Customer's Record

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

Model Number

Serial Number

Panasonic Corporation

Web Site: http://panasonic.net/



Model No. TC-42PX34X TC-50PX34X

Owner's Manual 42"/50" Class 720p Plasma HDTV (41.6/49.9 inches measured diagonally)



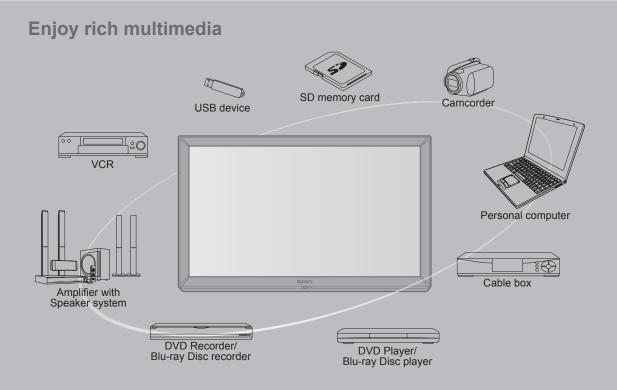


English

Thank you for purchasing this Panasonic product. 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.



Experience an amazing level of multimedia excitement



■ Do not display a still picture for a long time

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





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

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

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.

VIECA Link[™] VIERA Link[™] is a trademark of Panasonic Corporation Panasonic Corporation.

HDMI, the HDMI logo and High-Definition Multimedia Interface are нат trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

SDXC Logo is a trademark of SD-3C, LLC.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.



DLNA®, the DLNA Logo and DLNA CERTIFIED™ are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

HDAVI Control[™] is a trademark of Panasonic Corporation.





This product is licensed under the AVC patent portfolio license for the personal and non-commercial 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.

Contents

Please read before using the unit

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Safety Precautions





WARNING: To reduce the risk of electric shock, do not remove cover or back.

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

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

No user-serviceable parts inside. Refer servicing to qualified service personnel.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. WARNING: 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 7) accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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



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

WARNING/CAUTION (TV set)

WARNING

Small parts can present choking hazard if accidentally swallowed.

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

Set up

This Plasma TV may fall and can cause personal injury or even death if not installed correctly. To prevent personal injury or death, follow these warnings:

Install the Plasma TV in accordance with the manufacturer's recommended pedestal or stand, corresponding hardware and installation instructions. This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability. The following accessories are manufactured by Panasonic Corporation.

 Wall-hanging bracket (Angled) TY-WK4P1RW

• Be sure to ask a gualified technician to carry out the installation and set-up.

Two or more people are required to install or remove the television.

 Some wall mounts (wall-hanging brackets) are not designed to be mounted to walls with steel studs or old cinder block constructions.

Ask your dealer or licensed contractor to properly secure the wall-hanging bracket.

- Do not route the TV's power cord inside the wall. The power cord was not designed for in-wall mounting. Doing so can lead to fire hazard.
- Do not place the Plasma TV or its stand on a sloped or unstable surface.

The Plasma TV may fall or tip over.

- Do not support the Plasma TV on a non-specified pedestal.
- Do not place the Plasma TV on furniture that can easily be used as steps, such as a chest of drawers.
- Do not climb or allow children to climb on the Plasma TV
- Place or install the Plasma TV where it cannot be pushed, pulled over or knocked down.
- Route all cords and cables such that they cannot be tripped over or pulled by curious children.

- 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. In the unlikely event that you receive a shock from this product it is possible that your household outlet may be wired improperly. Have an electrician verify that the TV's outlet is properly wired. If the symptom persists, have the TV serviced by a qualified authorized technician.
- To prevent the spread of fire, keep candles or other open flames away from this product at all times



AC Power Supply Cord

To prevent fire or electric shock:

- The Plasma TV is designed to operate on a 110-127 V AC, 60 Hz service. Insert the power cord plug as far as it will go into the wall socket. If the plug is not fully inserted, heat may generate, which could cause a fire.
- The included power cord is for use with this unit only.
- Do not use any power cord other than that provided with this TV.
- Do not handle the power cord plug with wet hands.
- Do not do anything that might damage the power supply cord.
- When disconnecting the power supply cord, hold the plug, not the cord.
- Do not use the power supply cord if the plug or cord is damaged.
- Replace the cord or contact your Authorized Service Center.
- Do not use a 3-prong to 2-prong AC plug adapters to connect your TV's plug to the wall outlet.
 Doing so will defeat the TV plug's safety feature, which can lead to a shock hazard. If the wall outlet does not accommodate a 3-prong plug, have a qualified electrician replace your outlet and check the associated wiring.
- Handling the power supply cord
- Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)
- Ensure that the power plug is easily accessible.
- Ensure the earth pin on the power plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.
- Do not touch the power plug with a wet hand. (This may cause electrical shock.)
- Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)
 - Do not move the TV with the cord plugged in the socket outlet.
 - Do not place a heavy object on the cord or place the cord near a high-temperature object.
 - · Do not twist the cord, bend it excessively, or stretch it.
 - Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
 - · Do not use a damaged power plug or socket outlet.
- 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 supply cord immediately. Continued use of the TV under these conditions might cause a fire or permanent damage to the TV. Have the TV evaluated by an Authorized Service Center. Servicing of the TV by unauthorized personnel is strongly discouraged due to its high voltage.

 If water or an object gets inside the Plasma TV, if the Plasma TV is dropped, or if the enclosure becomes damaged, unplug the power supply cord immediately. A short-circuit may occur, which could cause a fire. Contact an Authorized Service Center for an evaluation.

- Do not cover the ventilation holes. Doing so may cause the Plasma TV to overheat, which can cause a 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 pedestal or stand surface clear from objects that may obstruct ventilation.

■ When Moving 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.

- To prevent an electric shock, disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.
- Transport only in upright position. Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.
- Using a dry cloth, clean any dust from the power supply cord and plug regularly. Build-up of dust on the power cord plug can increase humidity, which might damage the insulation and cause a fire.

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.

The TV will still consume some power as long as the power supply cord is connected to the wall outlet.

- Display panel is made of glass. Do not apply strong force or impact to the display panel. This may cause damage resulting in injury.
- The TV is heavy. TV should be handled by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.



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.

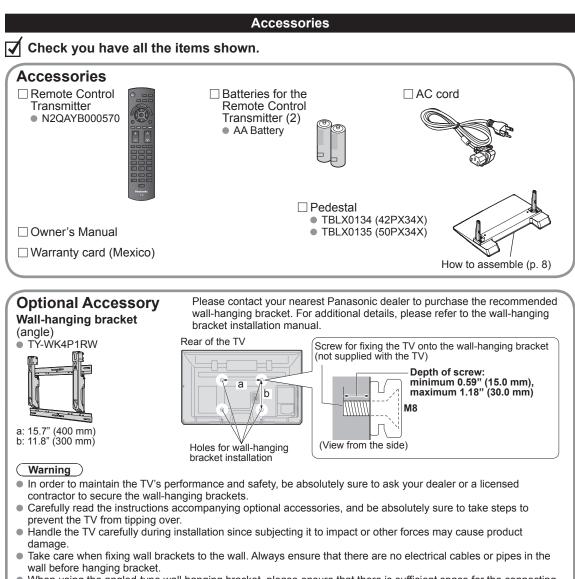
FCC Caution:

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. TC-42PX34X, TC-50PX34X

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

Accessories/Optional Accessory

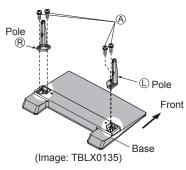


- When using the angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables not to press against the wall when the TV is tilted forward.
- For safety reasons, remove units no longer being used from their wall-mounted locations.

Attaching the pedestal to TV

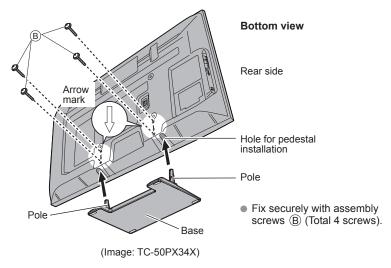
Assembling the pedestal

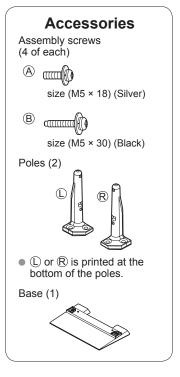
- Fix securely with assembly screws (A) (Total 4 screws).
- Tighten screws firmly.



Set-up

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





Warning

Do not disassemble or modify the pedestal.

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

Caution

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

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

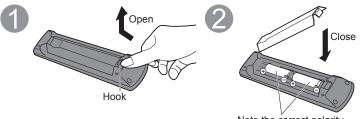
Do not use the pedestal if it becomes warped or physically damaged.

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

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

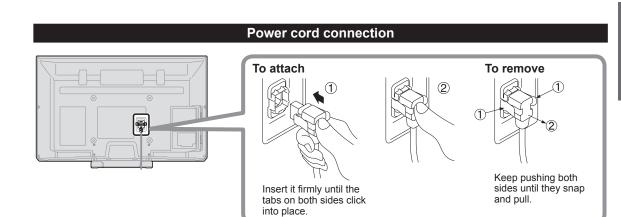
 If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

Installing the remote's batteries

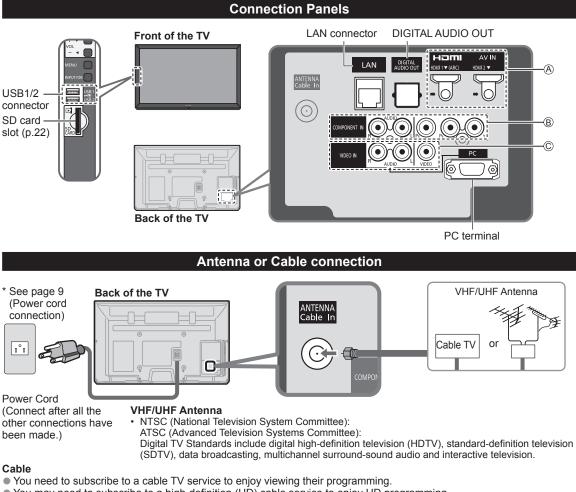


Note the correct polarity (+ or -).

- Caution
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
 - Do not mix old and new batteries.
 - Do not mix different battery types (such as alkaline and manganese batteries). • Do not use rechargeable (Ni-Cd)
 - batteries.
- Do not burn or break batteries.



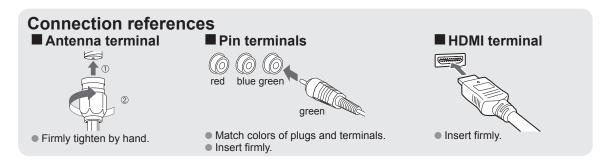
Connections



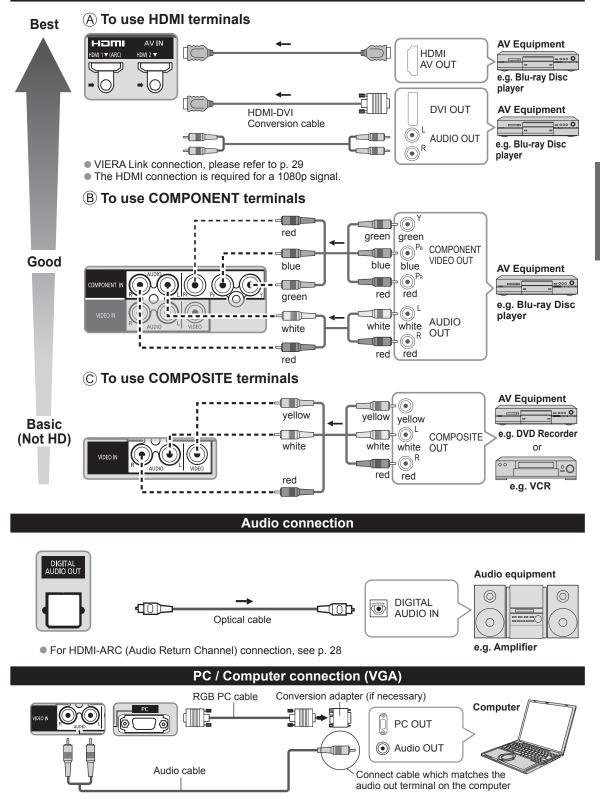
 You may need to subscribe to a high-definition (HD) cable service to enjoy HD programming. The connection for high-definition can be done with the use of an HDMI or Component Video cable. (p. 11)

Note

- When using a Cable box, external equipment and video cables shown in this manual are not supplied with the TV.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- ATSC is not available except in U.S.A., Canada, and/or Mexico.

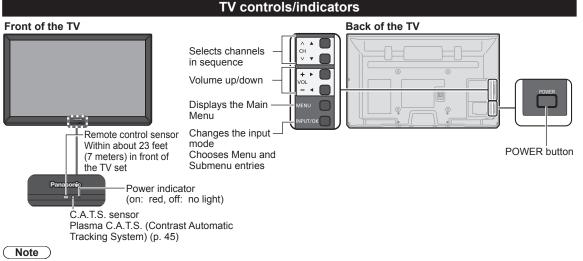


AV cable connection



11

Identifying Controls



- The TV consumes a small amount of electric energy even when turned off.
- Do not place any objects between the TV remote control sensor and remote control.

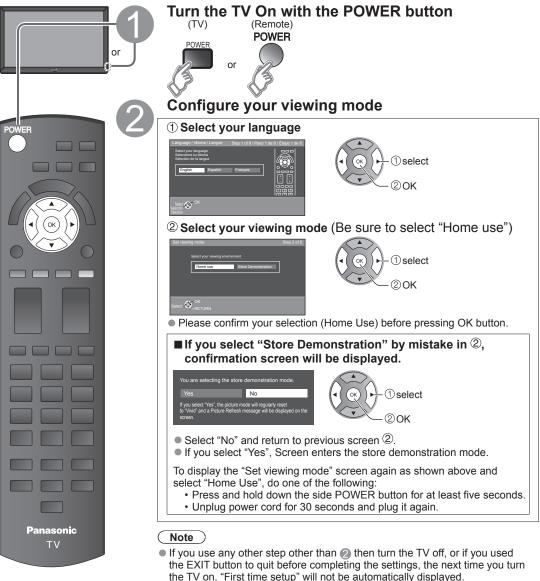
Remote control

	POWER	- Closed Caption On/Off (p. 17)
Switches TV On or Off (Standby)		 Selects Secondary Audio Programming (p. 17)
Select source to watch (p. 21)		Exits from menu screen
	WERA TOOLS	– VIERA Link menu (p. 32-33)
Displays Main Menu (p. 44)		– Display VIERA TOOLS Menu (p. 20)
Displays Sub Menu for special functions	SUB MENU S	 Viewing from SD Card (p. 22-27)
Colored buttons		- Selects/OK/Change
(used for various functions)		 Go back to previous menu
Volume up/down		 Channel up/down, when viewing from ANT/Cable source
Sound mute On/Off		 Displays or removes the channel banner (p. 17)
Changes aspect ratio and zoom(p. 18, 50)	1 0 . 2 ABC 3 DEF 4 GHI 5 JKL 6 MND	 Operates the Favorite channel list function (p. 18)
		 Numeric keypad to select any channel or press to enter alphanumeric input in
Switches to previously viewed channel	LAST * 0 -, - <u>-</u>	menus
External equipment operations(p. 33)		– Use for digital channels. (p. 17)
(p. 00)		
	Panasonic	
	TV	

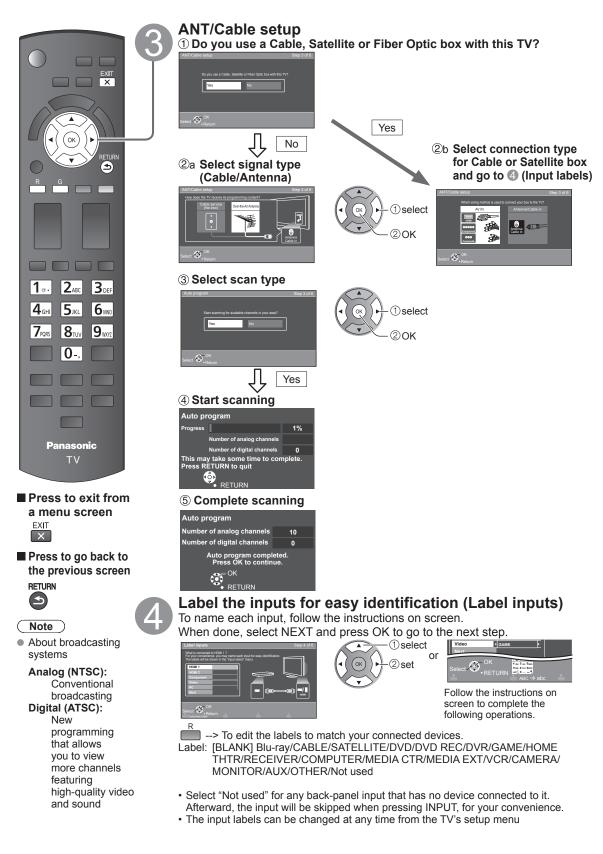
< _ _

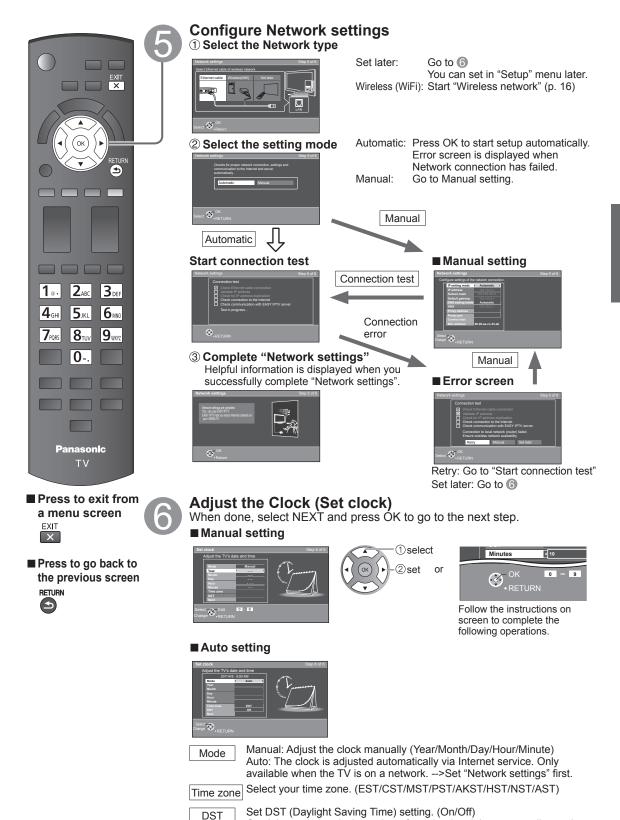
First Time Setup

The first time setup screen 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. 48) is set to "No".



- The settings up to that point are saved.
- You can start "First time setup". (p. 48)
- Language, ANT/Cable setup, Input labels, Clock can also be changed from the Settings Menu. (p. 48)





time zone.

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

Getting started First Time Setup



EXIT

 \mathbf{X}

RETURN

(5)

Press to go back to

the previous screen

Complete First time setup

Congratulations! You are done.

The First time setup can be repeated at any time. Press MENU and select SETUP; then "First time setup".



To watch TV via a Cable box, Satellite receiver, or any other source (DVD, DVR, gaming device, etc.), press the INPUT button and select the appropriate input.

■ About wireless LAN

- Wireless LAN adapter and Access point need to be obtained separately.
 For the latest information on applicable LAN adapters, check the following website: http://Panasonic.com/NetConnect
- Check that the Access point supports WPS*.
 (If it does not support WPS, the encryption key of the Access point is required when configuring settings.)
- Follow the instructions on the Access point setup screen and configure the appropriate security settings.

For more details on setting of Access point, please refer to operating manual for the Access point.

• We recommend using 11n (5 GHz) for the wireless system between the wireless LAN adapter and Access point.

Communication is also possible with 11a, 11b, and 11g (2.4 GHz), but the communication speed may be slower.

- If the wireless system of the Access point is changed, devices that could connect by wireless LAN may no longer be able to connect.
- When EASY IPTV, Network camera, DLNA, or other device is using the network, do not disconnect the wireless LAN adapter.
- Keep the TV away from the following devices as much as possible: Wireless LAN, microwaves, and other devices that use 2.4 GHz and 5 GHz signals. Otherwise, the TV failures such as malfunction may occur due to the radio wave interference.

(1)select

(2)OK

* WPS: Wi-Fi Protected Setup

■ Wireless network (First time setup) in ⑤

- ① Display "Wireless network"
- ② Select the connection method



Follow the directions on screen to complete the setting.
 See page 27 for more information

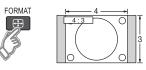
See page 37 for more information.

Watching TV

		Turn power or	า	
POWER CC		(Remote) POWER	(TV)	● Please select correct input> ● (p. 21)
		Select a chan	nel number	
SUB FORMAT IMF FORMAT IMF F		reception between	box connection] box's remote control r "Antenna" in "ANT cable TV and anter	example: CH15-1: 1. 5. F. 1.
Other Use	ful Functions			
	· · · · · · · · · · · · · · · · · · ·	ndary Audio Pro	ogramming)	
1	e Audio mode f	or watching TV		
SAP	Digital mode Press SAP to sel Audio track 1 of (Englis	2	available) when rea	ceiving a digital channel.
		lect the desired Audio r SAP will change the Au		SAP/Mono)
				Satellite box connected via HDMI. on enabling SAP with their box.
Closed C	,			
		ption mode On or (Off	
CC	Closed caption Off	Closed caption On	Closed capti	on On mute
	 Contact your C 	Cable or Satellite opera		a Cable or Satellite box connected via HDMI. on enabling CC with their box.
	ng Information			
	and removes in the channel banr		watching progra	mming via the Antenna/Cable input,
INFO	Channel		Clock	
<i>j</i>	Station SAP identifier indic	P TV-G 1080i Stan Signal Pic ation resolution mo	ture Sleep time de remaining	ur in the second se
	Closed caption	Rating Level	Aspect ratio	

Change aspect ratio and Zoom the picture

■ Press FORMAT to cycle through the aspect modes (p. 50)



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

Use when the picture does not fill the whole screen (bars appears on either side of the image) or portions of the picture is trimmed.

Note

- 1. Some content, such as film-based movies, are available in extra-wide format. Top and bottom bars are unavailable.
- Connected devices, such as Cable/Satellite box, DVD/Blu-ray players and game consoles have their own aspect (format) settings. Adjust the device's aspect settings.

Display the SUB MENU

Press SUB MENU to show the Sub Menu screen

This menu consists of shortcuts to convenient functions. Sub menu is only available when the TV is using the Antenna/Cable input, not when using Cable or Satellite box.

SUB MENU	
S	

Setup S	UB MENU		
Channe	l surf mode	-	—Specify f
1	All	►	down bu
Set favo	orite	-	-Set favor
Edit CH	caption	_	-Edit the
Signal n	neter		-Check th

Specify favorites or type of channels to view when pressing the channel up/ down button. Set favorite channel (below) Edit the channel identifier (p. 43)

delete

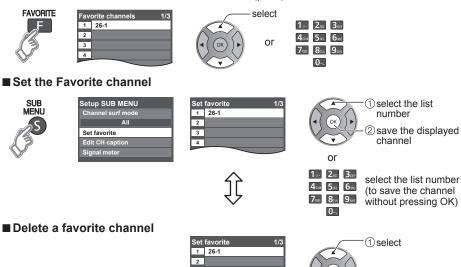
(while holding down)

-Check the signal strength (p. 43)

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 the number buttons. (p. 17)



4

■ To change the page

FAVORITE

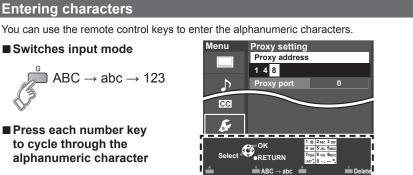
Press repeatedly to change between pages (1/3, 2/3, 3/3 or exit)



Changes the page forward/backward

• Favorite channels cannot be set when using Cable or Satellite box.

Other Useful operations



• You can also use a USB keyboard (not supplied) to enter the alphanumeric characters.

Navigation area

Keyboard type (p. 48)

Password setting/entering

You need to enter the password when you access locked channel or inputs.

Input your 4-digit password



- If it is your first time entering the password, enter the password twice in order to register it.
- Make a note of your password. Do not forget it. (If you have forgotten your password, consult your local dealer.)
- When you select a locked channel, a message will be displayed that allows you to view the channel after you input your password.
- Change password (p. 47)

Operate USB keyboard

You can operate non-character keys as remote control keys.

■ Key chart

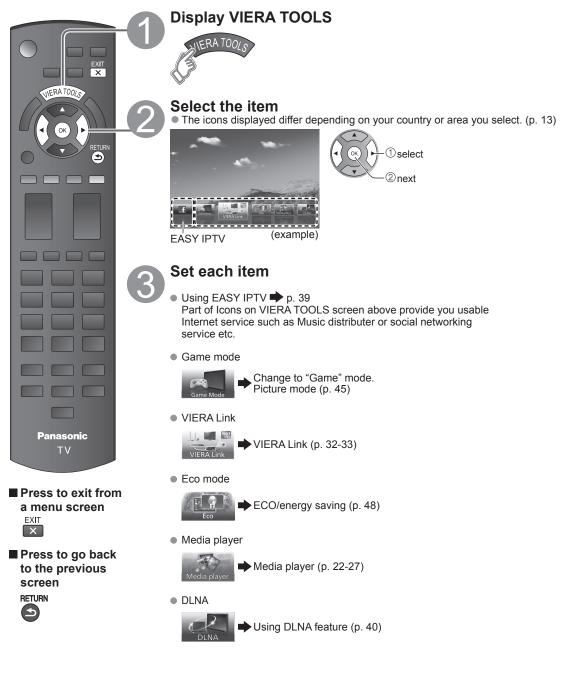
Remote key	Keyboard key	Remote key
Cursor key	F4	Input
OK	F5	Channel Down(-)
Return (when you do not input character)	F6	Channel up(+)
0-9	F7	Volume Down(-)
Menu	F8	Volume up(+)
VIERA Tools	F9(Red)/F10(Green)/	Color key
Submenu	F11(Blue)/F12(Yellow)	(Red/Blue/Yellow/Green)
	Cursor key OK Return (when you do not input character) 0-9 Menu VIERA Tools	Cursor key F4 OK F5 Return (when you do not input character) F6 0-9 F7 Menu F8 VIERA Tools F9(Red)/F10(Green)/

For more details on setting and operation of the USB keyboard, please also read the operating manuals for the USB keyboard.

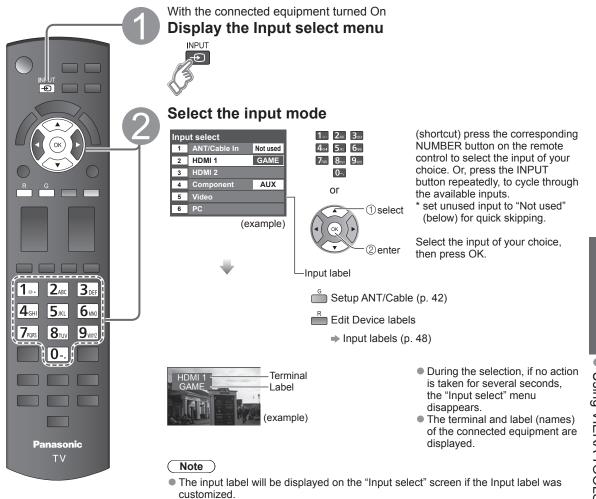
Some keyboards do not have these keys.

Using VIERA TOOLS

VIERA TOOLS is the easy way to access the TV's special features. They are displayed as shortcut icons on the TV screen.



Watching content from external devices



Operate the connected equipment directly or using the remote control supplied with the equipment

Note

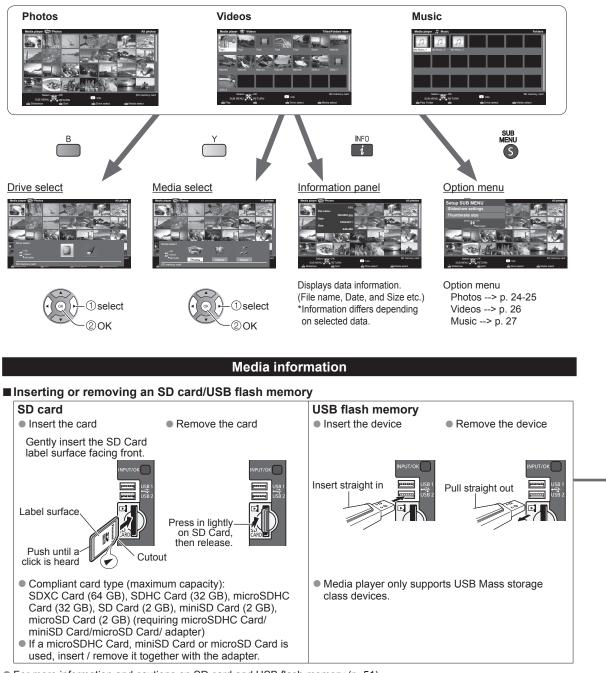
- For details, see the manual for the connected equipment.
- PC adjustments (p. 45)

Using Media player

You can view still and motion images and play music saved on a USB flash memory and an SD card.

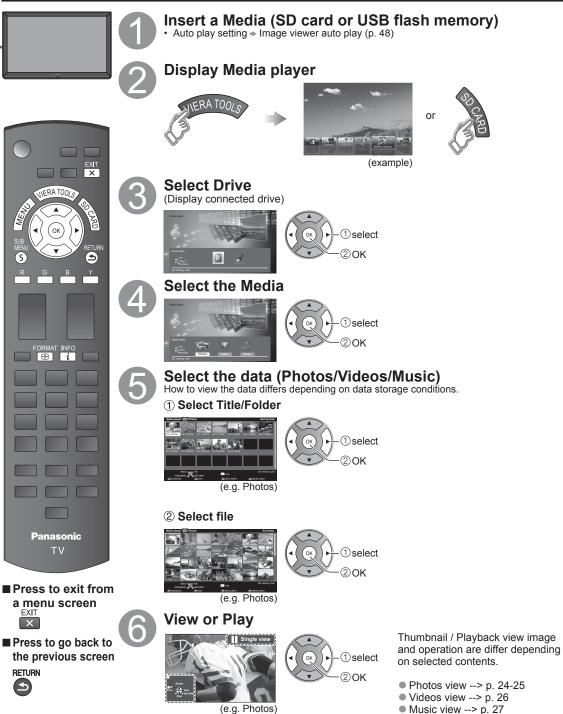
Basic features for Media player

■ Available contents and features



For more information and cautions on SD card and USB flash memory (p. 51)

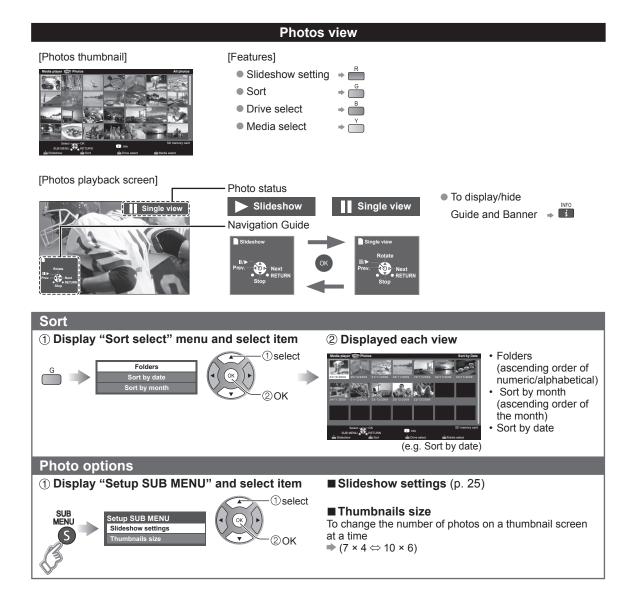
Viewing Contents



Basic

Using Media player

23



Slideshow 1 Display "Slideshow settings" 2 Adjust items and select "Slideshow start" Slideshow settings (1) select Start Slidesho Frame Photo effect Off 20K Transition effect Off Photo size Normal RETURN urst playba To stop in mid-cycle Press G Dis peat playback Rep On (example) Soundtrack settings . . (example)

■ Slideshow settings

Settings	Item Description		
Frame*	Select the Frame (Off/Array/Collage/Drift(with calendar)/Drift/Gallery(with calendar)/Gallery/Cinema)		
Photo effect*	Select the display effect (Off/Sepia/Gray scale)		
Transition effect Select the Transition effect shown between photos (Off /Fade in/Wipe ↓/Wipe ↑/Wipe →/Wipe ← Transition effect Slide in ↓/Slide in ↑/Slide in →/Slide in ←/Zoom in/Comb ↑↓/Comb →←/Dissolve/Checker wipe/Motion/Random) Slide in ↓/Slide in →/Slide in ←/Zoom in/Comb ↑↓/Comb →←/Dissolve/Checker			
Photo size*	Removes the black borders that are added according to the size of the photo being displayed. (Normal/Zoom)		
Burst playback*	Continuously plays photos that were shot continuously. (On/Off)		
Display interval	Set "Display interval" each image is displayed in the Slideshow mode. (Short/Fast/Normal/Slow/Very slow)		
Repeat playback	k Turn the Slideshow Repeat (cycle) function on or off (Off/On).		
Soundtrack settings	Select the music (Off/Music 1/Music 2/Music 3/Music 4/Music 5/User selected*/Auto*) User selected: Plays the soundtrack registered in the "Soundtrack settings". (below) Auto: Plays the songs on the SD card or USB flash memory.		

• Picture quality may become lower depending on the slideshow settings.

• Picture setting may not work depending on the slideshow settings.

* When using DLNA (DMP mode) feature these menus are not displayed. DMP: Digital media player → p. 34

Soundtrack settings

 Select "Soundtrack settings"

Normal

Off

Normal

(example)

Slideshow settings Start Slideshow

Frame

Photo effect

Transition effect

Burst playback

Display interval

Repeat playback

Soundtrack settings

Photo size

② Select "User select"

Soundtrack settings OFF

Music 1

Music 2

Music 3

Music 4

Music 5

Auto

User selected

User selected 📄 03 XXXX 🎵

$\ensuremath{\textcircled{3}}$ Select the song and register

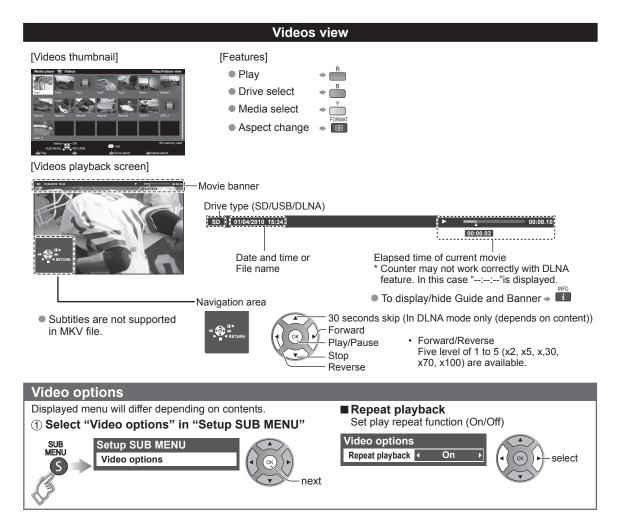


This song: Register current music. All songs in folder : Register the music in a folder.



20K

Basic

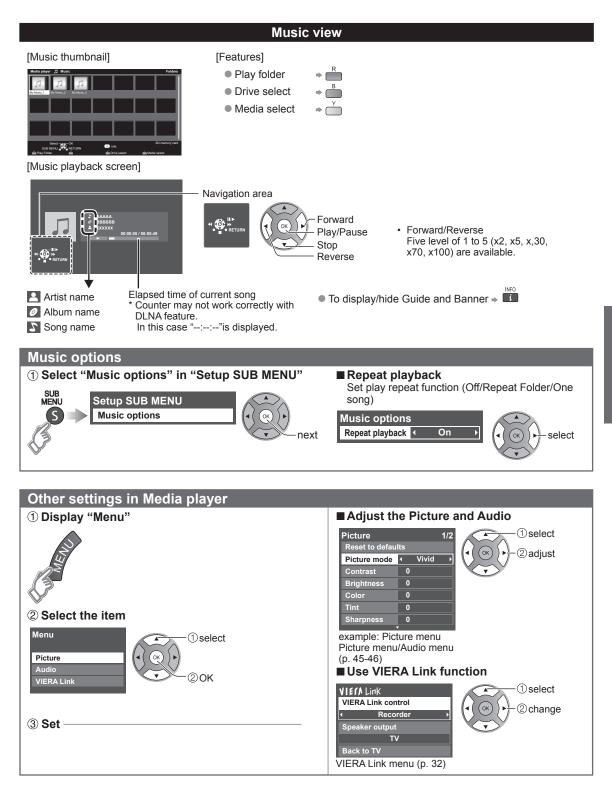


Compatible Data format for Media player (SD card/USB flash memory)/DLNA

Media	Compatible format	
Photo	JPEG files (DCF and EXIF standards) Sub-sampling - 4:4:4, 4:2:2 and 4:2:0 Image resolution - 8 × 8 to 30,712 × 17,272 pixels	
Videos	 SD-Video Files (SD-Video Standard Ver.1.3) Modified data with a PC may not be displayed correctly. AVCHD Standard compatible files Modified data with a PC may not be displayed correctly. 	
Music	MP3 files (MPEG Audio Layer-3) AAC files (MPEG2-AAC / MPEG4-AAC) WMA files (WMA9) LPCM files*	

• For more data format information. (p. 51)

* For DLNA only.



Basic

VIERA Link[™] "HDAVI Control[™]"*

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote. Enjoy additional HDMI Inter-Operability with compatible Panasonic products.

This TV supports "HDAVI Control 5" function.

Connections to equipment (DVD recorder DIGA, HD Camcorder, Home theater system, Amplifier, etc.) with HDMI cables enables VIERA Link controls.

Equipment with the "HDAVI Control" function enables the following operations:

Version	Operations (See p. 30-33, for more information)
HDAVI Control or later	 Automatic Input Switching Power on link Power off link Default speakers Speaker control
HDAVI Control 2 or later	 VIERA Link control only with the TV's remote control Unselected device energy save (for available equipment only)
HDAVI Control 3 or later	 Provides setting information (Language, time. etc.) Automatic lip-sync function
HDAVI Control 4 or later	Energy saving mode (with Quick Start mode)
HDAVI Control 5	 Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable back from the TV to a connected audio device.

■ When adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1 or HDMI2 (p. 21), and make sure that the image is displayed correctly.

VIERA Link "HDAVI Control", is based on the control functions provided by HDMI and industry standard known as HDMI CEC (Consumer Electronics Control), with 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.

■ HDMI cable

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.

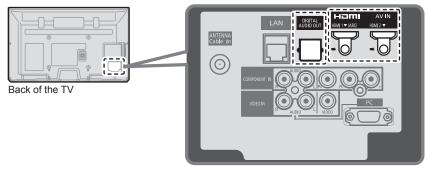
It is recommended that you use Panasonic's HDMI cable. Recommended part number:

RP-CDHS15 (4.9 ft/1.5 m), RP-CDHS30 (9.8 ft/3.0 m), RP-CDHS50 (16.4 ft/5.0 m)

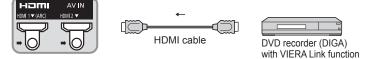
* For more details on the external equipment's connections, please refer to the operating manual for the equipment.

VIERA Link[™] Connections (with VIERA Link function)

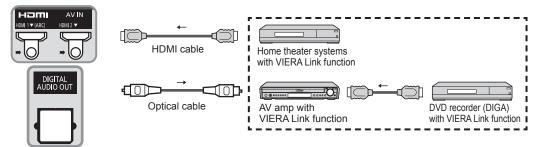
Terminal overview



Connecting DVD Recorder (DIGA)



Connecting Home theater system/AV amp HDMI 1 is recommended.



No optical cable is necessary when connecting a Home Theater supporting "HDAVI control 5" with an HDMI cable. Audio will be supported via ARC (Audio Return Channel) (p. 28)

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

Connecting HD Camcorder/Digital camera

Press INPUT and select an available HDMI terminal, then connect the camcorder to this input. After connection, confirm the HDAVI control functions. (p. 30-33)







HD Camcorder LUMIX with VIERA Link with VIERA Link function function

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 connected equipment playback operates.

Note

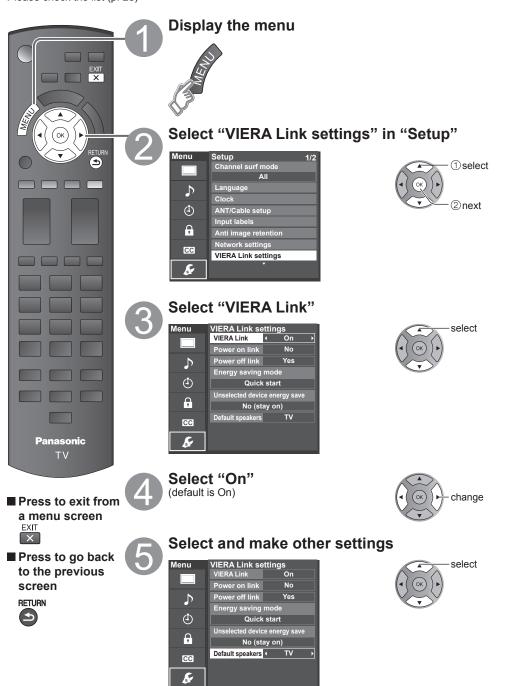
- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective manuals.
- When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.

(When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)

Some devices use Mini-HDMI terminal. HDMI (type A) to Mini-HDMI (type C) cable or adapter should be used.

VIERA Link settings and Available features

To use all VIERA Link functions: After everything is connected, in VIERA Link settings menu, set "VIERA Link" to "On". Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 28)



Advancec

Automatic Input Switching

When using a Blu-ray Disc player, DVD player/recorder or Home theater system, the TV will automatically change to the appropriate input, when playback begins on one of those devices.

• For a Home theater system the speakers automatically switch to the theater system.

Power on link

Yes: The TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and the Play mode is selected.

Power off link

When "Yes" is selected and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

- A Panasonic DVD Recorder will not turn off if it is still in Rec mode.
- The TV remains on even if the VIERA Link compatible equipment is turned off.

Energy saving mode

Quick Start: When TV is turned off, all connected VIERA Link compatible equipment is moved to ECO Standby mode* automatically under these conditions.

- Power off link: (Yes), The connected equipment has "HDAVI Control 4 or later (with Quick Start mode)"
- * Minimum power consumption of Standby condition for the equipment.

Unselected device energy save

Yes: The connected VIERA Link compatible equipment will be turned off automatically when not in use under these conditions.

- The connected equipment has "HDAVI Control 2 or later" (for available equipment only)
- [Example of timing for operation]
- When the input is switched from the HDMI.

Default speakers

"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.

Automatic lip-sync function

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

TV provided setting information

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

Transmittable data	Recorder	Home theater	Player	
 On Screen Display Language setting (English/Español/Français) 	0	0	0	
② Panel Aspect Ratio (16:9 fixed)	0	0	0	
 ③ Closed caption information (Mode/CC type/Digital setting) 	0			

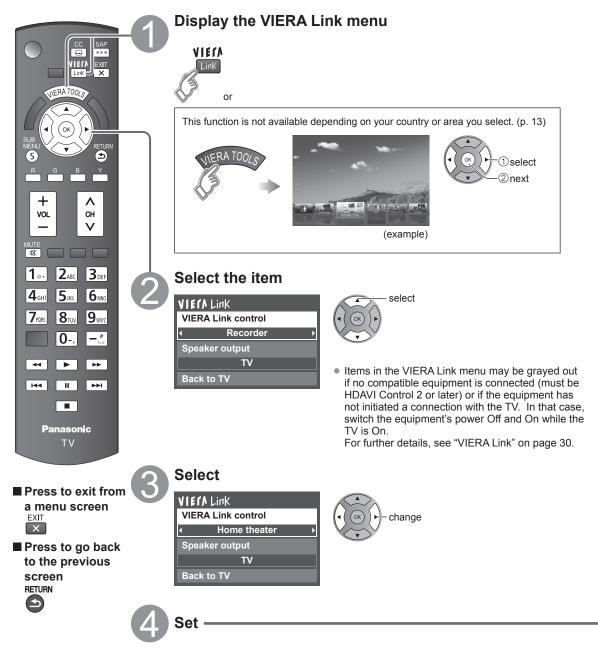
Note

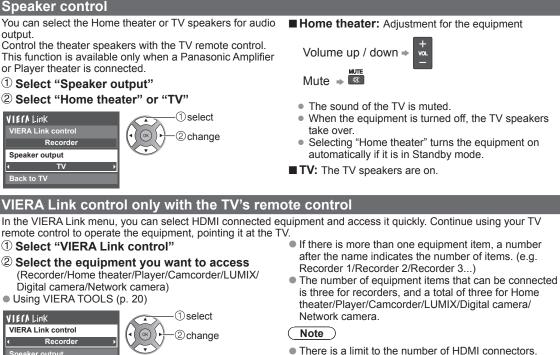
• There is a possibility that all the GUI language information might be set from equipment that has an HDMI CEC function connected to the TV with an HDMI cable. Depending on the operating conditions or the specification for each piece of equipment the setting may or may not be applied.

• For more details on the external equipment's operation, please refer to the operating manual for the equipment.

VIERA Link menu and Available features

Some features are disabled depending on the "HDAVI Control" version of the equipment. Please check the list (p. 28)





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

Available TV remote control buttons

Whether an operation is available differs depending on the connected equipment.

	Move the cursor/Select		Play
	Set/Access		Stop
RETURN	Return to previous menu	4 >	Reverse/Forward
SUB MENU	Display the functions menu on the equipment		Skip Reverse/Forward
r • • · ·	Available when the purpose of the keys is displayed on screen		Pause
EXIT	Exit	CC E	Closed caption
 8 8 	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 - 9	0-9		Select digital subchannel

Back to TV

Returns the input selection of the device selected with the VIERA Link Control to the TV input.

Select "Back to TV"

VIECA Link VIERA Link control Recorder Speaker output τv



• When the equipment is turned off, the TV speakers

remote control to operate the equipment, pointing it at the TV.

1 Select "VIERA Link control"

- 2 Select the equipment you want to access
- Using VIERA TOOLS (p. 20)



You can select available items only.

VIERA Link[™] "HDAVI Control[™]

(1) select

Using Network services

Available Network service and features

■Using EASY IPTV ⇒ p. 39

■ Using DLNA feature (Home network) → p. 40

This TV is a DLNA Certified [™] product.

DLNA (Digital Living Network Alliance) is a standard that makes DLNA Certified digital electronics easier and more convenient to use on a home network. To learn more, visit www.dlna.org.

It allows you to share photos, videos and music stored in the DMS (for example, PC with windows 7 installed, etc.) connected to your home network, and enjoy watching them on the TV screen as DMP.

DMS (Digital Media Server)

Ensure the connected equipment has a DLNA Certified media server.

Store photos, videos or music into the media server, and then you can watch them on the TV.

"Windows 7" is the server software that has been tested for the performance with this TV (current as of January, 2011). For installing, read the manual of the server software.

• The DLNA control function of Windows 7 is not supported with this TV.

When a server software for the media server is installed on the PC, the data may be at risk of being accessed by other people. Please take care of the settings and connections under the network circumstances at the office, hotel or even at home when not using a router.

DMP (Digital Media Player)

Finds the content on DMS and provides playback.

■ Using Network camera ⇒ p. 41



Contact your Broadband service provider

NOTICE: If you don't have Internet service by your local provider, please order a high-speed Internet service at no less than the following connection speed. If you already have such service, make sure that the connection speed exceeds the following.

- Required speed (effective): at least 1.5 Mbps for SD and 6 Mbps for HD picture quality, respectively.
- Dial-up Internet service cannot be used for EASY IPTV.



Select wired or wireless connection

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

Connecting to the Internet

A Wired connection (Directly connected)

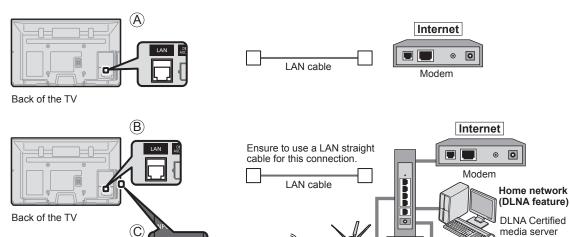
If you are not using the network for connecting anything else but the TV, you could just connect the TV directly to the Cable/DSL Ethernet connection.

B Wired connection (Using Router)

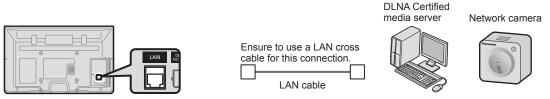
If you are using the network for connecting various equipments and want to connect the TV, you should use a router to connect the TV to the Internet

© Wireless connection

If you are using the network for connecting various equipments and want to connect the TV, you could also use a wireless LAN adapter and Access point to connect the TV to the Internet



To use only DLNA features or Network camera, you can operate the features without Broadband network environment.



(for example, PC,

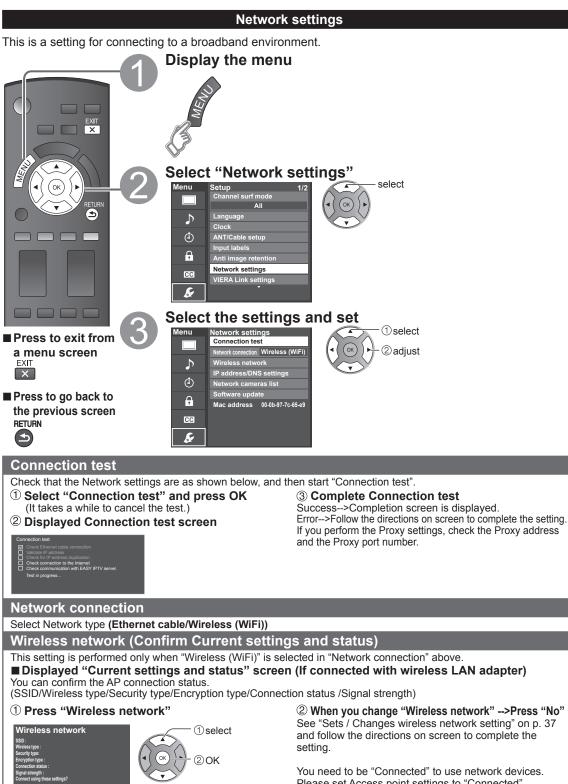
etc.)

Network camera

Hub. Router

or Access point

Back of the TV



2 When you change "Wireless network" -->Press "No" See "Sets / Changes wireless network setting" on p. 37 and follow the directions on screen to complete the

You need to be "Connected" to use network devices. Please set Access point settings to "Connected".

No

(example)

Yes

Wireless network (Wireless network setting)

Sets / Changes wireless network setting

① Press "Wireless network" and display setting screen

2 Follow the directions on screen to complete the setting

Wireless network

Please choose connection method: Search for wireless networks WPS (WI-Fi Protected Setup using push button) WPS (WI-Fi Protected Setup using PIN number) Manual settings



* Wi-Fi Protected Setup is an easy setting of the Wi-Fi Alliance's certification

• For more details on setting of an Access point, please refer to operating manual for the Access point.

Search for Wireless networks:

Select an Access point from the ones searched for automatically, and configure the settings as instructed on the screen.

WPS (Wi-Fi Protected Setup* using push button):

You can connect the Access point to press the buttons.

WPS (Wi-Fi Protected Setup using PIN number): Set the PIN code that is displayed on the TV on the Access point.

Manual settings:

Manually set SSID, Security type, and Encryption type to match the settings of the Access point to which to connect.

• When connecting by 11n (5 GHz), select "AES" as the Encryption type for the wireless LAN.

IP address/DNS settings

① Select "IP/DNS setting mode" and set to "Automatic"

(When IP/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 "IP/DNS 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.

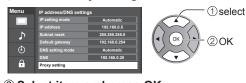
Or Enter each IP address as was specified by the provider



Proxy setting

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

① Select "Proxy setting"



2 Select item and press OK



③ Enter address or port number and press OK

Entering characters (p. 19)

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.

Proxy port

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

Network cameras list

Before using a Network camera, you need to register the camera as shown below. You can also set to Default camera or Disconnect/Delete the registered cameras.

R

Ğ

select

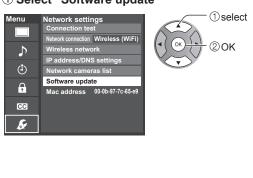
- Press "Network cameras list" and display screen
- **2 Set Network camera setting**



 For this operation, please refer to the operating manual for the Network camera.

Software update

① Select "Software update"



Start camera search.

- Before you start to search for a camera, switch the camera to registration mode.
- Search condition also depends on "Network settings"
- Delete camera information.
- Disconnect to camera. "Disconnected" will be displayed in "Status".
- Set to default use. Displayed "(Default)" next to camera name.

(Available only when reconnecting)

Connect to Camera. "Connect" will be displayed in "Status".

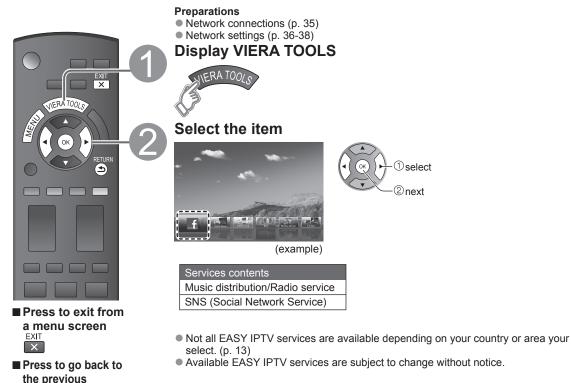
Press OK to start the Software update screen Follow directions on the screen

Set "Clock" first. (p. 15)

Using EASY IPTV

This function allows you to access Internet services, such as music distribution or social networking service etc, easily with selecting the VIERA TOOLS icon.

• You need broadband environment to use this service.



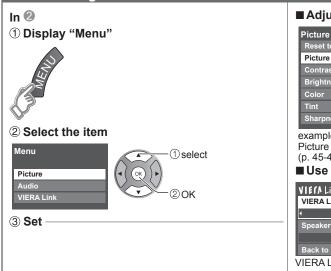
■ Using USB keyboard

- USB connections (p. 51)
- Keyboard type (p. 48)
- Operate USB keyboard/Entering characters (p. 19)

Other settings

RETURN

 (\mathbf{S})



■ Adjust the Picture and Audio

1/2



(1) select

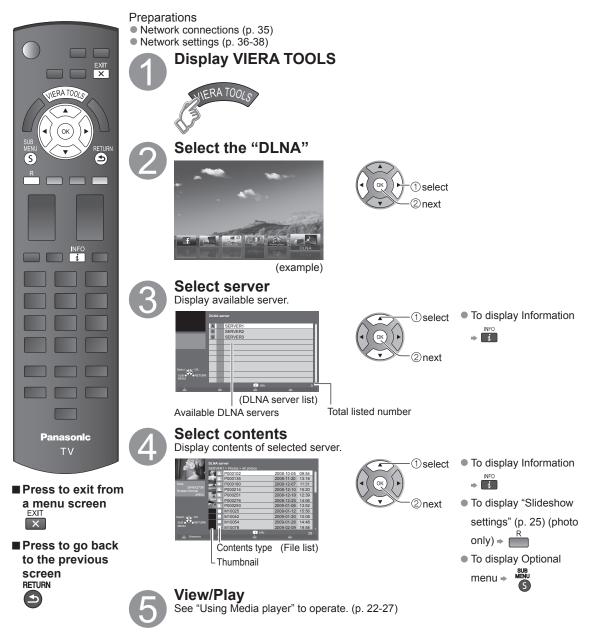
2 adiust

(1) select

2 change

Using DLNA feature

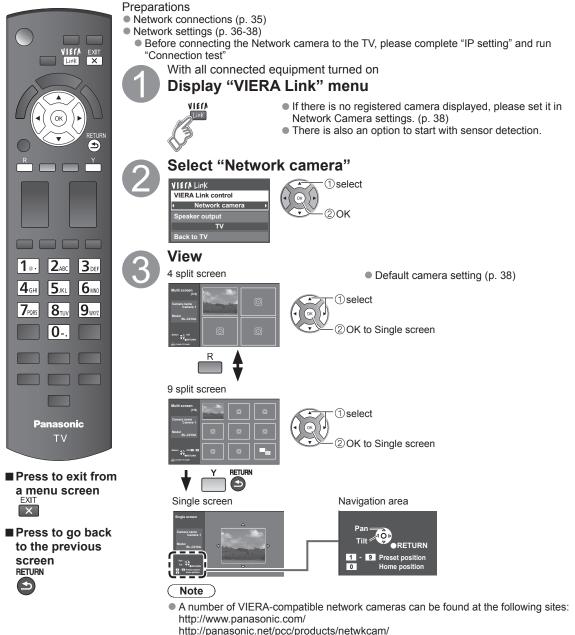
You can share the contents (Photo, Video, Music etc.) stored in DLNA Certified media server with your home network system.



Network Camera

You can operate the Network camera from the TV remote and also check the images from the Network camera on your TV.

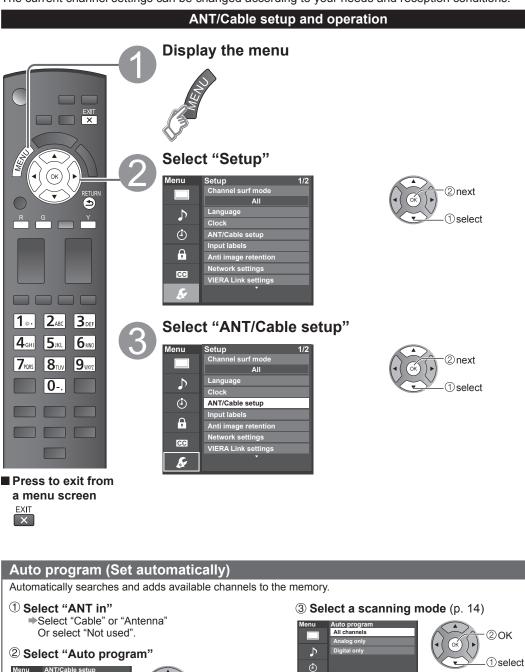
• VIERA Link control only with the TV's remote control (p. 33)



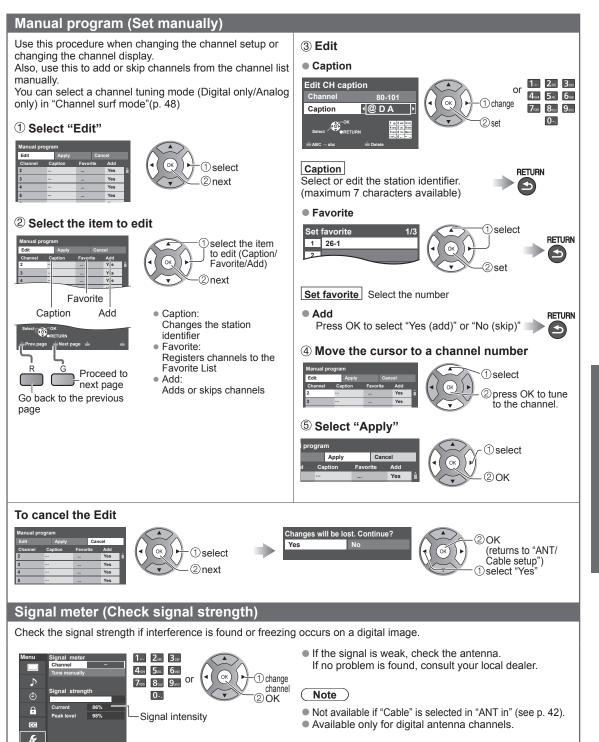
 For more details on setting and operation of the Network camera, please also read the operating manuals for the Network camera.

Editing and Setting Channels

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

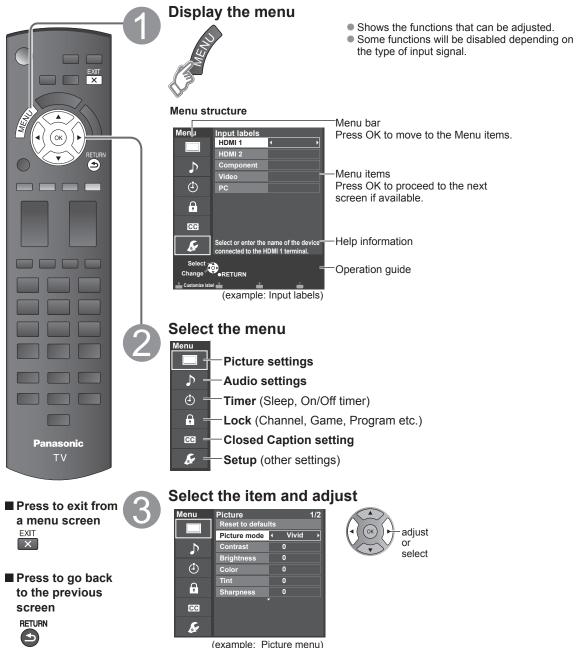


- Annu ANT/Cable setup ANT in Cable Auto program Manual program Signal metor Cable Manual program Signal metor Cable Manual program Signal metor
- After the scanning is completed, select "Apply". (see p. 43 (5)).
- All previously saved channels are erased.



How to Use Menu Functions

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



Picture se	ettings Ac	ljust the image c	or picture quality	
Settings	Items	Item Description		
Reset to defaults		Resets all picture ad picture".	ljustments to factory default settings except for "Advanced	
Picture mode	Vivid	Provides enhanced room.	picture contrast and sharpness for viewing in a well-lit	
	Standard	Recommended for n	normal viewing conditions with subdued room lighting.	
	Cinema	For watching movies	s in a darkened room. It provides a soft, film-like picture.	
	Game	Photo is displayed in JPEG menu.		
	Custom (Photo)			
Contrast, Brightness, Color, Tint, Sharpness		Adjusts the color, brightness, etc. for each picture mode to suit your taste • Display range Contrast/Brightness/Color/Sharpness : 0 - 100 Tint : -50 - +50		
Color temp.	Cool 2/1/Normal/ Warm 1/2	Selects a choice of Cool (blue), Normal, or Warm (red) color.		
Color mgmt.	Off/On	On: Enhances gree	n and blue color reproduction, especially outdoor scenes.	
C.A.T.S.	Off/On	Automatically adjust condition.	s the screen brightness according to the ambient lighting	
Video NR	Off/Weak/ Medium/Strong	Reduces noise, com	monly called snow. Leave it off when receiving a strong signal.	
	grayed out depending ments" will be grayed			
Aspect adjustments	Screen format	FULL/H-FILL/ JUST/4:3/ZOOM	Changes the format (aspect ratio). Lets you choose the aspect depending on the format of received signal. (p. 50)	
	H size	Size 1/Size 2 Adjusts the horizontal display range to reduce noise of both side edges of an image. Size 2: Adjusts the image size according to the aspect mode to reduce noise. (p. 50)		
	Zoom adjustments	Adjusts vertical aligr	ment and size when aspect setting is "ZOOM".	
PC adjustments	Reset to defaults	Resets PC adjustme	ents.	
-	Sync	H & V	The H and V sync signals are input from the HD/VD connector. (p. 53)	
	-	On green	Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 53)	
	Dot clock	Alleviates the proble is blurred.	m if a picture appears to be vertically-striped, flickers partially or	
	H-position	Adjusts the horizont	al position.	
	V-position	Adjusts the vertical position.		
	Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the clock Pha so that a clear picture appears. It may not be possible to display a clear picture due to poor input signals. 		
	Input resolution	Switches to wide display. • VGA (640×480 pixels), WVGA (852×480 pixels), XGA (1,024×768 pixels), WXGA (1,280×768 pixels) • Options change depending on signals		
	H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal:15 - 110 kHz Vertical: 48 - 120 Hz		

Settings	Items	Item Description	
HDMI settings	HDMI/DVI RGB range (HDMI 1-2)	Auto/ Standard (16-235)/ Nonstandard	Prevents the blown out highlights and blocked up shadows when a wide-range signal is received. Selects between standard RGB range (16-235 bits) or non-compliance (0-255 bits). Auto: Switches the RGB range (Standard (16-235)/ Nonstandard) depending on the HDMI signal information.
	Contents type (HDMI 1-2)	Off/Auto/Photo/ Graphics	Sets content type to each HDMI input. Auto: Switches content type automatically depending on the HDMI signal information. Photo: Best setting for JPEG viewing. Graphics: Best setting for On-Screen display of connected equipment.
	grayed out depending		
	i will be grayed out it	the input signal is hig	h definition or you are viewing photos, etc.)
Advanced	3D Y/C filter	the input signal is hig Off/On	h definition or you are viewing photos, etc.) Minimizes noise and cross-color in the picture.
Advanced	3D Y/C filter	Off/On	Minimizes noise and cross-color in the picture. Selects image resolution of component-connected devices. SD: Standard Definition HD: High Definition
Advanced	3D Y/C filter Color matrix	Off/On SD/HD	Minimizes noise and cross-color in the picture.Selects image resolution of component-connected devices.SD: Standard DefinitionHD: High DefinitionOnly used with 480p video signal.
Advanced	3D Y/C filter Color matrix Block NR	Off/On SD/HD Off/On	Minimizes noise and cross-color in the picture. Selects image resolution of component-connected devices. SD: Standard Definition HD: High Definition Only used with 480p video signal. Reduces noise of specific digital signals of DVD, Cable box, etc. Reduces HDTV flicker noise in the contoured sections of an
Advanced	3D Y/C filter Color matrix Block NR Mosquito NR	Off/On SD/HD Off/On Off/On	Minimizes noise and cross-color in the picture. Selects image resolution of component-connected devices. SD: Standard Definition HD: High Definition Only used with 480p video signal. Reduces noise of specific digital signals of DVD, Cable box, etc. Reduces HDTV flicker noise in the contoured sections of an image

♪ Audio settings Adjust Audio quality

Settings	Items	Item Description		
Reset to defaults		Resets Bass, Treble, and Balance adjustments to factory default settings.		
Bass		Increases or decreases the bass response.		
Treble		Increases or decreases the treble response.		
Balance		Emphasizes the left / right speaker volume.		
Advanced audio	A.I. sound	Off/On	Equalizes overall volume levels across all channels and external inputs.	
	Surround	Off/On Enhances audio L/R response when listening to stereo.		
	Bass boost	Off/On	Enhances bass sound and provides powerful sound.	
	Volume leveler		Minimizes volume disparity after switching to external inputs.	
	TV speakers	Off/On	Switches to "Off" when using external speakers. Off: "A.I. sound", "Surround", "Bass boost" and "Volume leveler" do not work if "Off" is selected.	
	HDMI 1-2 in	Digital/ Component/ Video	The default setting is "Digital" for the HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal)	

① Timer settings The TV can automatically turn On/Off at the designated date and time.

If the Timer settings are grayed out, first set the clock (see p. 48) and make sure "Auto power on" is set to "No" (see p. 48)

Settings	Items	Item Description		
Sleep (Off timer)	Sleep (minutes)	Off/15/30/60/90	Select how long for the TV to automatically turn off.	
Timer 1-5 Timer set Enables or disables this timer. (Off/On)		this timer. (Off/On)		
(On/Off timer)	Inputs	Sets the input to select when the TV turns on.		
	Channel	Sets the channel to select when the TV turns on.		
	Day Sets the day when the TV turns on. [SUN/MON/TUE/WED/THU/FRI/SAT(displays the MON-FRI/SAT-SUN/DAILY/Every SUN/Every MOI WED/Every THU/Every FRI/ Every SAT]		ED/THU/FRI/SAT(displays the nearest future date) //DAILY/Every SUN/Every MON/Every TUE/Every	
On time Sets the time when the TV turns on. The TV will turn specified.		the TV turns on. The TV will turn off after 90 minutes or as		
	Off time	Sets the time when the TV turns off within 24 hours.		

Lock Locks specified channels or shows to prevent children from watching objectionable content.

You will be asked to enter your password each time you display the Lock menu. • Password setting/entering (p. 19)

Set "Custom" in "Mode" to specify "Channel", "Game", "Program" and "EASY IPTV" settings.

Settings	Items	Item Description				
Mode	Off	Unlocks all the Lock settings of "Channel", "Game", "Program" and "	Unlocks all the Lock settings of "Channel", "Game", "Program" and "EASY IPTV".			
	All	Locks all the inputs regardless of the Lock settings of "Channel", "Game", "Program" and "EASY IPTV".				
	Custom	Locks specified inputs of "Channel", "Game", "Program" and "EASY IPTV".				
Channel (These channels will be blocked regardless of the	Mode	Set channel lock status. (Off/All/Custom) All: Locks all channels Off: Unlocks all channels Custom: Locks specified channels. Set "Channel 1" - "Channel 7"				
program rating.)	Channel 1-7	Select a channel to lock. (Select up to 7 (1-7) channels to block.)				
Game	On/Off	Locks Channel 3, Channel 4, and external inputs.				
Program (To set a rating	Mode	Set program lock status. (Off/On) "V-chip" technology enables restricted shows to lock according to TV ratings. On: Set each rating level (MPAA, US.TV, C.E.L.R., C.F.L.R.)				
level)	MPAA	Select U.S. movie ratings to lock.				
	U.S.TV	U.S. TV program ratings.	 For more information 			
	C.E.L.R.	Canadian English ratings.	(p. 49)			
	C.F.L.R.	Canadian French ratings.	_ (1)			
(EASY IPTV)*	On/Off	 On: Locks EASY IPTV. When you select EASY IPTV icon on VIERA TOOLS screen, the EASY IPTV Lock screen is displayed. Type the correct password to enter the screen. * The menus displayed differ depending on your county or area you select (p. 13) 				
Change password		Change the password. Input the new 4-digit password twice.				

• 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.

Consed caption Display closed caption

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed caption (CC) information. (p. 52)

Settings	Items	Item Description	
Reset to defaults		Resets all Closed caption settings to factory default settings.	
Mode	On/Off/ CC on mute	On: To display Closed captions. CC on mute: To display Closed captions when the audio is muted. (When not using, select "Off").	
Analog	CC1-4/T1-4	Choose the Closed caption service of Analog broadcasting. CC1-4: Information related to pictures (Appears at the bottom of the screen) T1-4: Textual information (Appears over the entire screen)	
Digital	Primary/Second./ Service 3/4/5/6	The Digital Closed caption menu lets you configure the way you choose to view the digital captioning.	
Digital setting	Size	Text size	
(Set display	Font	Text font	
settings in digital program)	Style	Text style (Raised, Depressed, etc.)	
in digital program)	Foreground	Color of text	
	Fore. opacity	Opacity of text	
	Background	Color of text box	
	Back. opacity	Opacity of text box	
	Outline	Outline color of text (Identify the setting options on the screen)	

• The settings in "Analog" or "Digital" depend on the broadcaster.

	Other function s	eungs		
Settings	Items	Item Description		
Channel surf mode	All/Favorite/ Digital only/ Analog only	Sets the mode to select the channel with the Channel up/down button. Favorite: Only channels registered as FAVORITE. (p. 18)		
Language	English/Español/ Français	Selects the screen menu language.		
Clock		Adjusts the clock. (p. 15)		
ANT/Cable setup	See p. 42-43 for me	bre detail.		
Input labels (Display labels of connected devices)	Devices connected input selection. (Inp	rminal and label of the external equipment. ected to external input terminals can be labeled for easier identification du n. (Input select (p. 21)) HDMI 1-2/Component/Video/PC		
,	Label: [BLANK] E RECEIVE OTHER/N	Blu-ray/CABLE/SATE R/COMPUTER/MEDI ot used	LLITE/DVD/DVD REC/DVR/GAME/HOME THTR/ A CTR/MEDIA EXT/VCR/CAMERA/MONITOR/AUX/	
			ectly. (Entering characters (p. 19))	
Anti Image retention	Pixel orbiter (Wobbling)	Enable/Disable	Enable: Shifts the display image automatically.	
(Prevent Image retention)	4:3 side bars (4:3 mode only)	Off/Dark/Mid/ Bright	Changes the brightness of the side bar The recommended setting is "Bright" to prevent the panel "Image retention". (p. 53)	
	Scrolling bar	 Press any key exce screen. 	e horizontal "Scrolling" on the screen. pt the POWER key to return to previous e previous screen if no key operation has 15 minutes.	
Network settings	See p. 36-38 for m	ore detail.		
VIERA Link settings	See p. 30-31 for me	ore detail.		
ECO/energy saving	No signal for 10 minutes (Stay on/ Power TV off)	 OPERATION continu Not in use when "A "No signal for 10 m when the TV is turn signal for 10 minute 	lay will flash 3, 2 and 1 to indicate the last three (3) remaining	
	No activity for 3 hours (Stay on/ Power TV off)	 To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. Not in use when "Auto power on" is set to "Yes", or "On/Off Timer" is set, or while "PC input" is selected. "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No activity for 3 hours". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 		
		the TV is turned on for 3 hours".The on-screen disp	urs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining	
Keyboard type		 the TV is turned on for 3 hours". The on-screen disp minutes prior to the Select keyboard type 	urs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining shut-off. . Operate USB keyboard (p. 19) ench/Canadian Multilingual Standard/Spanish (Latin	
Keyboard type Advanced setup		the TV is turned on for 3 hours". • The on-screen disp minutes prior to the Select keyboard type (U.S./Canadian Fre America)/Spanish Turns TV On automa	urs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining shut-off. . Operate USB keyboard (p. 19) mch/Canadian Multilingual Standard/Spanish (Latin (Spain)) tically when the cable box or connected device is turned On.	
	Auto power on	the TV is furned on for 3 hours". • The on-screen disp minutes prior to the Select keyboard type (U.S./Canadian Fre America)/Spanish Turns TV On automa TV AC cord must be p	 burs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining shut-off. b. Operate USB keyboard (p. 19) b. Operate USB keyboard (p. 19) b. Operate Multilingual Standard/Spanish (Latin (Spain)) 	
	Auto power on (No/Yes) Image viewer	the TV is furned on for 3 hours". • The on-screen disp minutes prior to the Select keyboard type (U.S./Canadian Fre America)/Spanish Turns TV On automa TV AC cord must be p Slideshow/Photos/ Videos/Music/ Set later/Off	urs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining shut-off. Operate USB keyboard (p. 19) mch/Canadian Multilingual Standard/Spanish (Latin (Spain)) tically when the cable box or connected device is turned On. lugged into this device. TV turns on every time the power is restored Sets the media contents or playback type to play back SD cards automatically. Set later: "Image viewer settings" menu will be displayed repeatedly	
Advanced setup	Auto power on (No/Yes) Image viewer	the TV is furned on for 3 hours". • The on-screen disp minutes prior to the Select keyboard type (U.S./Canadian Fre America)/Spanish Turns TV On automa TV AC cord must be p Slideshow/Photos/ Videos/Music/ Set later/Off	urs was activated" will be displayed for about 10 seconds when for the first time after the power was turned off by "No activity lay will flash 3, 2 and 1 to indicate the last three (3) remaining shut-off. . Operate USB keyboard (p. 19) mch/Canadian Multilingual Standard/Spanish (Latin (Spain)) tically when the cable box or connected device is turned On. lugged into this device. TV turns on every time the power is restored Sets the media contents or playback type to play back SD cards automatically. Set later: "Image viewer settings" menu will be displayed repeatedly "Using Media player" (p. 22) e setup from "Language" setting. (p. 13)	

Ratings List for parental control

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

■ U.S. MOVIE RATINGS (MPAA)

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

■ U.S. TV PROGRAMS RATINGS (U.S. TV)

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

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

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

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

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

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

Caution

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

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

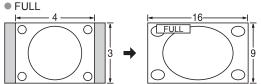
Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

Technical Information

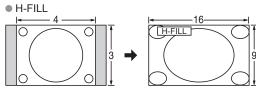
Aspect Ratio (FORMAT)

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. 18)

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

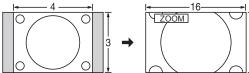


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)



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

ZOOM



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

Zoom adjustments

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

- ① Select "Zoom adjustments" on the "Picture" menu. (p. 45)
- 2 V-position: Vertical position adjustment

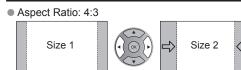




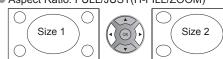


To reset the aspect ratio ⇒ ()⊙() (OK)

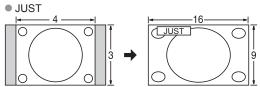




- The width will be decreased on both sides to reduce noise.
- Aspect Ratio: FULL/JUST(H-FILL/ZOOM)

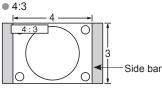


• The width will be increased on both sides to reduce noise.



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

(Recommended for normal TV broadcast)





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

Note

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

③ V-size: Vertical size adjustment

50

Data format information

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

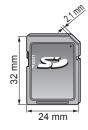
WMV9: Windows Media Video version 9 WMA9: Windows Media Audio version 9

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.
- The function (VIERA Image Viewer/Media player) 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 data in the card and USB flash memory will be read in Photo viewer 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.jp/support/global/cs (This site is in English only)

Cautions when handling SD Cards

- Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.
- 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 or unit may be damaged).
- Electrical interference, static electricity or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic
 operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)



SD Card/USB flash memory warning messages						
Message		Meaning				
No media. Please insert an SD memory card or USB storage device.		• The device is not inserted.				
No media. Device removed.		• The device is removed.				
No photos/ No movies/No music files to play/ No playable media		• The device has no data or this type of data is not supported.				
Cannot read file		 The file is broken or unreadable. The TV does not support the format. 				

Recommended USB device connections

			A/B: each	n USB terminal
Number of USB device	Connections (Recommended)	Memory	Wireless LAN adapter	Keyboard
	A: Flash memory	A		
1	A: Wireless LAN adapter		A	
	A: Keyboard			A
	A: Flash memory B: Keyboard	A		B
2	A: Wireless LAN adapter B:Keyboard		A	B
	A: Flash memory B:Wireless LAN adapter	A	B	

Support Information

VIERA Link[™] "HDAVI Control[™]"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 29)

- 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 the TV is in Standby mode.
- Image or sound may not be available for the first few seconds when 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 equipment that has "HDAVI Control 2 or later" function to the TV with an HDMI cable, the sound from the DIGITAL AUDIO OUT terminal can be output as multi-channel surround.
- "HDAVI Control 5" is the newest standard (current as of December, 2010) 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 HD devices.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a Cable or Satellite 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" or "HDMI 2 in" menu screen. (p. 46) 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", 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 p. 53.

DIGITAL AUDIO OUT terminal

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.
- 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 a 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 other formats, the output will be PCM.

Closed Caption (CC)

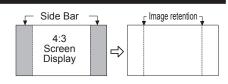
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- The CC can be displayed on the TV only when the receiver (such as a Cable box or satellite receiver) has the CC set to ON within the device itself. Check with your Cable or Satellite provider for instructions. <u>The TV's CC button does not operate the Satellite or Cable box's CC function</u>.
- 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.

4:3 side bars

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 page 48 for more information

• The side bar may flash (alternate black/white) depending on the picture.



PC Input Terminals

Signal Names for D-sub 15P Connector

	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
	1	R	6	GND (Ground)	1	NC (not connected)
678910	2	G	\bigcirc	GND (Ground)	12	NC
	3	В	8	GND (Ground)	13	HD/SYNC
	4	NC (not connected)	9	NC (not connected)	14	VD
Pin Layout for PC Input Terminal	5	GND (Ground)	10	GND (Ground)	15	NC

Input signal that can be displayed

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

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080)/60p	67.43	59.94		*	
1,125 (1,080)/60p	67.50	60.00		*	
1,125(1,080)/24p	26.97	23.98		*	
1,125(1,080)/24p	27.00	24.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.44	59.89			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 768 @60	47.78	59.87			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.39	60.04			*

Note

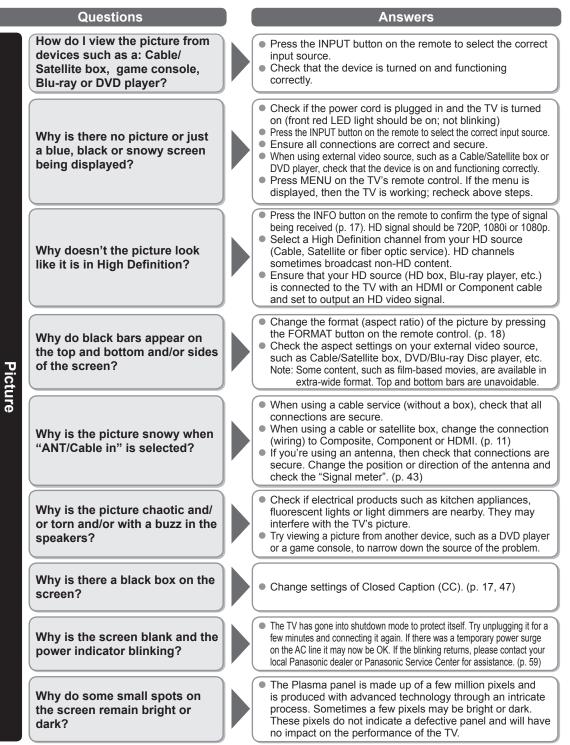
• Signals other than above may not be displayed properly.

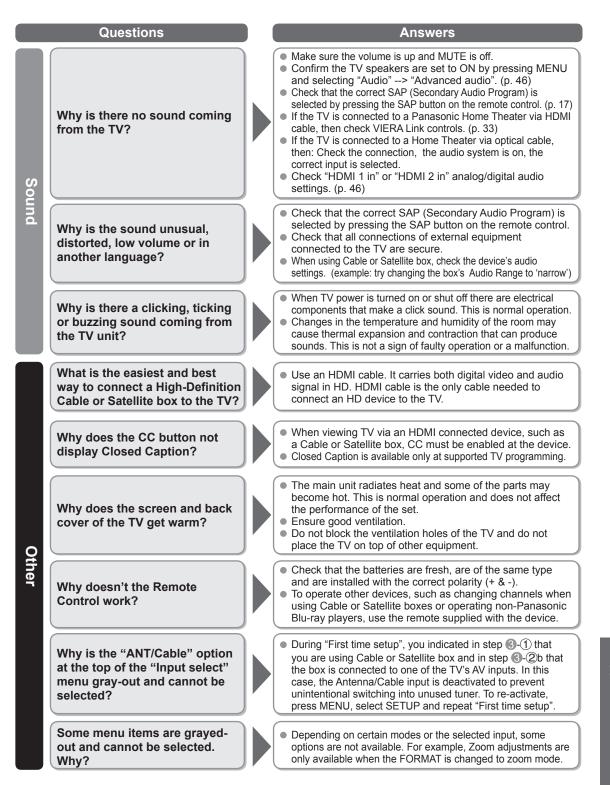
• The above signals are reformatted for optimal viewing on your display.

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.)

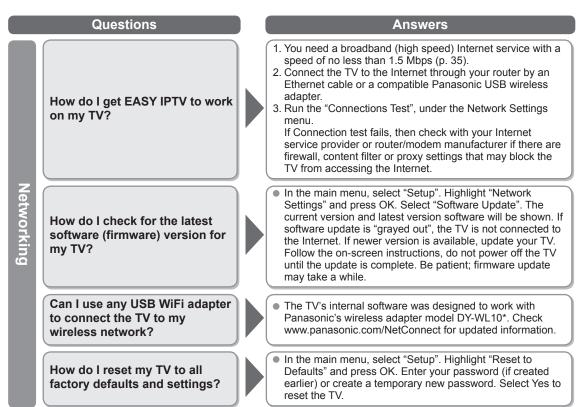
Frequently Asked Questions (FAQ)

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, visit the Panasonic web site for further assistance. (see cover)





Frequently Asked Questions (FAQ) Support Information



* Model number is subject to change without notice.

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.
- Do not let articles made from rubber or PVC be in contact with the TV for long periods of time.

Pedestal

Cleaning

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

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

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

Specifications

		TC-42PX34X	TC-50PX34X			
Power Source		AC 110-127 V, 60 Hz				
Power Consumption	Rated Power Consumption	199 W	262 W			
nption	Standby condition	0.2 W	0.2 W			
Plasma I panel	Drive method	AC type				
nel	Aspect Ratio	16:9				
aDi	Visible screen size (W × H × Diagonal)	42 " class (41.6 inches measured diagonally)	50 " class (49.9 inches measured diagonally)			
Display	(No. of pixels)	36.2 " × 20.4 " × 41.6 " 43.5 " × 24.4 " × 49.9 " (921 mm × 518 mm × 1,057 mm) (1,105 mm × 622 mm × 1,268 mm)				
		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dot	s]			
Sound	Audio Output	20 W [10 W + 10 W] (10 % THD)				
PC signals VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz						
	nnel Capability tal/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135				
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 20 % – 80 % RH (non-cor				
	VIDEO IN	VIDEO:RCA PIN Type × 11.0 VAUDIO L-R:RCA PIN Type × 20.5 V				
Con	COMPONENT IN	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]				
Connection Terminals	HDMI 1-2	TYPE A Connector × 2 ● This TV supports "HDAVI Control 5" function.				
on Ter	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)				
min	USB 1-2	USB 2.0 Type A connector x 2 (DC5V MAX500mA)				
als	LAN (for IPTV)	RJ45 (10BASE-T/100BASE-TX)				
	Card slot	SD CARD slot × 1				
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic				
FEATURES		3D Y/C FILTER CLOSED CAPTION V-Chip EASY IPTV VIERA IMAGE VIEWER Media player	HDAVI Control 5			
Dimensions (W×H×D)	Including pedestal	40.3 " × 26.8 " × 12.1 " (1,023 mm × 679 mm × 307 mm)	47.8 " × 31.3 " × 14.1 " (1,212 mm × 793 mm × 357 mm)			
isions 1 × D)	TV Set only	40.3 " × 25.1 " × 3.4 " (3.7 ") (1,023 mm × 637 mm × 85 mm (93 mm))	47.8 " × 29.5 " × 3.4 " (3.7 ") (1,212 mm × 747 mm × 85 mm (93 mm))			
Mass	Including pedestal	51.9 lb. (23.5 kg)	69.5 lb. (31.5 ^k g)			
SS	TV Set only	49.7 lb. (22.5 kg)	66.2 lb. (30.0 kg)			
		[TC-42PX34X] 3.7 " (93 mm) 3.4 " (85 mm) (85 mm) (85 mm) (85 mm) (85 mm)	[TC-50PX34X] 3.7 " (93 mm) 3.4 " (85 mm) (85 mm) (85 mm)			
	to	17.2 " (436 mm), 12.1 " (307 mm)	17.2 " (436 mm)14.1 " (357 mm)			

Note

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

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