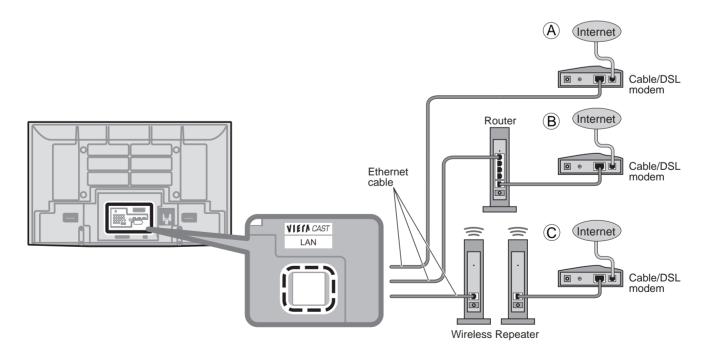
If you are not using the network for connecting anything else but the TV, you could just connect the TV directly to the Cable/DSL Ethernet connection (see schematic below).

B Advanced wired connection

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

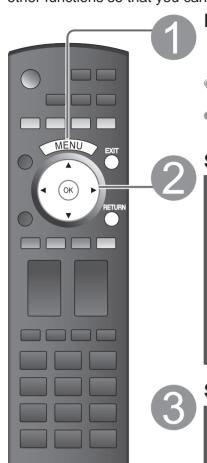
© Advanced wireless connection

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



How to Use Menu Functions

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



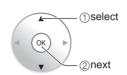
Display menu



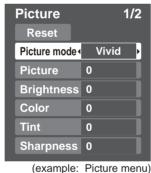
 Displays the functions that can be set (varies depending on the input signal)

Select the menu





Select the item

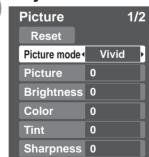




■ Press to exit from a menu screen **EXIT**



Adjust or select





to the previous screen RETURN

■ Press to return



(example: Picture menu)

■ Menu list

■ Men	u li:	st	
Menu		Item	
VIERA Link	Record now Stop recording VIERA Link control Speaker output		
	Res	set	
	Pic	ture mode	
	Pic Col	ture, Brightness, or, Tint, Sharpness	
	Col	or temp.	
	Col	or mgmt.	
	Dig	ital cinema color	
	C.A	T.S.	
	Pro	setting	
<u>P.</u>	Zoc	om adjust	
Picture	РС	adjust	
ē		Video NR	
		3D Y/C filter	
	Ac	Color matrix	
	van	Block NR	
	Advanced picture	Mosquito NR	
	pi	Black level	
	ctur	3:2 pulldown	
	e e	24p Direct in	
		HD size	
	Res	set	
	Bas	SS	
	Tre	ble	
	Bal	ance	
		Al sound	
Au	A	BBE VIVA 3D	
dio	dva	BBE	
	nce	Surround	
	da	Audio leveler	
	Advanced audio	Speaker output	
		HDMI 1 in HDMI 2 in HDMI 3 in	
Timer	Sla	∣HDMI 4 in ep, Timer 1-5	
Lock		op, milor 120	
FOCK			L

	Adjustments/Configurations (alternatives)			
	[Record now/Stop recording]			
	Records programs on the recorder immediately with the TV's remote control (p. 34-35). [VIERA Link control]			
	Selects equipment to access and operate. (Recorder/Home theater/Player/Camcorder) (p.34-35	5)		
	[Speaker output] Selects an audio output. (Home theater/TV) (p. 34-35)	٨		
	● VIERA Link menu is accessible directly by pressing the VIERA Link button on the remote control. ■	J (p. 34)		
	Resets all picture adjustments to factory default settings except for "Advanced picture".		Reset	
	Basic picture mode (Vivid/Standard/Studio ref/Game/Custom) (p. 56)		Picture mode	
	Display range	-20	Tint	0
	Picture/Brightness/Color/Sharpness: 0 - 100		Sharpness	0
	11111			
	Selects a choice of Cool (blue), Normal, or Warm (red) color. (Cool/Normal/Warm)		Color temp.	Cool
	On: Enhances green and blue color reproduction, especially outdoor scenes. (On/Off) Auto: Automatically adjusts the color gamut of the input image to the color gamut of the panel.		Color mgmt.	On
	On: Shows an expanded display of the input image color gamut. Off: Displays the color gamut of the input image as is. (Auto/On/Off)		Digital cinema color	Auto
	Adjusts the brightness and gradation accordingly to optimize contrast. (Off/On)		C.A.T.S.	Off
	Adjust the "Picture mode" setting in more detail. (p. 56) (This setting can be adjusted only when "Custom" or "Photo" is selected.)		Pro setting	
	Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 54)		Zoom adjust	
	Sets PC display (p. 24)		PC adjust	
	Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On)		Video NR	Off
	Minimizes noise and cross-color in the picture. (On/Off)		3D Y/C filter	On
	Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available.		Color matrix	SD
	Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)		Block NR	Off
	Reduces HDTV flicker noise in the contoured sections of an image (Off/On)		Mosquito NR	Off
	Selects Dark or Light. Valid only for external input signals. (Dark/Light)		Black level	Light
	Transfers film to video. (On/Off)		3:2 pulldown	Off
	48Hz: Achieves more cinematic playback by reproducing the movie contents at twice the speed of frames per second. (60Hz/48Hz)		24p Direct in	60 Hz
	Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition signal. (Size 1/ S 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%	Size 2)	HD size	Size1
	Resets Bass, Treble and Balance adjustments to factory default settings.		Reset	
	Increases or decreases the bass response.		Bass	0
	Increases or decreases the treble response.		Treble	0
	Emphasizes the left/right speaker volume.		Balance	0
	Equalizes overall volume levels across all channels and external inputs. (On/Off)		Al sound	On
	BBE ViVA HD3D (High-Definition 3D) Sound provides musically accurate natural 3D image with Hi-Fi sound. The clarity of th is improved by BBE while the width, depth and height of sound image are expanded by BBE's proprietary 3D sound process ViVA HD3D Sound is compatible with all TV programs including news, music, dramas, movies, sports and electronic games.	s. BBE	BBE VIVA 3D	On
	BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism. (BBE	On
	Enhances audio response when listening to stereo. (On/Off)		Surround	Off
	Minimizes volume disparity after switching to external inputs		Audio leveler	0
	Switch to "Off" when using external speakers (On/Off)		Speaker output	On
	"Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected		1 1 1 1 1 1	
	The default setting is "Digital" for HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input	Digital	HDMI3 in	Digital
signal) (Digital/Component 1/Component 2/Video 1/Video 2/PC)		HDMI4 in	Digital	
	The TV can automatically turn On/Off at the designated date and time (p. 46)		Sleep	60
	Locks the channels and programs (p. 40)		0.00p	
	======================================			

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

How to Use Menu Functions

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



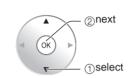
Display menu



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

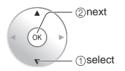
Select "Setup"





Select the item





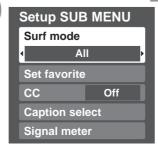
screen

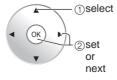


Display Sub Menu



Select the item





■ Menu list

■ Men	u IIS	St	
Menu	Item		
_	SD card		
CC	CC		
	Sur	f mode	
		guage	
	Clock		
	Program channel		
	External devices	Input labels	
	rnal ces	Monitor out	
	Anti Image retention VIERA Link settin	Pixel orbiter	
	age	Time	
	retent	Side bar	
	ion	Scrolling bar	
	VIER.	VIERA Link	
	A Lin	Power off link	
	ık setting	Power on link	
Ser		Default speakers	
tup	Net	work setting	
	VIE	RA CAST setting	
		Auto power on	
	Advanced setup	No signal shut-off	
		No action shut-off	
		SD card LED	
		Play SD card automatically	
	Abo	out	
	Res	set	

■ Sub menu list

Menu	Item	
S	Surf mode	
SUB	Set favorite	
etup MENU	СС	
四点	Caption select	
	Signal meter	

(Continued)

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

Adjustments/Configurations (alternatives) Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital only/Analog only) Sets favorite channels. (p. 17) Displays Closed Caption. (p. 44) (Off/On) Changes the station identifier. (p. 43) Checks the signal strength if interference or freezing occurs on a digital image. (p. 43)

VIERA 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 some Panasonic 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. 33)
- Power on link (p. 33)
- Power off link (p. 33)
- Default speakers (p. 33)
- One-touch theater playback (p. 33)
- Speaker control (p. 35)

Equipment with the "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. 35)
- Providing the setting information (for "HDAVI Control 3") (p. 33)
- Automatic lip-sync function (for "HDAVI Control 3") (p. 33)
- Direct TV Recording (for "HDAVI Control 3") (p. 35)

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.

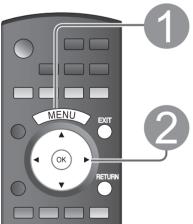
Please refer to the individual manuals for other manufacturers' equipment supporting the VIERA Link function.

■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, HDMI3 or HDMI4 (p. 22), 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 details on the external equipment's connections, please refer to the operating manuals for the equipment.



Follow direction 1 - 5 in "VIERA Link setting" (p. 23)







■ Press to exit from a menu screen

■ Press to return to the previous screen

Set





Automatic Input Switching

Power on link

Power off link

Default speakers

One-touch theater playback

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

Automatic lip-sync function (for "HDAVI Control 3") At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input based on the playback equipment.

• For the RAM theater, the speakers automatically switch to the theater system.

If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed.

When "Set" is selected (p. 30), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected.

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

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

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

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

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

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

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

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

Note

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

[For Recorder]

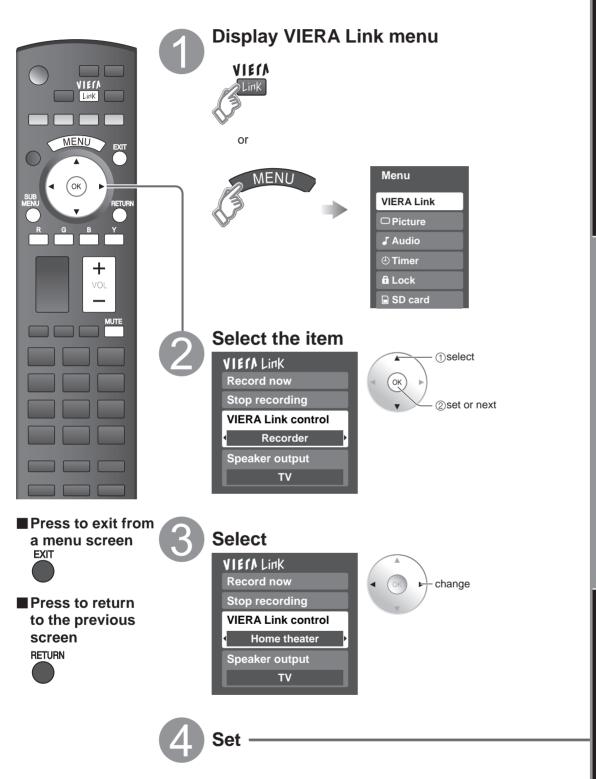
You cannot operate other functions while transmitting TV's information above except Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ④ Channel information).

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

VIERA LinkTM "HDAVI ControlTM"

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

For more details on the of "HDAVI Control" function, refer to p. 32



Speaker control

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

Direct TV Recording (for HDAVI control 3)

(Continued)

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

Control theater speakers with the TV's remote control.

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

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



■Home theater: Adjustment for equipment



- Mute ⇒ 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

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

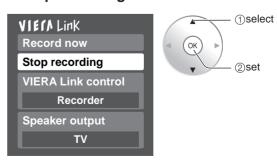
- 3 Operate the equipment with the TV's remote control, pointing it at the TV.
- To operate the equipment, read the manual for the equipment.

Records the current program on the recorder immediately.

1) Select "Record now"



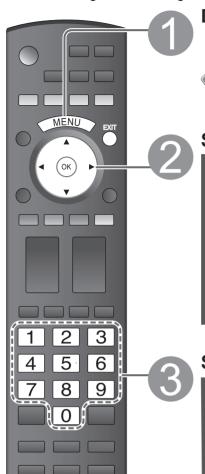
 For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder. ②Select "Stop recording", when you want to stop recording



 Recording will not stop automatically when the program is finished.

Network Setting

This is a setting for connecting to a broadband environment.



Display menu



Select "Setup"





Select "Network setting"

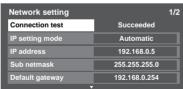


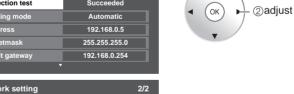


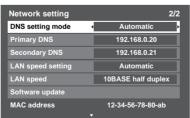
■ Press to exit from a menu screen **EXIT**

■ Press to return to the previous screen RETURN









Connection test

IP setting

- IP setting mode
- IP address
- Sub netmask
- Default gateway

DNS setting

- DNS setting mode
- Primary DNS
- Secondary **DNS**

1) select

Connection speed setting

- LAN speed setting
- LAN speed

Software update

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

1 Select "Connection test" and press OK.

*Press OK again to cancel the test. (It takes a while to cancel the test.)

Network setting 1/2

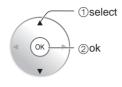
Connection test Succeeded

IP setting mode Manual

IP address 192.168.0.5

Sub netmask 255.255.255.0

Default gateway 192.168.0.254



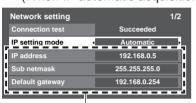
Succeeded: "Connection test" succeeded

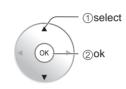
Failed: Check the broadband environment connection and settings and the network settings, and then perform the test again.

Test in progress

---: Test not yet performed

① Select "IP setting mode" and set to "Automatic". (When IP automatic acquisition in DHCP can be used)



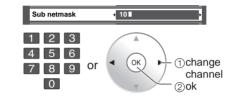


The acquired address is displayed.

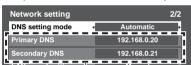
2 Each IP address is acquired automatically.

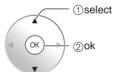
■ Manual setting

- 1 Select "IP setting mode" and set to "Manual"
- 2 Select the item and press OK
- (3) Check the specifications of the broadband router and enter each IP address.



Select "DNS setting mode" and set to "Automatic".
 (When DNS automatic acquisition in DHCP can be used)



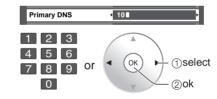


The acquired address is displayed.

- •
- ② Each IP address is acquired automatically. If you are using a broadband router, IP automatic acquisition in DHCP can be used under normal circumstances. If you are not sure, check with the person who installed the equipment, or check the instructions for each device.

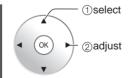
. ■ Manual setting

- (1) Select "DNS setting mode" and set to "Manual"
- (2) Select the item and press OK
- ③ Enter each IP address as was specified by the provider.



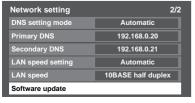
(1) Select "LAN speed setting" (Default is "Automatic")

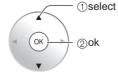
Network setting	2/2
DNS setting mode	Automatic
Primary DNS	192.168.0.20
Secondary DNS	192.168.0.21
LAN speed setting	Automatic
LAN speed	10BASE half duplex



- Normally, select "Automatic".
- If "Connection test" failed, set the "LAN speed setting" to "manual" and then select "10BASE half duplex", "10BASE duplex", "100BASE half duplex" or "100 BASE duplex".
- Cannot be selected when the "LAN speed setting" is "Automatic".
- Changing the settings may make it impossible to connect some types of equipment.

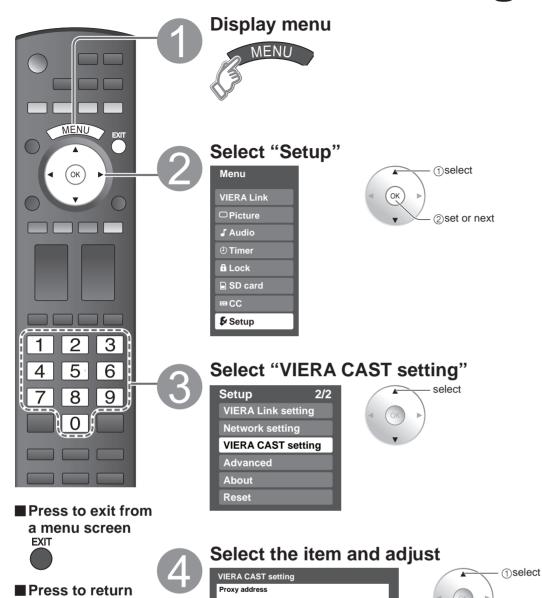
1) Select "Software update"





- 2 Press OK to start the software update screen.
- (3) Follow directions of the screen.
- * Set "Clock" first. (p. 15)

VIERA CAST™ Setting



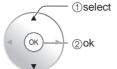


to the previous

screen RETURN

1) Select "Connection test" and Press OK





- When a connection is made to the connection test site and a message is displayed that indicates a successful connection
 - → The settings are correct.
- When the connection is not successful
 - ⇒ An error message is displayed on the screen.
- * Check the connection and settings. (p. 36-37, below)

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

Set only if specified by the provider. It is not required for normal household use.

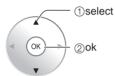
■ Proxy address

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

Setting is only required if specified by the provider.

(1) Select "Proxy address" and Press OK

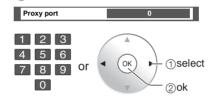




■ Proxy port

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

- (1) Select "Proxy port" and Press OK.
- 2 Enter the Port number.



Entering characters" below)

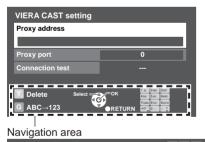
If you perform the proxy settings, it may make it impossible to view VIERA CAST movie content.

② Enter address (see "Entering characters" below)



③ Select "OK"

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



Switches Input mode alphabet to numeric.

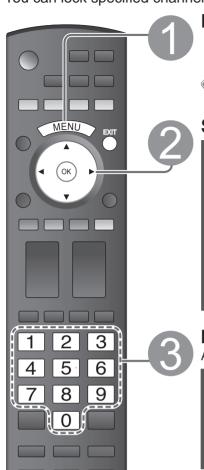
Characters are displayed as shown in following table.

		A											В
		Number of presses											
	1	2	3	4	5	6	7	8	9	10	11	12	
1	@		/	:	~	_	1						1
2	а	b	С	Α	В	С	2						2
3	d	е	f										3
4	g	h	i										4
5	j	k	I										5
6	m	n	0										6
7	р	q	r	s									7
8	t	u	V										8
9	W	х	У	z									9
0	-	,	;	,	"	?	!	()	&	¥	0	0
LAST	Space									*			
-						Spa	ace						#

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

Lock

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

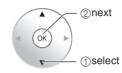


Display menu



Select "Lock"





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

Input your 4-digit password

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





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

■ 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.







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

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

VIERA CAST.

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

CAST.

Select the item



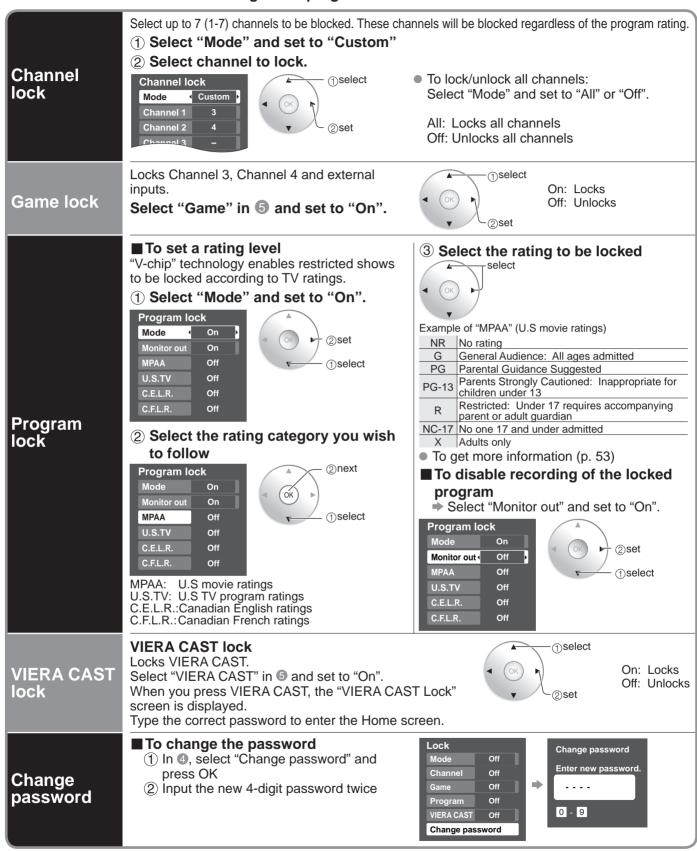


"Channel", "Game", "Program" and VIERA CAST will grey out unless "Custom" is selected in "Mode".





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

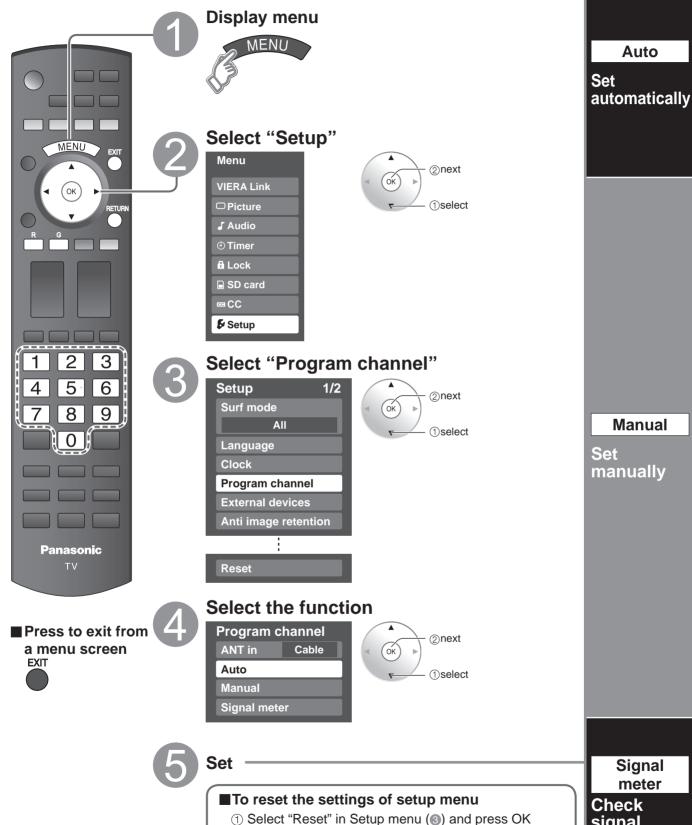


Note

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

Editing and Setting Channels

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



② Input your 4-digit password with number buttons

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

signal

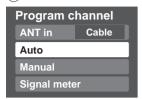
strength

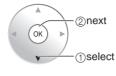
RETURN

Automatically searches and adds available channels to the memory.

- 1 Select "ANT in"
 - ⇒ Select Cable or Antenna (p. 14)

② Select "Auto"





③ Select a scanning mode (p. 15)



Settings are made automatically

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

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

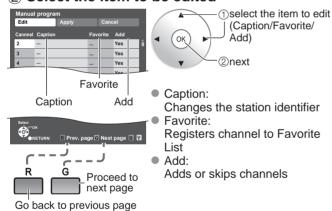
Also, use this to add or skip channels from channel list manually.

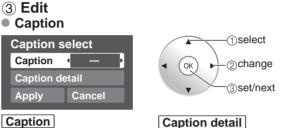
You can select channel tuning mode (Digital only/Analog only) in "Surf mode"(p. 31)

1 Select "Edit"



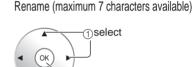
② Select the item to be edited







Favorite Set favorite 1 26-1

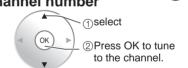




Add

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

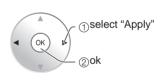




2)next





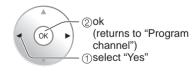


To cancel the Edit

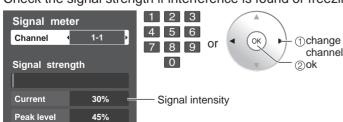








Check the signal strength if interference is found or freezing occurs on a digital image.

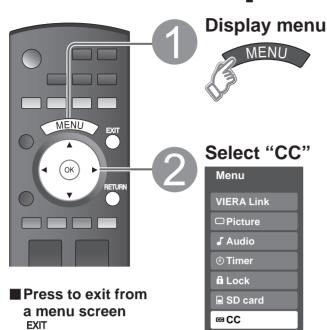


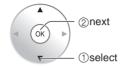
 If the signal is weak, check the antenna. If no problem is found, consult your local dealer.

Note

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

Closed Caption

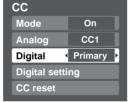




The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting Closed Caption (CC) information. (p.54)

■ 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.)

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

T1-4: Textual information

(Appears over entire screen)

Digital (The Digital Closed Caption

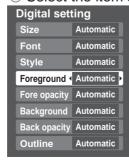
(The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.)

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

■ To reset the settings

Select "CC reset" and press OK

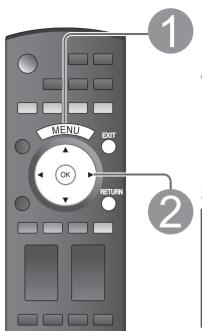
CC

Display

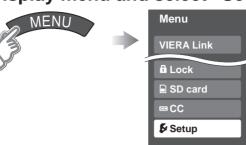
Closed

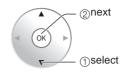
Caption

Input Labels/Monitor Out



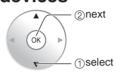
Display menu and select "Setup"





Select "External devices"





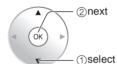
■ Press to exit from a menu screen **EXIT**



Select "Input labels" or "Monitor out"



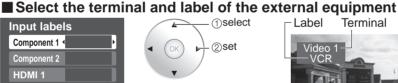
input selection. (In selecting input mode from p. 22 2)



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

Input labels Display labels of







[example]

- Terminals: Comp. 1-2/HDMI 1-4/Video 1-2/PC
- Label: SKIP*/VCR/DVD/CABLE/DBS/PVR/GAME/AUX/ RECEIVER/[BLANK]

For the PC terminal, only "SKIP" is available.

- If "SKIP" is selected, the TV/VIDEO button press will skip its input.
- Each selected label will be displayed on "Input select" screen.

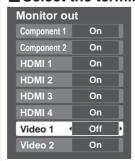
To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 31)

Monitor out

external

devices

Stop output of the picture and audio



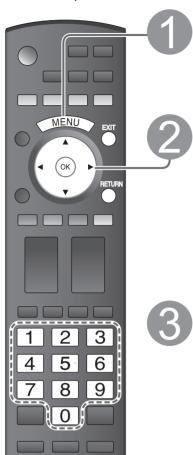


- Select "Off" to stop output of picture and audio. (Video 1/Video 2)
- Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3/HDMI 4 cannot output video signals regardless of "Monitor out" setting. When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, no video signals can be passed through PROG OUT terminal.

Using Timer

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

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

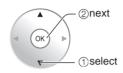


Display menu



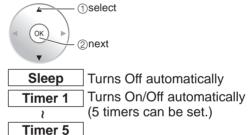
Select "Timer"





Select the timer to set





■ Press to exit from a menu screen



■ Press to return to the previous screen



Note

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

Set the timer

■ To set "Sleep" (Off Timer)

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





0/30/60/90 (minutes)

■ To set "Timer 1-5" (On/Off Timer)

Select the item and set





Channel Select the channel

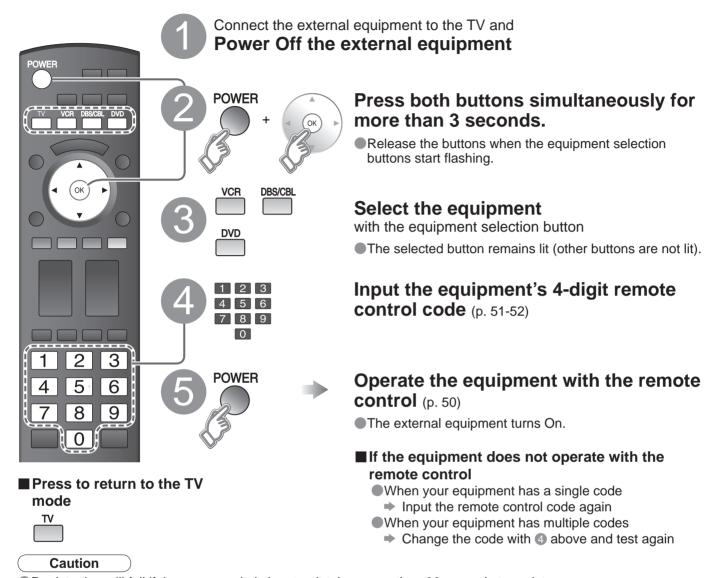
_______ Select the day
_______ SUN/MON/TUE/WED/THU/FRI/SAT
(displays the nearest future date)
MON-FRI/SAT-SUN/DAILY/EVR SUN/EVR MON/

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

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

Programming the Remote to Operate Peripheral Equipment

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

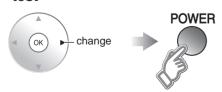


Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

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

1 After step 3 above, change the code and test



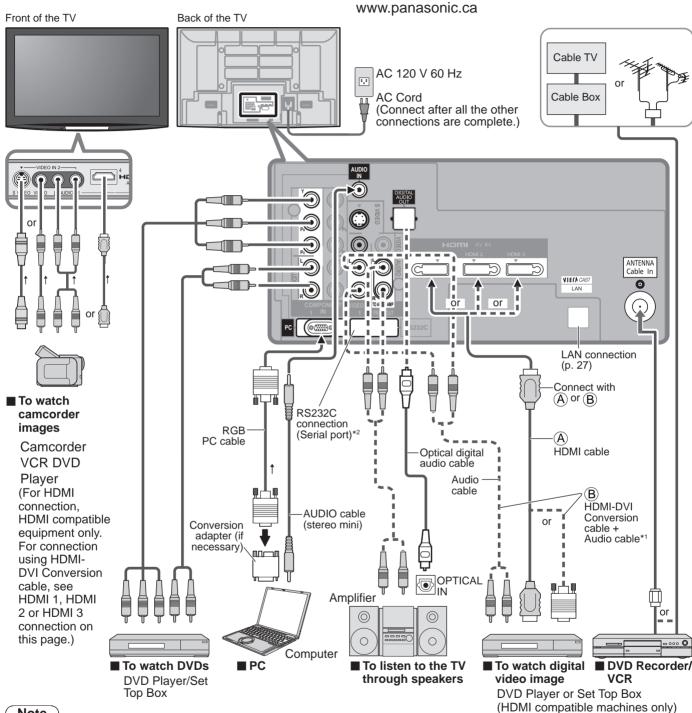
- Operate the equipment with the remote control (p. 50)
- Repeat until the code is found It may take many attempts before the correct code is found

(2) When the correct code is found



Recommended AV Connections

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



- Note
- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 45) cannot be output from "PROG OUT" terminals.
 However, audio output can be obtained from "DIGITAL AUDIO OUT" terminal.
- To prevent howling and image oscillation, set the "Monitor out" setting when connecting the VCR with loop-connection. (p. 30, 45)
- When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, no video signals can be passed through PROG OUT terminal.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.
- *1 Please see p. 28-29 for setup when using an external analog audio cable with an HDMI to DVI cable.
- *2 For details about the RS232C command, contact Customer Care. (p.63, 64) Note that we only provide information in accordance with our disclosure rules.
 - See "RS232C terminal Specification" sheet. (attached separately)

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

Optional HDMI and/or optical cables are not included.

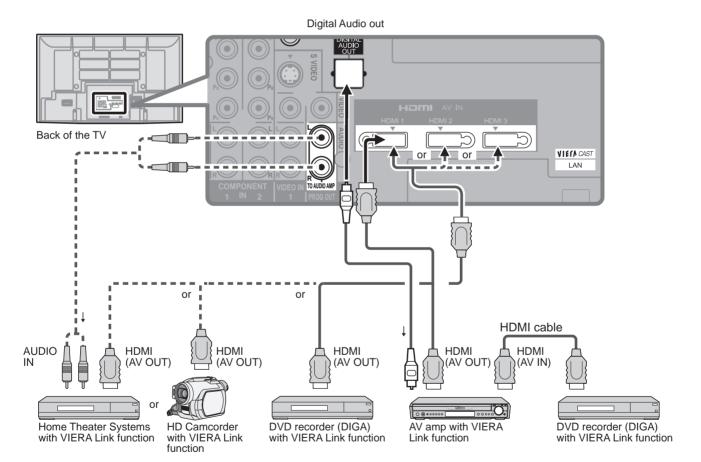
If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off and On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that the DVD recorder (DIGA), RAM theater, and Player theater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

Note

HDMI 1 is recommended.
 When connecting to HDMI 2/HDMI 3/HDMI 4, set the input mode to HDMI 2/HDMI 3/HDMI 4 (p. 22) initially before connecting to HDMI 2/HDMI 3/HDMI 4. After connection, confirm the HDMI control functions (p. 32-35).

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

■ Setting of this unit after connection

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

Note

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

Remote Control Operation/Code List

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

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

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

■ Remote Control Operation List

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

(EY NAME	VCR MODE		DBS/CBL MODE			
	VCR WIODE	(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		
Ť	_	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 DESCRIPTION	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward		
REC	VCR Record	PVR Record *1	PVR Record *1	Record		
STOP	Stop	Stop	Stop	Stop		
PAUSE	Pause	Pause	Pause	Pause		
PLAY	Play	Play	Play	Play		

*1: Combination type

rand	nverter (C) (🛗)						
	Code	Brand	Code	Brand	Code	Brand	Code
IB	0003, 0007, 0008 2092	Hytex i3 Micro	0007 1602	Philips Pioneer	0317, 1305 0144, 0533, 0877, 1877	Supercable Supermax	0276 0883
ericast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Pulsar	0000	Thomson	1256
no	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012, 0059
South	0899	Motorola	0276, 0476, 0810, 1106, 1187,	RadioShack	0883	Torx	0003
rmaster	0883		1254, 1376, 1951	RCA	0021, 1256	Toshiba	0000
ırMax	0883	MTS	1951	Regal	0273, 0279	Tristar	0883
tec	0019	Multitech	0883	Runco Samsung	0000	United Artists V2	0007
max o	0883 1187	Myrio Oak	1602, 1822 0007, 0019	Samsung Scientific Atlanta	0144 0008, 0477, 0877, 1877	Viewmaster	0883 0883
ctor	0476	Optimus	0021	Sejin	1602	Vision	0883
eral Instrument		Pace	0008, 0237, 1877	Sony	1006	Vortex View	0883
dStar	0144	Panasonic	0000, 0021, 0107, 0623	Sprucer	0021	Zenith	0000, 0525, 0899
nlin	0009, 0273	Paragon	0000	Starcom	0003		
able/PVF	R Combination (C) (`					
ericast	0899	Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
no	1822	Motorola	0810, 1106, 1187, 1376	RCA	1256	Thomson	1256
90	1187	Myrio	1822	Scientific Atlanta	0877, 1877	Zenith	0899
eral Instrument	t 0810	Pace	0237, 1877	Sony	1006		'
atellite R	Receiver (S) ()						
aStar	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
ExpressVu	0775, 1170	General Instrument	0869	Memorex	0724	Samsung	1108, 1109, 1276, 1377, 1442
parral	0216	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
sat	1806	Goodmans	1246	Motorola	0869	Sony	0639, 1639, 1640
sdigital	1109	Hisense	1535	NEC	1270	Star Choice	0869
cTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
	1189, 1377, 1392, 1414, 1442, 1443,	HTS	0775, 1775 0749, 1142, 1442, 1443, 1444, 1749	Panasonic	0152, 0247, 0701, 1189, 1786	Toshiba UltimateTV	0749, 0790, 1285, 1749 1392, 1640
	1444, 1609, 1639, 1640, 1749, 1856	Hughes Network Systems	0748, 1142, 1442, 1443, 1444, 1749	Pansat Paysat	1807 0724	Ultimate I V Ultrasat	1392, 1640
Network Syste	em 0775, 1005, 1170, 1505, 1775	Humax	1781, 1790	Philips	0099, 0722, 0724, 0749, 0856, 1076,	Uniden	0722, 0724
pro	0775, 1005, 1776, 1305, 1775	iLo	1535	. тро	1142, 1442, 1749	US Digital	1535
ostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	USDTV	1535
ressvu	0775, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
tec Star	1821, 1948	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
BS/PVR	Combination (S) ()						
ExpressVu	0775, 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
cTV	0099, 0392, 0639, 1076, 1142, 1377,	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
	1392, 1442, 1443, 1444, 1640	Hughes Network	1142, 1442, 1443, 1444	Proscan	0392	Tivo	1142, 1442, 1443, 1444
Network Syste	em 0775, 1505	Systems		RCA	1392	Zenith	1810
hpro	0775, 1505	JVC	1170	Samsung	1442		
CR (V) (vor)						
3	1972	GE	0035, 0060, 0202, 0240, 0761, 0807,	MTC	0000, 0240	Sansui	0000, 0041, 0067, 0209, 0479
urian	0000		1035, 1060, 2613	Multitech	0000, 0072	Sanyo	0046, 0047, 0104, 0159, 0240
niral	0048, 0209	Go Video	0432, 0526, 0614, 0643, 1137	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
entura	0000	GoldStar	0037, 0038, 1137, 1237	Nikko	0037	Sears	0000, 0035, 0037, 0042, 0046 0104, 0105, 1237
)	0278	Gradiente	0000	Nikon	0034		
a ni	0000, 0037, 0124, 0307, 0468	Harley Davidson Harman/Kardon	0000	Niveus Media	1972 0240	Sharp	0048, 0807, 0848 0072
nware	0041, 0061, 0106, 0175, 0242 1972	Harman/Kardon	0038, 0075, 0081 0068, 0072	Noblex Northgate	1972	Shintom Shogun	0240
gro	1137	Headquarter	0046	Olympus	0035, 0226	Singer	0072
erica Action	0278	Hewlett Packard	1972	Onkyo	0222	Sonic Blue	0614, 0616, 1137
erican High	0035	HI-Q	0047	Optimus	0037, 0048, 0104, 0162, 0432, 0593,	Sony	0000, 0032, 0033, 0034, 0035
a		Hitachi	0000, 0041, 0042, 0089, 0105, 2613		1048, 1062, 1162, 1262		1032, 1972
io Dunomico	0240	TITLACTII		0.1	0002, 0184, 0209, 0479, 1479	Stack 9	1972
io Dynamics	0040	Howard Computers	1972	Orion			
iovox	0040 0037, 0278	Howard Computers HP	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226,	STS	0042
iovox umark	0040 0037, 0278 0240	Howard Computers HP Hughes Network					0042
iovox umark & Howell	0040 0037, 0278 0240 0104	Howard Computers HP Hughes Network Systems	1972 0042, 0739		0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616,	STS Sylvania	0042 0000, 0035, 0043, 0081, 0110 1593, 1781
ovox umark & Howell	0040 0037, 0278 0240	Howard Computers HP Hughes Network Systems Humax	1972 0042, 0739 0739, 1797, 1988	Panasonic	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809	STS Sylvania Symphonic	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593
ovox umark & Howell sonic	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479	Howard Computers HP Hughes Network Systems Humax Hush	1972 0042, 0739 0739, 1797, 1988 1972		0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262,	STS Sylvania Symphonic Systemax	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972
ovox umark & Howell sonic	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479	Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER	1972 0042, 0739 0739, 1797, 1988 1972 1972	Panasonic Penney	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237	STS Sylvania Symphonic Systemax Tagar Systems	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972
ovox umark & Howell sonic	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479	Howard Computers HP Hughes Network Systems Humax Hush	1972 0042, 0739 0739, 1797, 1988 1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809	STS Sylvania Symphonic Systemax	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972
ovox umark & Howell ssonic	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0037 0035, 0102	Howard Computers HP Hughes Network Systems Humax Hush IBUYPOWER Instant Replay	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226	Penney Pentax	0035, 0077, 0102, 0162, 0225, 0225, 0227, 0246, 0327, 0486, 0514, 0616, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739,	STS Sylvania Symphonic Systemax Tagar Systems Tashiko	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 0037
ovox Jamark & Howell sonic c on iive Works eer	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0037 0035, 0102 2167 0081 0072, 0278	Howard Computers HP Hughes Network Systems Humax Hush IBUYPOWER Instant Replay Jensen JVC KEC	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278	Penney Pentax Philco Philips	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035, 0041, 0110, 0618, 0739, 1081, 1181	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teac Technics	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 0037 0041 0000, 0041 0035, 0162, 0246
ovox umark & Howell sonic on ive Works er	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0035, 0102 2167 0081 0072, 0278 1137	Howard Computers HP Hughes Network Systems Humax Hush IBUYPOWER Instant Replay Jensen JVC KEC Kenwood	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067	Penney Pentax Philco Philips Pilot	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0376, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teach Technics Teknika	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 1972 0037 0041 0000, 0041 0000, 0041 0035, 0162, 0246 0000, 0035, 0037
ovox umark & Howell sonic on ive Works er	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278	Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER Instant Replay Jensen JVC KEC KEC Kenwood KLH	1972 0042, 0739 0739, 1797, 1988 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072	Penney Pentax Philico Philips Pilot Pioneer	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 0037 0041 0000, 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0037 0000
ovox umark & Howell sonic c on cive Works er : : : : : : : : : : : : : : : : : :	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278	Howard Computers HP Hughes Network Systems Humax Hush IiibUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037	Penney Pentax Philico Philips Pilot Pioneer Polk Audio	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas Tivo	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996
ovox umark & Howell sonic c on cive Works er :: Vision en	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0035, 0102 2167 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0047, 0240	Howard Computers HP Hughes Network Systems Humax Hush Illustraction Hush JVC KEC Kenwood KLH Kodak LG	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010	Penney Pentax Philico Philips Pilot Pioneer Polk Audio Presidian	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0376, 0485, 0614, 0616, 0813, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tattung Teach Technics Teknika Thomas Tivo TMK	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 1972 0037 0041 0000, 0041 0000, 0041 0000, 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240
ovox umark & Howell ssonic c on titive Works terer !! !Vision en	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0035, 0041, 0060, 0162, 1035	Howard Computers HP Hughes Network Systems Humax Hush IBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys	1972 0042, 0739 0739, 1797, 1988 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072 0072	Penney Pentax Philco Philips Pilot Pioneer Polk Audio Profitronic	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081 1593 0240	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas Tivo	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 1972 0037 0041 0000, 0041 0000, 0041 0000, 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240
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ovox mark mark & Howell sonic on itive Works erer itive itive Works erer itive it	0040 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0348, 0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613 0739 0038, 0039 0000 0037 0037 0037 0032 0000, 0002, 0037, 0043, 0061, 0068, 0121, 0184, 0208, 0209, 0212, 0278, 0479, 0561, 0563, 0574, 1278, 1479, 1593	Howard Computers HP Hughes Network Systems Humax Hush Hush IlisuryPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Matsushita Media Center PC MEI Memorex MGA MGN Technology Microsoft	1972 0042, 0739 0739, 1797, 1988 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0036, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0000, 0208 0072 0037 0038, 0101, 0101 1972 0039, 0101 1972 0037 0039, 1278 0000, 035, 039, 0081, 0110, 0149, 0563, 0593, 1336, 1593, 1781 0240 0035, 0081 0037 0035, 0162, 1162 1972 0035 0000, 035, 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0397, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240 0034, 0061, 0240 00240, 1972	Penney Pentax Philico Philips Pilot Pioneer Polik Audio Presidian Profitronic Proscan Protec Pulsar Quartz Quartz Quartz Quarta RadioShack Radix Randex RCA Realistic ReplayTV Ricavision Rico	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0376, 0485, 0614, 0616, 0837, 1035, 1062, 1162, 1244, 1262, 1562, 1807, 1808, 1809 0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237 0042, 0105, 0035 0035, 0037, 0018, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0039 0046 0046 0046 0046 0035, 0077, 0162, 1035, 1162 0000, 1037 0037 0037 0047 0037 0040 0050, 0202, 0761, 1060 0050, 0202, 0761, 1060 0050, 0202, 0761, 0060, 0072, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613 0000, 0335, 0037, 0046, 0047, 0048, 0104 0614, 0616 1972 0034	STS Sylvania Symphonic Systemax Tagar Systems Tashiko Tatung Teac Technics Teknika Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videosonic Videosonic Villain Voodoo Wards White Westinghouse KR-1000 Yamaha Zenith	0042 0000, 0035, 0043, 0081, 0110 1593, 1781 0000, 0593, 1593 1972 1972 0037 0041 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 043, 0045, 0212, 0845, 1006 1972, 1988, 1996 037, 0240 1972 0240 043, 0045, 0061 033, 0040 0040, 0045, 0061 0337 0240 1972 0000 1972 0000 1972 0000, 0035, 0042, 0047, 0046 0072, 0081, 0149, 0121, 0240 0072, 0081, 0149, 0172, 0240 0072, 0081, 0149, 0172, 0240 0072, 0090, 0035, 0042, 0047, 0046 0072, 0090, 0035, 0042, 0047, 0046 0072, 0090, 0035, 0072

Remote Control Operation/Code List (Continued)

■Remote Control Code List

Brand	Code	Brand	Code	Brand	Code	Brand	Code
irecTV	0739	Hughes Network	0739	Philips	0739	Tivo	0739
	•	Systems		Samsung	0739		
VD-Reco	order (V) (DBS/CBL)						
gnavox	0000						
VR (V) (DBS/CBL \						
SS (V)	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
ienware	1972	Systems	0.00	Panasonic	0614, 0616, 1807, 1808, 1809	Tivo	0618, 0636, 0739, 1337
aptive Works	2167	Humax	0739, 1797, 1988	Philips	0618, 0739	Toshiba	1008, 1972, 1988, 1996
/berPower	1972	Hush	1972	Pioneer	1337	Touch	1972
ell	1972	iBUYPOWER	1972	RCA	0880	Viewsonic	1972
recTV ateway	0739 1972	LG Linksys	2010 1972	ReplayTV Samsung	0614, 0616 0739	Voodoo ZT Group	1972 1972
o Video	0614	Media Center PC	1972	Sonic Blue	0614, 0616	21 Gloup	1972
ewlett Packard	1972	Microsoft	1972	Sony	0636, 1972		
oward Computers	s 1972	Mind	1972	Stack 9	1972		
Р	1972	Niveus Media	1972	Systemax	1972		
OVD (Y) (bwb)						
ccurian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo	0698, 0752
dcom	1094	Enterprise	0591	Marantz	0539	Samsung	0199, 0490, 0573, 0820, 0899, 1
wa	0641	ESA	1268	McIntosh	1273	0 1	1075, 1470
co	0695, 0770, 0899, 1089 0790	Fisher Funai	0670 0675, 1268, 1334	Memorex Microsoft	0695, 0831, 1270 0522, 1708, 2083	Sansui Sanyo	0695 0670, 0695, 0873
legro	0869	Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science	1158
	orks 0872, 1245	GE	0522, 0717, 0815	Mitsubishi	0521, 1521	Sharp	0630, 0675, 0752, 1256
MW	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833,	Momitsu	1082	Sharper Image	1117
oex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		0869, 1044, 1075, 1099, 1144, 1158, 1304, 1730	NAD	0692, 0741	Sherwood	0633, 0770, 1043, 1077
770		Co Visios	·	Nakamichi	1222	Shinsonic Sigma Davigna	0533, 0839
rgo spire Digital	1023 1168, 1407	Go Vision GoldStar	0741	NEC Nesa	0785 0717	Sigma Designs Sonic Blue	0674 0869, 1099
star	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony	
udiologic	0736	Greenhill	0717	NexxTech	1402	Cony	0533, 0864, 1033, 1069, 1070, 1 1432, 1433, 1516, 1533, 1536, 1
udiovox	0790, 1041, 1072, 1121, 1122	Harman/Kardon	0582, 0702	Norcent	0872, 1003, 1107, 1265		1791, 1824, 1892, 1903, 1904, 1 1981, 2020, 2043
rion	1072	Helios	2080	Nova	1517		
& K	0655, 0662	Hello Kitty	0831	Onkyo	0503, 0627, 0792, 1769	Sova	1122
BK el Canto Design	1224 1571	Hitachi Hiteker	0573, 0664, 1247 0672	Oppo OptoMedia Electronic	0575, 1224 1525 cs 0896	Sungale SVA	1074 0860, 1105
aupunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
ue Parade	0571	iLo	1348, 1472	Panasonic	0458, 0490, 0632, 0703, 1010, 1011,	Symphonic	0675
roksonic	0695, 1419	Initial	0717, 1472		1362, 1462, 1464, 1490, 1641, 1762, 1907, 1908, 1909, 1910, 1925, 1986,	TAG McLaren	0894
AVS	1057	Insignia	1268, 2095		1990, 2017, 2060, 2061, 2062	Teac	0790
inea	0831	Integra	0627	DI T	2075	Technics	0490, 0703
inego ineVision	1399 0833, 0869, 0876	Jaton JBL	0702	Philips Philips	0675 0503, 0539, 0646, 0675, 1267, 1340,	Technosonic Techwood	0730 0692
itizen	0695, 1277, 1587, 2116	JSI	1423	Timpo	1354, 2056, 2084	Terapin	1031
oby	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
raig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1 1608, 1769, 1854
urtis Mathes	1087	Kawasaki Kenwood	0790 0490, 0534, 0682	Polk Audio Portland	0539 0770	Tredex	
yberHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537	KLH	0717, 0790, 1020, 1149	Presidian	0675, 1072	Urban Concepts	0799, 0800, 0803, 0804 0503
aewoo	0705, 0784, 0833, 0869, 1169, 1172,	Konka	0711, 0730, 1020, 1143	Princeton	0674	US Logic	0839
	1234, 1242, 1441	Koss	0651, 0896, 1423	Proscan	0522	Venturer	0790
enon	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
esay	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
iamond Vision isney	1316 0675, 1270	Lenoxx	0591, 0741, 0869	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox Xwave	0522, 1708, 2083 1001
ual	1068, 1085	LiteOn	1058, 1158, 1416, 1440, 1656	Rio	0869	Yamaha	0490, 0497, 0539, 0545
urabrand	1127	Loewe	0511	RJTech	1360	Zenith	0503, 0591, 0741, 0869
VD2000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
ectrohome	2116		1472, 1506	Rowa	0823		
DVD-Reco	order (Y) (🛗)						
ccurian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432,
oex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340		1433, 1536
pire Digital	1168	Go Video	0741, 1158, 1304, 1730	Pioneer	0631	Sylvania	0675
oksonic tizen	1419 2116	JVC	1348 1164, 1275	Polaroid RCA	1086, 2130 0522	Toshiba Zenith	1588 0741
oby	1086	LG	0741	Samsung	0490, 1470	_Ciliui	0/41
/berHome	1129, 1502	LiteOn	1158, 1416, 1440	Sensory Science	1158		
ectrohome	2116	Magnavox	0646, 0675, 1506	Sharp	0675		
Blu-ray Di	isc (Y) (DVD)						
ia ray D	0741	Philips	2084	Samsung	0199		<u> </u>
anasonic	1641, 2061, 2062	Pioneer	0142	Sony	1516		
ID-DVD (DVD						
טעט-טו ן פ	0741	Onkyo	1769	RCA	1769	Toshiba	1769
	DVD \	Olikyo	1703	NOA	11/09	TUSHIIJd	1103
HTiB (Y) (
wa	0641	Panasonic	0458, 1779, 1907, 1908, 1909, 1910, 1925, 1990, 2017	Rio	0869	Teac	0790
udiovox _H	0790	Philips		Sherwood Sonia Plua	1077	Toshiba	1854
	0790 0651	Philips Polk Audio	1267 0539	Sonic Blue Sony	0869 1824, 1892, 1903, 1904, 1934, 1981,	Venturer Yamaha	0790 0497
OSS							

Ratings List for Lock

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

■ U.S. MOVIE RATINGS (MPAA)

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

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

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

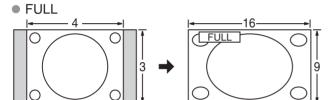
Technical Information

Closed Caption (CC)

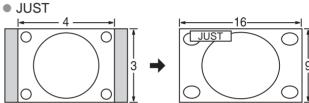
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM, or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to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

Aspect Ratio (FORMAT)

Press the FORMAT button to cycle through the aspect modes. This lets you choose the aspect depending on the format of the received signal and your preference. (p. 17) (e.g.: in case of 4:3 image)

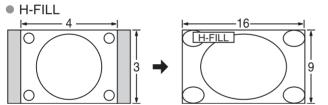


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

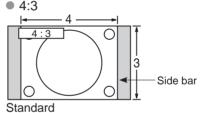


Stretches to justify the 4:3 image to the four corners of the screen.

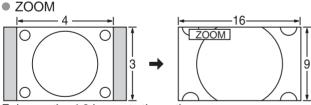
(Recommended for normal TV broadcast)



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



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



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

Note

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

Zoom adjust

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

- ① Select "Zoom adjust" on the "Picture" menu. (p. 28-29)
- ② V-position: Vertical position adjustment

3 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** standards

Movie: SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with an audio format that is

either MPEG-1/Layer-2 format or Dolby Digital format

(A modified data with a PC may not be displayed correctly.)

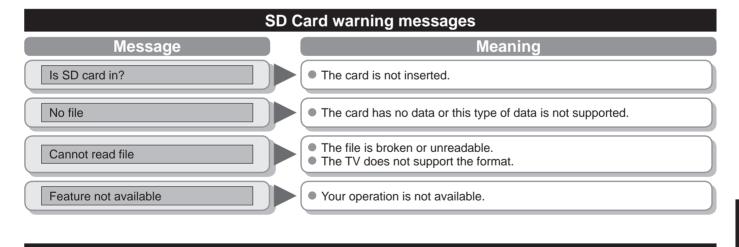
* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard ** EXIF (Exchangeable Image File Format)

Note

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

Cautions in handling SD Card:

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



GalleryPlayer warning messages There is a problem with your TV decoder.

Cannot display image due to

If this message appears, please contact Panasonic Service Center for assistance.

Refer to page 63 (Customer Services Directory), page 62, 64 (Limited Warranty)

Cannot display image on SD card.

incorrect ID data.

There is a problem with the data. Check the data inside the SD card.

Technical Information (Continued)

VIERA Link™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 32)

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

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in", "HDMI 3 in" or "HDMI 4" menu screen. (p. 28)
 Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

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

Caution

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

DIGITAL AUDIO OUT terminals

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

Caution

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG OUT terminals.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.
- When playing movie on SD Card Movie player, when the sound has been recorded in Dolby Digital, the output from the DIGITAL AUDIO OUT terminal will be Dolby Digital. When the sound is recorded in the other formats, the output will be PCM.
 See pages 48-49 for more information

Picture mode

Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.

Standard: Recommended for normal viewing conditions with subdued room lighting.
 Studio ref: Provides high-quality gradation and color tone picture for a cinema-like feel.

Game: For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 45)

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

Photo is displayed in JPEG mode.

Note

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

Pro setting

Normal: Resets all Pro setting adjustments to factory default settings. (Set/No)

Panel brightness: Selects the display panel brightness.

(High: Vivid, Mid: Standard, Low: Studio ref)

Contour emphasis: Adjusts the contour emphasis of the image. (On/Off)

Gamma adjust: Gamma correction. Adjusts the intermediate brightness of the image. (Normal/Mid/Full 1/Full 2)

Black extension:
W/B high R:
W/B high B:
W/B low R:
W/B low B:
Adjusts the dark shades of the image in gradation.
Adjusts the white balance for light red areas.
Adjusts the white balance for dark red areas.
W/B low B:
Adjusts the white balance for dark blue areas.
Adjusts the white balance for dark blue areas.

AGC: Increases the brightness of dark signal automatically. (On/Off)

Input signal that can be displayed

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

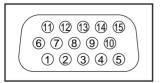
	horizontal frequency (kHz)		COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
1,125 (1,080) /24p	26.97	23.98		*	
1,125 (1,080) /24p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

Note

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

PC Input Terminals Connection

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency
 of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.
- The maximum resolution: 1,280 x 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
5	GND (Ground)	10	GND (Ground)	15	NC

Technical Information (Continued)

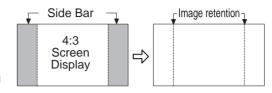
Side Bar

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

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

See pages 30-31 for more information

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



Scrolling bar

Scrolling bar: To prevent "Image retention", scrolls white horizontal bar from top to bottom on a black screen

- Press any key except the POWER key to return to previous screen.
- You will return to the previous screen if no key operation has been performed for 15 minutes. See pages 30-31 for more information



Care and Cleaning

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

Display panel

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

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

Cabinet

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

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

Pedestal

Cleaning

Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth. Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)

coating. (It using a chemically-freated 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.)

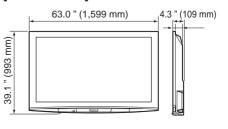
Specifications

		TH-58PZ850U	TH-65PZ850U	
Power Source		AC 120 V, 60 Hz		
	Maximum	742 W	792 W	
Power Consumption	Standby condition	0.2 W	0.2 W	
D	Drive method	AC type		
Plasma Display	Aspect Ratio	16:9		
ma lay	Visible screen size	58 " class (58.0 inches measured diagonally)	65 " class (64.7 inches measured diagonally)	
panel	(W x H x Diagonal)	50.5 " × 28.4 " × 58.0 " (1,284 mm × 723 mm × 1,474 mm)	56.4 " × 31.7 " × 64.7 " (1,434 mm × 807 mm × 1,646 mm)	
ine	(No. of pivolo)	2,073,600 (1,920 (W) × 1,080 (H))	(1,434	
	(No. of pixels)	[5,760 × 1,080 dots]		
Sound	Audio Output	Super Slim SP (2.5 W) × 2, Woofer (13 W) × 2		
PC signals		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
Channel Capability (Digital/Analog)		VHF/UHF: 2 - 69, CATV: 1 - 135		
Operating Conditions		Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)		
	VIDEO IN 1-2	AUDIO L-R: RCA PIN Type x 2 0.5 V [rm	[p-p] (75 Ω)	
Col	COMPONENT INPUT 1-2	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
nnec	HDMI 1-4	TYPE A Connector × 4 ■ This TV supports "HDAVI Control 3" function.		
Connection Terminals	PC	D-SUB 15PIN: R,G,B/0.7 V [p-p] (75 Ω) HD, VD/1.0 - 5.0 V [p-p] (high impedance) AUDIO L-R: Stereo Mini Jack (Φ3.5 mm) × 1		
m	RS232C (Serial)	D-sub 9pin for external control		
iinals	LAN (for VIERA CAST IPTV)	RJ45 (10BASE-T/100BASE-TX)		
•	Card slot	SD CARD slot × 1		
	AV PROG OUT	VIDEO: RCA PIN Type \times 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type \times 2 0.5 V [rms]		
	DIGITAL AUDIO OUT	PCM/Dolby Digital, Fiber Optic		
FEAT	TURES	3D Y/C FILTER CLOSED CAPTION IPTV (VIERA CAST) V-Chip BBE VIVA 3D Photo viewer Movie player HDAVI Control 3		
Dime (W ×	Including pedestal	56.9 " × 37.4 " × 16.2 " (1,445 mm × 949 mm × 409 mm)		
Dimensions (W×H×D)	TV Set only	56.9 " × 35.4 " × 4.3" (1,445 mm × 898 mm × 109 mm)	63.0 " × 39.1 " × 4.3 " (1,599 mm × 993 mm × 109 mm)	
	Including pedestal	137.4 lb. (62.3 kg)		
Mass	TV Set only	128.6 lb. (58.3 kg)	160.3 lb. (72.7 kg)	
	,	1 ''9'	1	

[TH-58PZ850U]

56.9 " (1,445 mm) 4.3 " (109 mm) 4.3

[TH-65PZ850U]



Note

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

FAU

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 63, 64)

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









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

Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 43). If the signal is weak, check the antenna and consult your local dealer.





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

- Is the HDMI cable connected properly? (p. 48, 49)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 57)
- Use equipment compliant with EIA/CEA-861/861B.

Recording does not start immediately

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

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Are the batteries new?
- Select the correct remote control mode (p. 13, 22)

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

Screer

- Check Picture menu (p. 28)
- Check the cable connections. (p. 9-12)
- Check that the correct input has been selected. (p. 22)

Only spots are displayed instead of images

- Check the channel settings. (p. 42)
- 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. 28) and volume.
- Check the AV cable connections. (p. 9-12)
- Check that the correct input has been selected. (p. 22)

Black Box appears

Change settings of Closed Caption (CC). (p. 44)

No sound is produced

- Are the speakers' cables connected correctly? (p. 48)
- Is "Sound Mute" active? (p. 13)
- Is the volume set to the minimum?
- Is "Speaker output" set to "Off"? (p. 28)
- Change "SAP" settings. (p. 16)
 Check "HDMI 1 in", "HDMI 2 in", "HDMI 3 in" or "HDMI 4 in" settings. (p. 28)

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.

Whirring sound is heard

 The sound is from the 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.

Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

On-Site or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

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

Customer Services Directory

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Service in Puerto Rico

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

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

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

LIMITATIONS AND EXCLUSIONS

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

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

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre: 1-800 #: 1-866-330-0014

Email link: <u>www.vieraconcierge.ca</u>

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

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

•
Limited '
Warranty
(for
Canada

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Note

Customer's Record The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.		
Model Number	Serial Number	
Anotación del cliente El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído o lo pierda, y también para disponer de los servicios que le ofrece la garantía.		
Modelo	Número de serie	

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