	nn be found on its back cover. You should note this serial ok, plus your purchase receipt, as a permanent record of it or loss, and for Warranty Service purposes.
Model Number	Serial Number
	más el recibo de su compra, como prueba permanente de lo en el caso de que le sea sustraído o lo pierda, y también
Modelo	Número de serie

Panasonic Puerto Rico, Inc.

Panasonic Consumer Electronics Company, **Division of Panasonic Corporation** of North America One Panasonic Way, Secaucus

New Jersey 07094 U.S.A.

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Panasonic[®]

Operating Instructions High Definition Plasma Television Manual de instrucciones Televisor de plasma de alta definición

Model No. Número de modelo TH-50PZ750U TH-58PZ750U



(See page 6)

Guía de inicio rápido

(vea la página 6)

For assistance (U.S.A.), please call: 1-888-VIEW-PTV (843-9788)

or visit us at www.panasonic.com/contactinfo

For assistance (Puerto Rico), please call: 787-750-4300

or visit us at www.panasonic.com

For assistance (Canada), please call: 1-800-561-5505

or visit us at www.panasonic.ca

■ Para solicitar ayuda (EE.UU.), llame al: 1-888-VIEW-PTV (843-9788)

ó visítenos en www.panasonic.com/contactinfo

Para solicitar ayuda (Puerto Rico), llame al: 787-750-4300

ó visítenos en www.panasonic.com











English

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

Español

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

TQB2AA0755

Turn your own living room into a movie theater!

Experience an amazing level of multimedia excitement





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Contents

Please	read	hefore	neina	the	H

Safety Precautions	4
Notes	

Quick Start Guide

Caron Caro Carao
● Accessories/Optional Accessory ···
● To Prevent TV from Falling Over ···
● Before Connection ·······
Basic Connection
● Identifying Controls ·······
● First Time Setup ····································

Enjoy your TV! Basic Features

Watching TV·····	20
Viewing from SD Card ······	
Watching Videos and DVDs·····	
Displaying PC Screen on TV	30

Advanced Features

How to Use Menu Functions
(picture, sound quality, etc.) 32
■ EZ Sync™ "HDAVI Control™"·······36
● Lock38
Editing and Setting Channels40
■ Input Labels/Monitor Out/Closed Caption ····· 42
Using Timer 44
Operating Peripheral Equipment45
Recommended AV Connections46

FAQs, etc.

 Remote Control Operation/Code List 48 Ratings List for Lock 52 Maintenance 53 Technical Information 54 FAQ 58 Specifications 60 Limited Warranty (for U.S.A.) 61 Customer Services Directory (for U. S. A.) 62 	
Customer Services Directory (for U. S. A.)···· 62 Limited Warranty (for Canada)······ 63	

Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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. 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.

WARNING:

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

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



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

FCC STATEMENT

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

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

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

FCC Caution:

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

FCC Declaration of Conformity Model No. TH-50PZ750U, TH-58PZ750U

Responsible Party: Panasonic Corporation of North America

One Panasonic Way, Secaucus, NJ 07094

Contact Source: Panasonic Consumer Electronics Company 1-888-VIEW-PTV (843-9788)

email: consumerproducts@panasonic.com

CANADIAN NOTICE:

For Models TH-50PZ750U, TH-58PZ750U

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

WARNING/CAUTION

№ WARNING

SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED.

KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN.
DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS,
INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS
TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG
CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.

■ Set up

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

The Plasma TV may fall off or tip over.

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

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

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

- Wall-hanging bracket (Vertical) TY-WK42PV3U (TH-50PZ750U, TH-58PZ750U)
- Wall-hanging bracket (Angled) TY-WK42PR3U (TH-50PZ750U)

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

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

Transport only in upright position!

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

■ AC Power Supply Cord

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

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

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

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

Doing so may cause fire or electric shocks.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

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

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

■ If problems occur during use

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

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

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

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



Do not cover the ventilation holes.

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

If using the pedestal, leave a space of 3 15/16 " (10 cm) or more at the top, left and right, 1 49/64 " (4.5 cm) or more at the bottom, and 2 3/4 " (7 cm) or more at the rear.

■ When using the Plasma TV

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

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

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

Electric shocks can result if this is not done.

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

Built-up dust on the power cord plug can increase humidity
which might damage the insulation and cause fire. Unplug the
cord from the wall outlet and clean it with a dry cloth.
 This Plasma TV radiates infrared rays; therefore, it may

affect other infrared communication equipment.
Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

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

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

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

Notes

■ Do not display a still picture for a long time

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

Typical still images

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





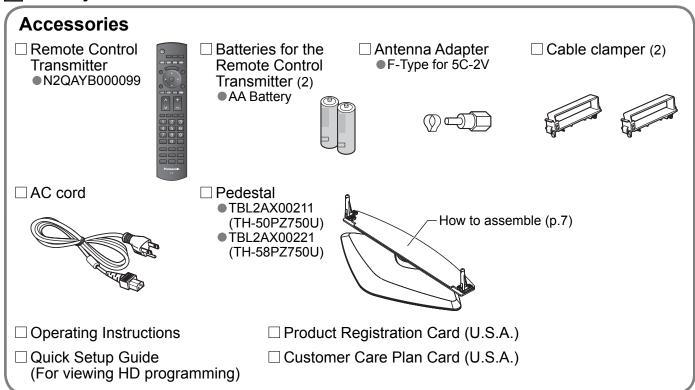
To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 59)

■ Setup

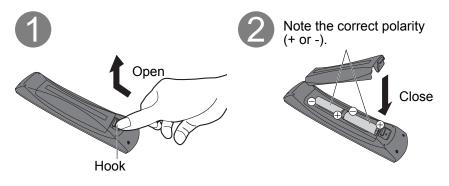
- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

Accessories/Optional Accessory

Check you have all the items shown.



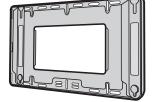
Installing the remote's batteries



Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 45)

Optional Accessory



Wall-hanging bracket (vertical)

TY-WK42PV3U (TH-50PZ750U. TH-58PZ750U)

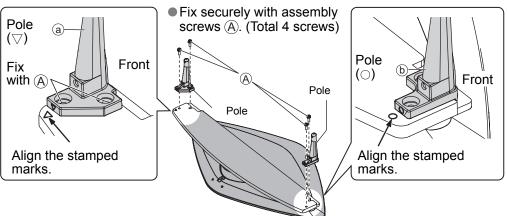
TY-WK42PR3U (TH-50PZ750U)

Note

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

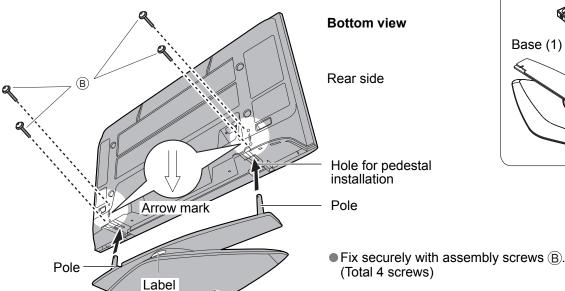
Attaching the pedestal to TV

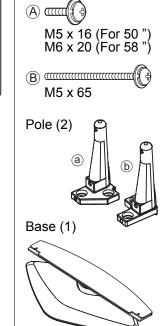
■Assembling the pedestal



■Set-up

Carry out work on a horizontal and level surface.





Accessories

Assembly screw

(4 of each)

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 television or displays other than those given in this Operating Instructions.

Base

• 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 while 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.

Use the accessory fall-prevention brackets to secure the TV.

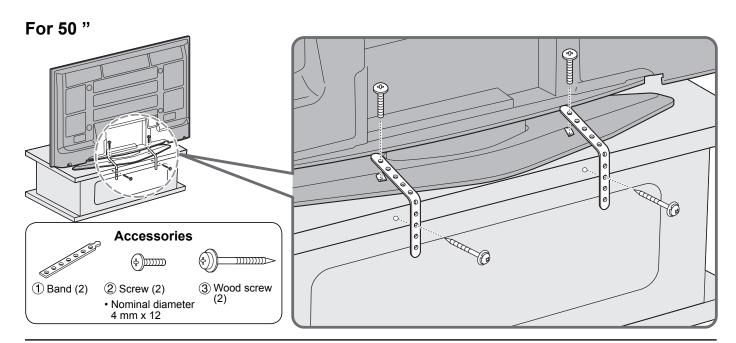
• If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

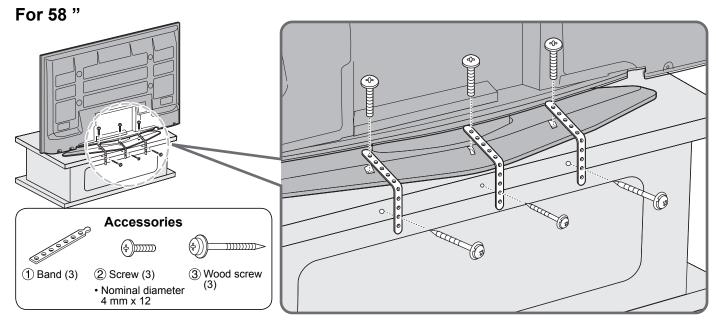
To Prevent TV from Falling Over

• The TV must be fastened to both a base and a wall.

Securing to a base

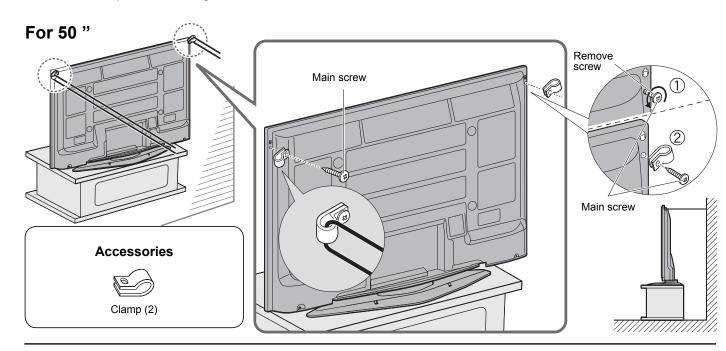
• Fix pedestal and base together with band.

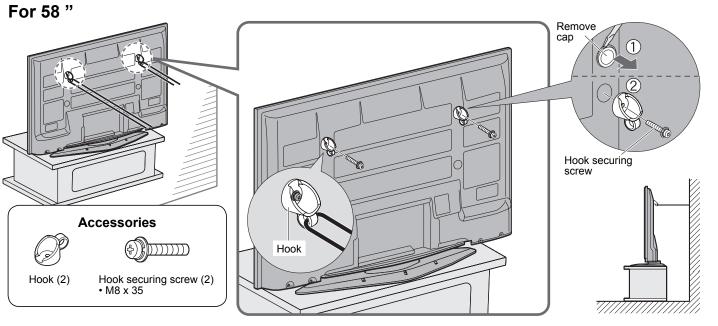




Securing to a wall

• Fix to wall or post with strong commercial wire or chain.





Before Connection

Connected Equipment Introduction (Signal source)

■Watching TV

- VHF/UHF Antenna
- NTSC (National Television System Committee): Conventional broadcasting
- ATSC (Advanced Television Systems Committee):
 Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround-sound audio and interactive television.
- Cable Box/Cable
- You need to subscribe to a cable TV service to enjoy viewing their programming.
- •You can enjoy high-definition programming by subscribing to a high-definition cable box. The connection can be done with the use of HDMI or Component Video cable.

■ Recording/playing back with DVD recorder or VCR

DVD Recorder

This source has higher resolution through interlace or progressive signal. Connection can be done with the use of Component Video or HDMI cable.

VCF

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



VHF/UHF Antenna

Cable Box/

Cable

■Watching Satellite

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



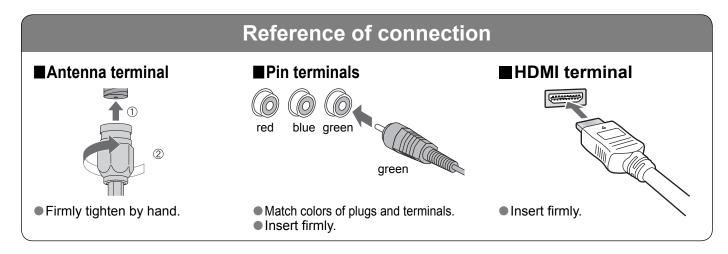
■ Enjoying Home theater and DVD recorder with HDMI connection

 Home theater and DVD Recorder
 HDMI connection enables you to enjoy higher quality audio and video with a single cable.



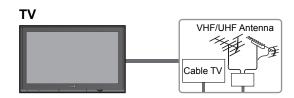
Note

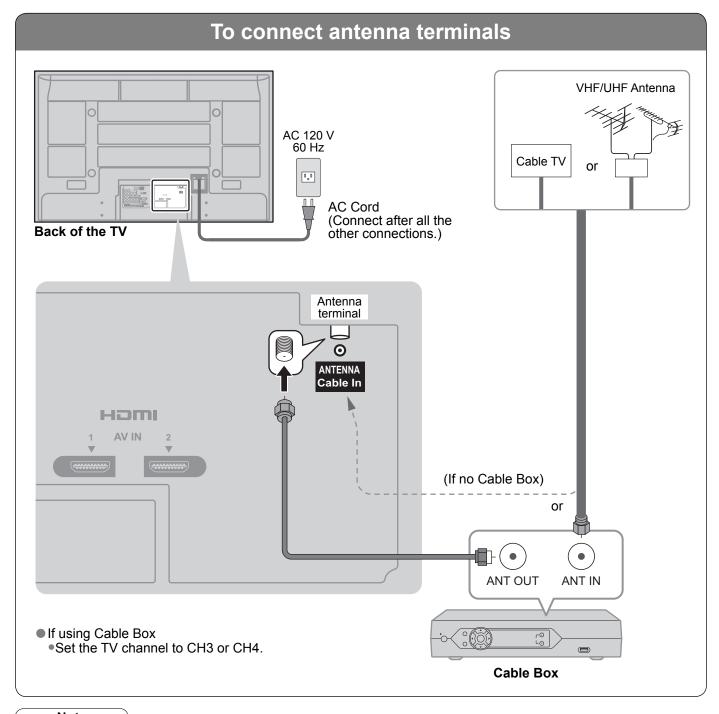
- If your Panasonic DVD Recorder is compatible with EZ Sync (HDAVI control 2), you can operate your Panasonic DVD Recorder with this TV's remote control (p. 29 EZ Sync™).
- All cables and external equipment shown in this book are not supplied with the TV.
- For the details of the external equipment's connections, please refer to the operating manuals for the equipment.



Basic Connection

Example 1 Connecting Antenna (To watch TV)





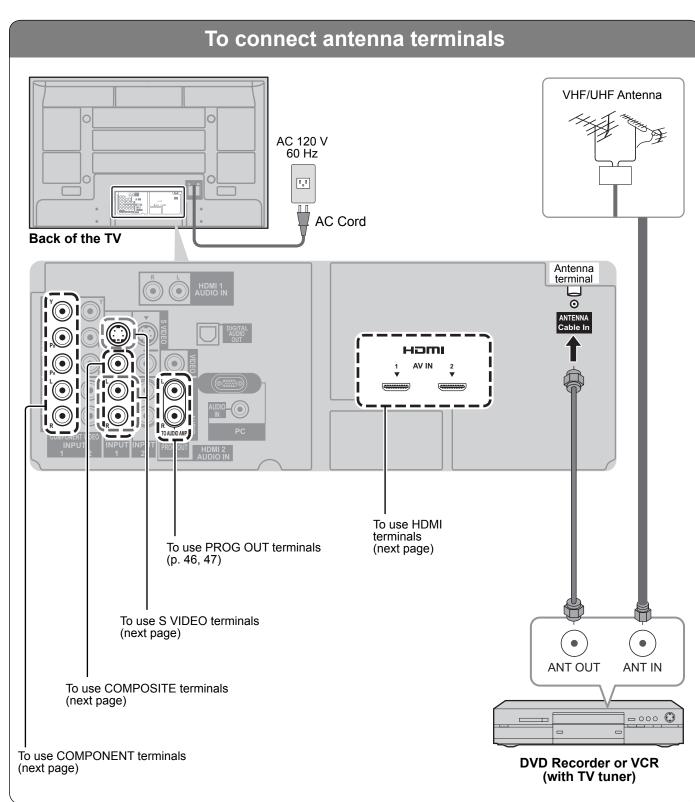
Note

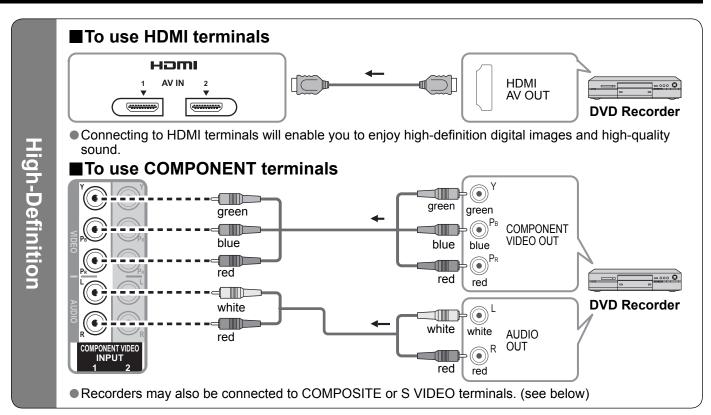
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com
 www.panasonic.ca

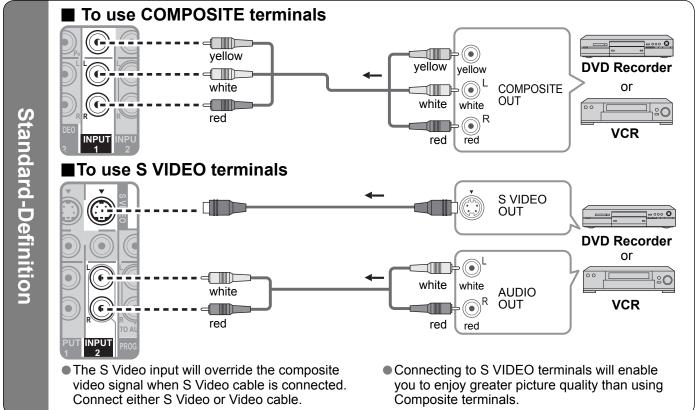
Basic Connection (Continued)

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









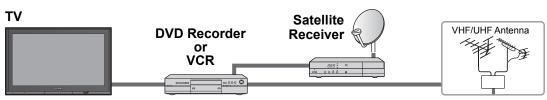
Some programs contain a copyright protection signal to prevent recording.

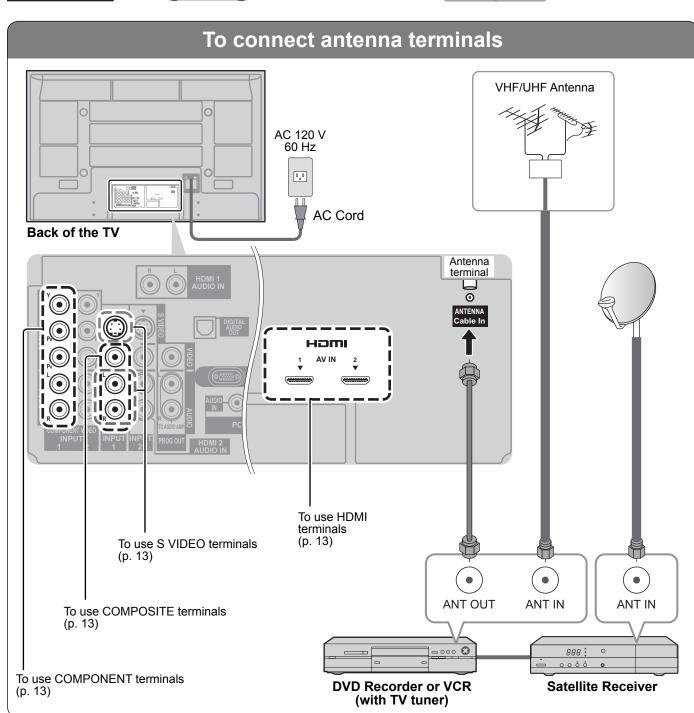
Note

• When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the other TV monitor.

Basic Connection (Continued)

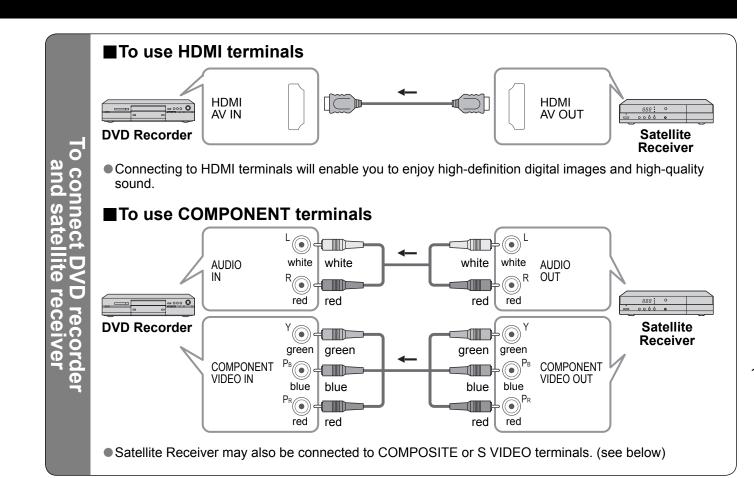
Example 3 Connecting DVD recorder (VCR) and satellite receiver

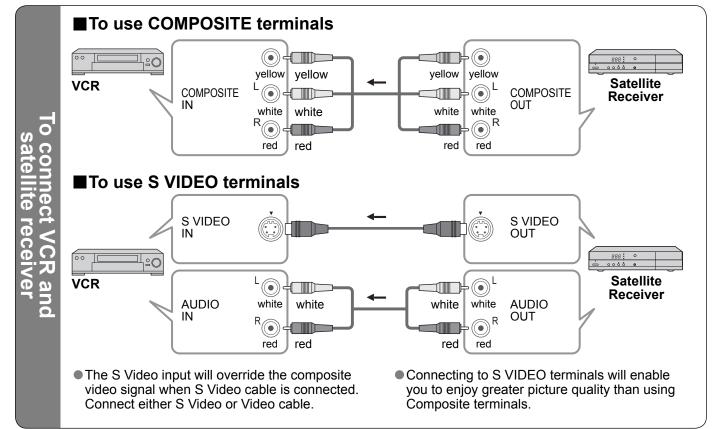






Connect in the same way as on p. 13.

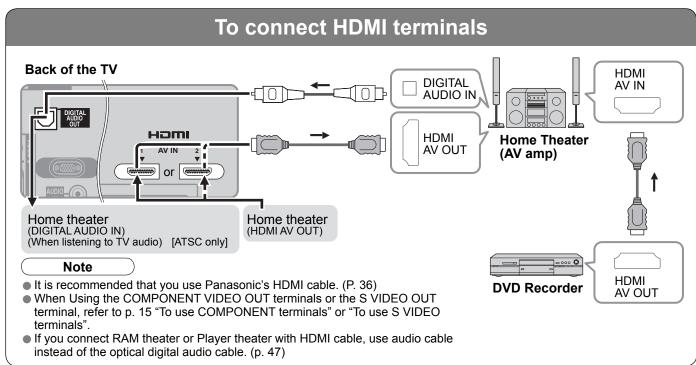


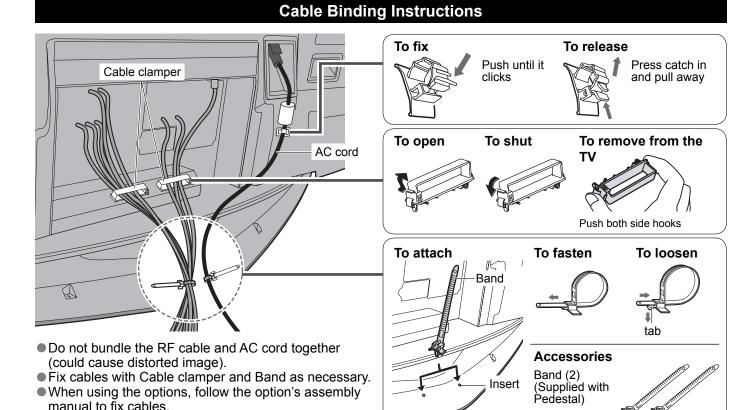


Basic Connection (Continued)

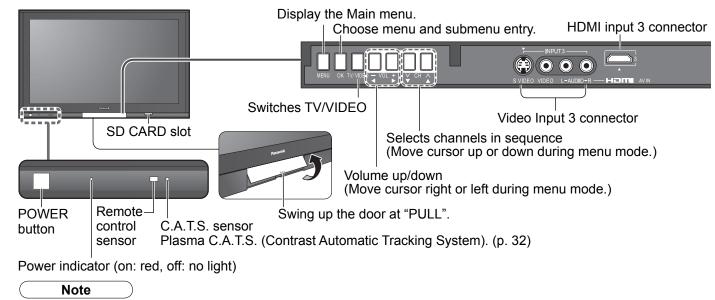
Example 4 **Connecting Home Theater and DVD recorder**



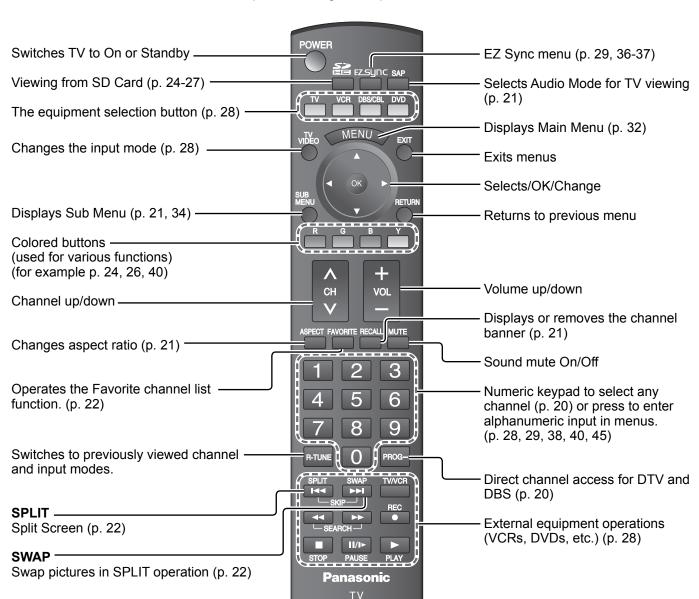




Identifying Controls



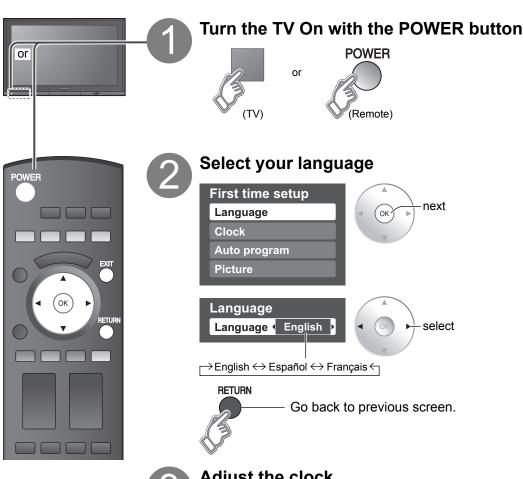
The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.

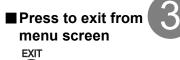


DVD Recorder

First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 34-35) is set to "No".







■ Press to return to previous screen RETURN

Note

To change setting (Language/Clock/Auto program/Picture) later, go to Menu screen (p. 32, 34)



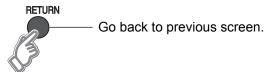




2 next



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





■ Press to exit from menu screen



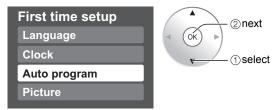
Note About broadcasting

systems

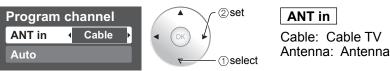
Analog (NTSC): traditional TV programming Digital (ATSC): new programming that allows you to view more channels featuring high-quality video and sound

Auto channel setup

1) Select "Auto program"



②Select "ANT in"



ANT in Cable: Cable TV

③Select "Auto"



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



Start scanning the channels

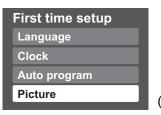
Available channels (analog/digital) are automatically set.

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

5 Confirm registered channels



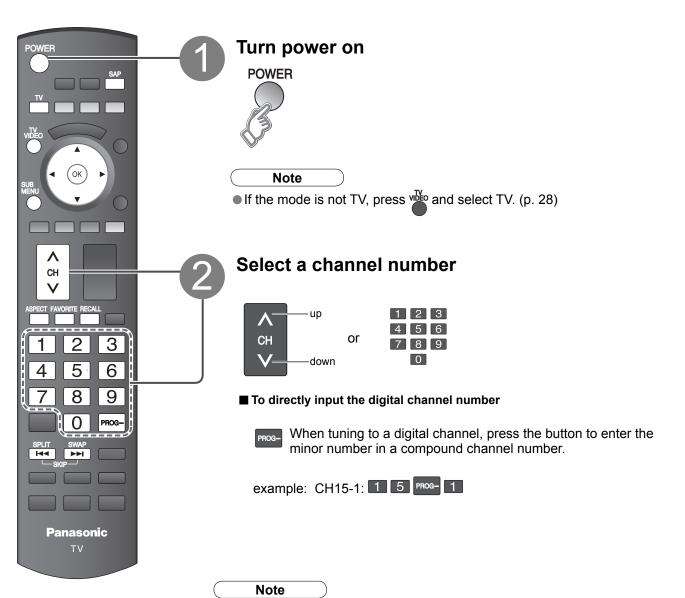
- If OK is not pressed after selecting "Apply", the channels will not be saved.
- If you perform scanning more than twice, previously saved channels are erased.



(Refer to p. 32)

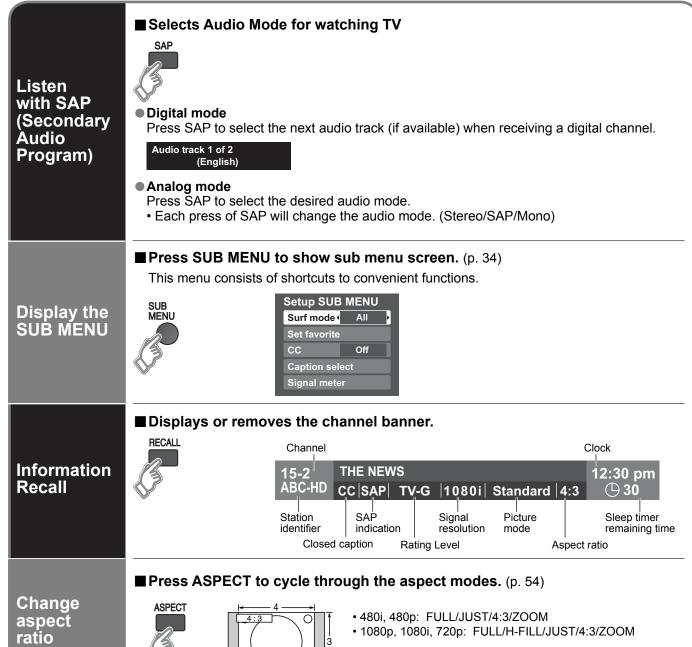
Watching TV

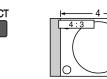
Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 10-15)



- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 19, 41)
- The channel number and volume level remain the same even after the TV is turned off.

■ Other Useful Functions (Operate after ②)

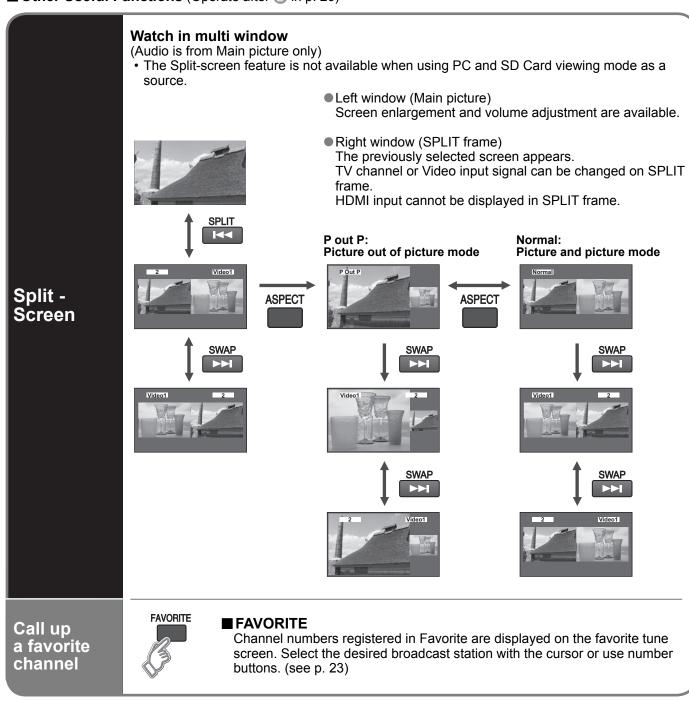




• 1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM

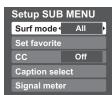
Watching TV (Continued)

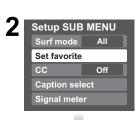
■ Other Useful Functions (Operate after ② in p. 20)

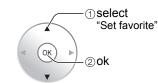


Set Favorite Feature



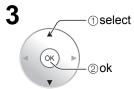








 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).





Press ▲ ▼to highlight a position on the list.

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

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

To delete a favorite channel

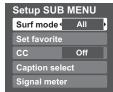
A saved channel can be removed from the list by holding down OK while its position is highlighted.

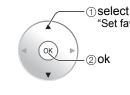
To change the page Pressing ◀ changes the page backward.

Pressing ► changes the page forward.

1 Display the SUB MENU.









FAVORITE

1 26-1 ---

2

3

4

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

Use Favorite Feature

Press FAVORITE.

2/3, 3/3, or exit).

Press FAVORITE repeatedly

to change between pages (1/3,

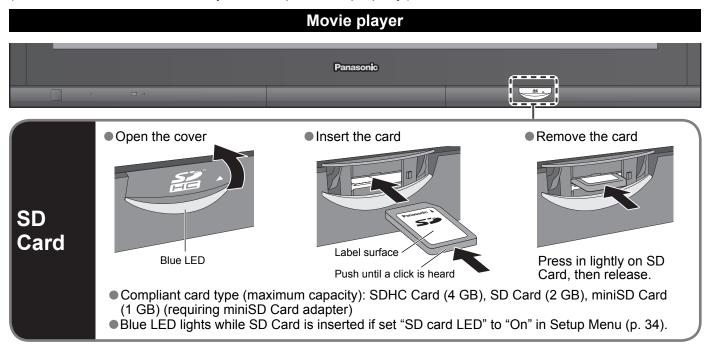
· Selecting a channel number from the list with the number button will display the channel directly.

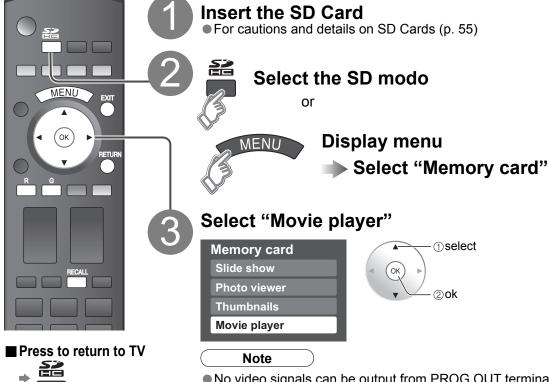


Press OK to display the highlighted channel.

Viewing from SD Card

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



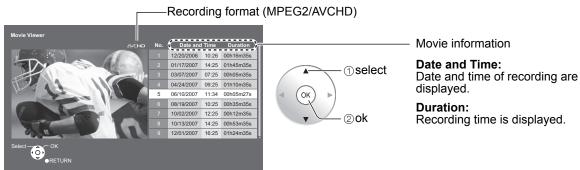


No video signals can be output from PROG OUT terminal when playing the movie.

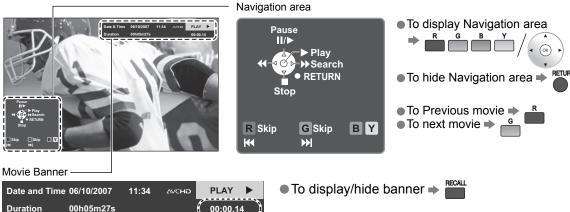
This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or 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.

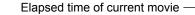


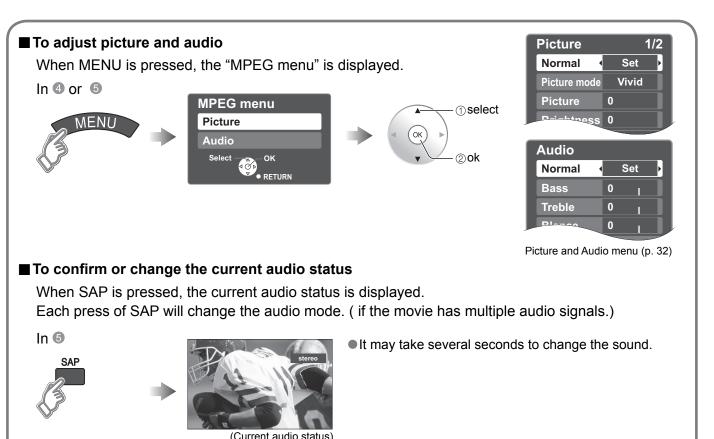
Select the movie to be listed











24

■ Press to exit from

menu screen

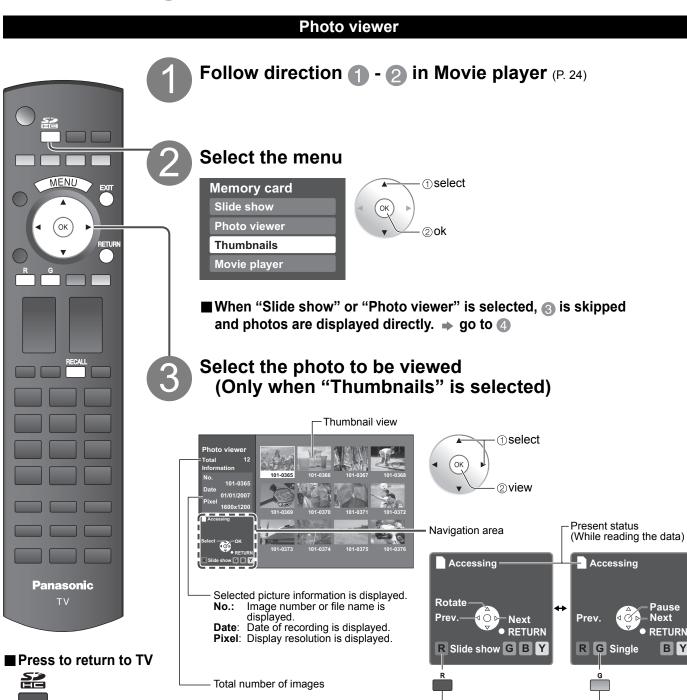
■ Press to return to

RETURN

the previous screen

⇒ EXIT

Viewing from SD Card (Continued)



■ Press to exit from menu screen

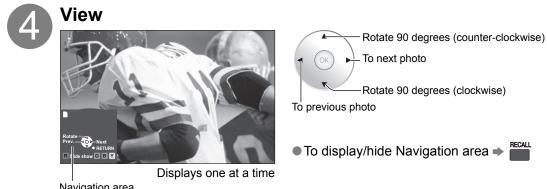
■ Press to return to the previous screen
RETURN

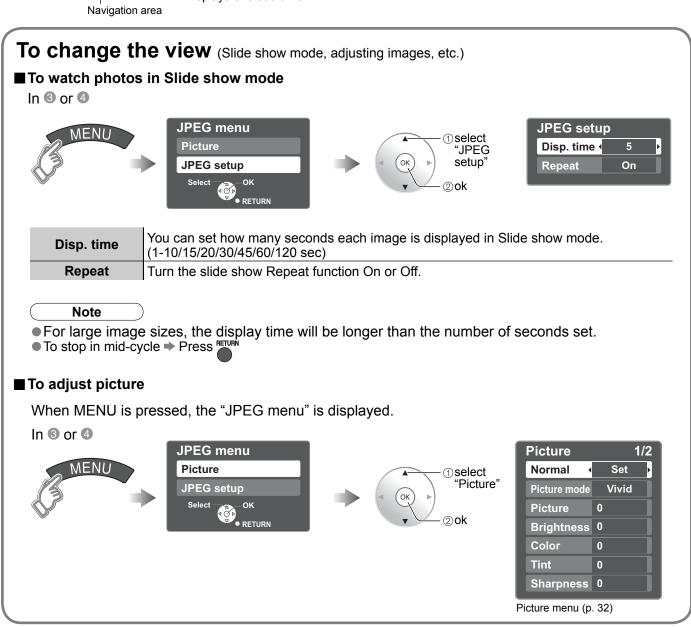
Note

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

(to Slide show)

(to Single photo display)





Viewing from a GalleryPlayer SD Card

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

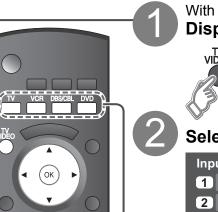
Watching Videos and DVDs

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

Input Select

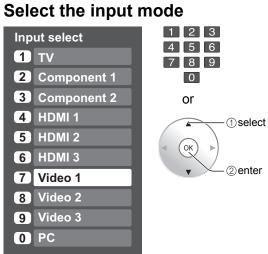
You can select the external equipment to access.

To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 45)



With the connected equipment turned On Display the Input select menu





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

Select the input of your choice, then press OK.

- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- The terminal and label of the connected equipment is indicated. To label each of the inputs please refer to p. 42-43.

Select the remote control mode

(example)

(example)

Press the key to select

Operate the connected equipment, pointing remote control at the equipment.

■ To return to TV

1 2 3

4 5 6

7 8 9

0

→ •

■ II/I≻ **►**

Panasonic

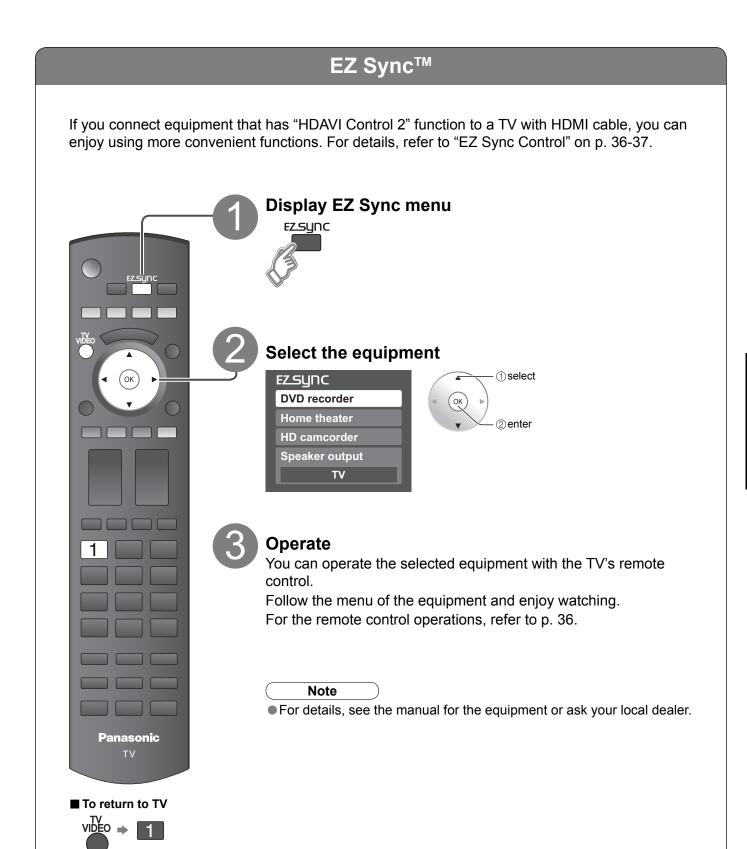
SPLIT SWAP

Note

For details, see the manual of the equipment.

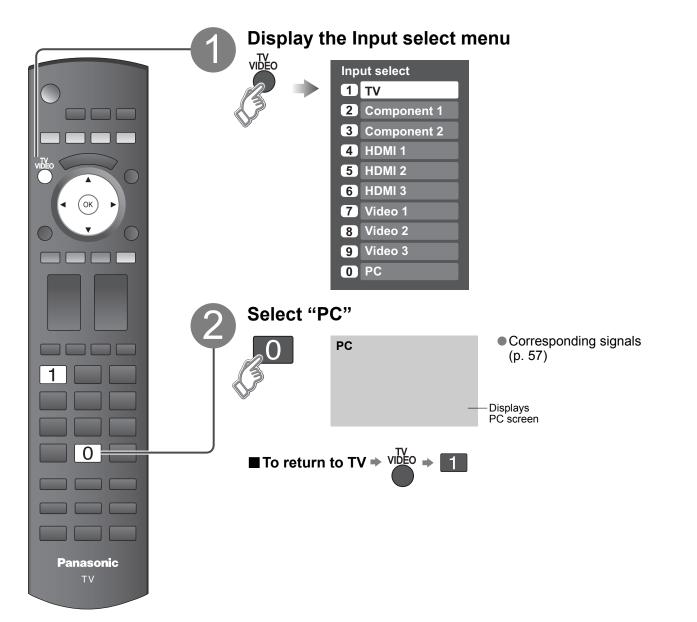
		(oxampio)
	VCR MODE	DVD MODE
REC	VCR Record	Record
—SKIP— I≺✓ ►►I	-	Skip Reverse/Forward
— SEARCH —	Rewind/Fast Forward	Reverse/Forward
STOP	Stop	Stop
PAUSE II/I>	Pause	Pause
PLAY	Play	Play
·- ·		

(For other operations, see p. 48)



Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV. You can also listen to PC sound with the audio cable connected. To connect PC (p. 46)



■ PC menu setting (changed as desired)

Making settings → "How to Use Menu Functions" 1 to 4 (p. 32)

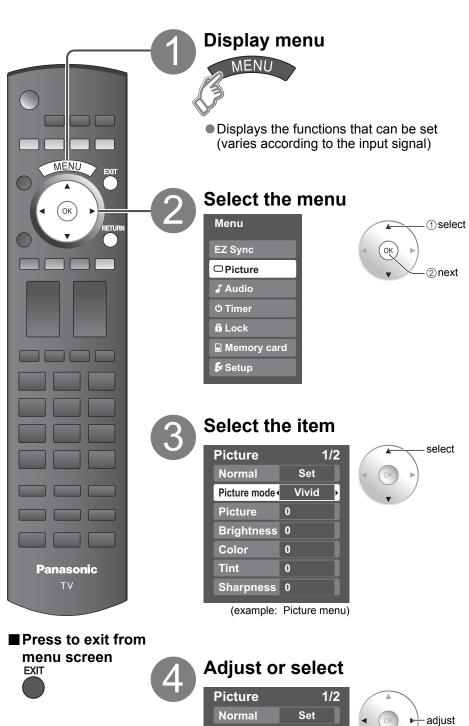
Menu Item		em	Adjustments/Configurations (options)			
		Normal	Resets PC adjust (Set/No)			
		Sync	 H & V: The H and V sync signals are input from the HD/VD connector. (p. 57) On G: Uses a synchronized signal on the Video G signal, which is input from the G connector. (p. 57) 			
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.			
		H-position	Adjust the horizontal position.			
Picture	PC adjust	V-position	Adjust the vertical position.			
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.			
		Input resolution	Switches to wide display. Input signal switched from VGA to WVGA Input signal switched from XGA to WXGA			
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz			

Audio menu (p. 32)

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

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.



Picture mode

Vivid

Sharpness 0

(example: Picture menu)

- ME	u	<u> </u>	
Menu		Item	
Ų	DVI	D recorder,	
CO		ne theater,	
Ϋ́		camcorder,	
ดี		eaker output	
	Normal		
	Pict	ture mode	
	Pict	Picture, Brightness,	
	Col	or, Tint, Sharpness	
	Color temp.		
	Color mgmt.		
	C.A.T.S.		
	Pro	setting	
ס	Zoo	om adjust	
Picture	РС	adjust	
Ę		Video NR	
o,		3D Y/C filter	
		3D 170 liller	
	Q	Color matrix	
	Other adjust	Block NR	
	ad	Mosquito NR	
	jus	Black level	
	†	3:2 pulldown	
		HD Size	
	Nor	mal	
	Bas	s	
	Tre	ble	
	Bala	ance	
		Al sound	
		7 11 3 3 3 11 11	
Þ		BBE VIVA 3D	
udic	Oth	BBE	
	Other adjust	Surround	
	djus	Speaker output	
	•	HDMI 1 in	
		HDMI 2 in	
		HDMI 3 in	
		Audio leveler	
Timer	Sle	ep, Timer 1-5	
Lock			
Memory Card	Mer	mory card	

■ Menu list

	Adjustments/Config	jurations (alterna	tives)			
[DVD recorder/Home theater/HI Select equipment to access and of [Speaker output] Select audio output. (Home theat	operate. (p. 36) t er/TV) (p. 36)		E <u>Z.S</u>			
 EZ Sync menu is accessible dire Resets all picture adjustments to 				(p. 29)	Normal	Se
Basic picture mode (Vivid/Standa			Jen 140)		Picture mode	
Adjusts color, brightness, etc. for	7 (1	,	Picture	+20	Tint	0
Adjusts color, brightness, etc. for	each picture mode to suit you	i laste	Brightness	0	Sharpness	0
			Color	0	Onarphiess	
Selects level of warm colors (red)	and cool colors (blue) (Cool/	Normal/Warm)			Color temp.	Co
On: Enhances green and blue co			Off)		Color mgmt.	0
Adjusts the brightness and grada		· · · · · · · · · · · · · · · · · · ·	,		C.A.T.S.	0
Adjust the "Picture mode" setting	in more detail. (p. 56)	· · · · · · · · · · · · · · · · · · ·			Pro setting	
(This setting can be adjusted only						
Adjusts vertical alignment and siz	e wnen aspect setting is "ZOC	ואוע" (p. 54)			Zoom adjust	
Sets PC display (p. 31)					PC adjust	
Reduces noise, commonly called		ving a strong signal.	(Off/On)		Video NR	0
Minimizes noise and cross-color i		(OD)			3D Y/C filter	0
 Selects image resolution of comp SD: Standard Definition HI Only 480p signal accepted; reg 	D: High Definition	•			Color matrix	S
Reduces noise of specific digital s	· · · · · · · · · · · · · · · · · · ·				Block NR	0
Reduces HDTV flicker noise in th	e contoured sections of an im	age (Off/On)			Mosquito NR	0
Selects Dark or Light. Valid only for	or external input signals. (Dar	k/Light)			Black level	Lig
Transfers film to video. (On/Off)	. , ,	<u> </u>			3:2 pulldown	0
Selects between 95 % (Size 1) or Select "Size 1" if noise is generate Size 1: Selected item for "HD solice Size 2: Selected item for "HD solice Size 3: Selected Size 3: Se	ed on the edges of the screen ize". Scanning 95%	ing area when HDTV	/. (Size 1/ Siz	e 2)	HD Size	siz
Resets Bass, Treble and Balance	adjustments to factory defaul	t settings. (Set/No)			Normal	Se
Increases or decreases the bass	response.				Bass	+ 4
Increases or decreases the treble	response.				Treble	0
Emphasizes the left / right speake	er volume.				Balance	0
Equalizes overall volume levels a	cross all channels and extern	al inputs. (On/Off)			Al sound	Oı
BBE ViVA HD3D (High-Definition sound. The clarity of the sound is are expanded by BBE's proprieta programs including news, music,	improved by BBE while the w ry 3D sound process. BBE Vividramas, movies, sports and e	ridth, depth and heig VA HD3D Sound is c electronic games. (O	ht of sound in compatible wit n/ Off)	nage h all TV	BBE VIVA 30	0
BBE High Definition Sound restor realism. (On/Off)	es clarity and presence for be	tter speech intelligib	ility and musi	cal	ВВЕ	0
Enhances audio response when I	• • •				Surround	0
Switches to "Off" when using exte "Al sound", "Surround", and "Al		ff" is selected			Speaker outpu	
Selects according to the signal wl Auto: Automatically selects An		/Digital/Analog)			HDMI1 in HDMI2 in HDMI3 in	Au Au
Minimizes volume disparity after s	switching to external inputs				Audio levele	r 0
The TV can automatically turn On	/Off at the designated date ar	nd time (p. 44)			Sleep	6
Locks the channels and programs						
[Slide show/Photo viewer/Thun Select the still picture viewing mo	n bnails] de. (p. 26)				Manie	
[Movie player]	\p·/				Memory card	1

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

32

■ Press to return

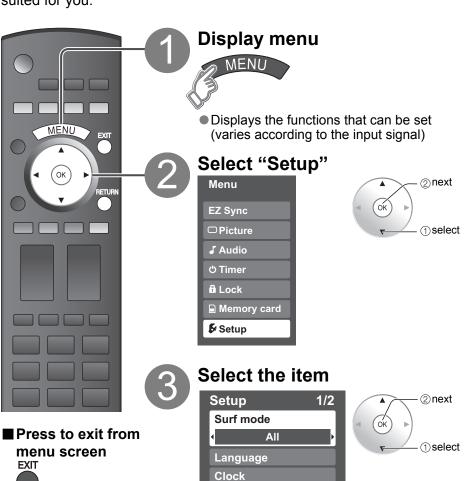
screen RETURN

to the previous

Reset

How to Use Menu Functions

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



Clock Program channel External devices ■ Press to return to the previous screen RETURN **Display Sub Menu** Select the item **Setup SUB MENU** Surf mode ◆ Set favorite Off

Caption select Signal meter

■ Menu list							
Menu	Item						
	Surf mode						
	Language						
	Clo	ck					
	Pro	gram channel					
	Exter	Input labels					
	External devices	Monitor out					
	СС						
	EZ S	EZ Sync					
	EZ Sync setting	Power off link					
		Power on link					
Se		Default speakers					
tup	Other adjust	Auto power on					
		Side bar					
		No signal shut-off					
		No action shut-off					
		SD card LED					
	Abo	out					
	Res	set					
		·					

-■Sub menu list

	Menu	Item			
	Setup SUB MENU	Surf mode			
		Set favorite			
		СС			
		Caption select			
		Signal meter			

(Continued)

Selects the screen menu language (p. 18) Clock Selects the clock (p. 18) Clock Sets channels (p. 40) Selects the terminal and label of the external equipment (p. 42) Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2/Video 3 To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) Displays subtitles (Closed Caption) (p. 42) Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. EZ Sync. Cottrols equipment connected to HDMI connection equipment (p. 36) (Set/No) Power off link" of HDMI connection equipment (p. 36) (Set/No) Selects the default speakers (p. 36) (Tt/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	Adjustments/Configurations (alternatives)	
Adjusts the clock (p. 18) Sets channels (p. 40) Sets channels (p. 42) Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2/Video 3] To prevent howing and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) Displays subtitles (Closed Caption) (p. 42) Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Selects the default speakers (p. 36) (TV/Theater) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when t		Surf mode All
Selects the terminal and label of the external equipment (p. 42) [Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2/Video 3] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) Displays subtitles (Closed Caption) (p. 42) Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Sets "Power on link" of HDMI connection equipment (p. 36) (Set/No) Selects the default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut-off". Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No ac	Selects the screen menu language (p. 18)	Language
Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2/Video 3 To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) CC	Adjusts the clock (p. 18)	Clock
Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2/Video 3] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) Displays subtitles (Closed Caption) (p. 42) Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Sets "Power on link" of HDMI connection equipment (p. 36) (Set/No) Power on link" of HDMI connection equipment (p. 36) (Set/No) Selects the default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. Not action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". Not action shut-off was activated will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". No action shut-off was activated will be displayed for about	Sets channels (p. 40)	Program channel
To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 42) (On/Off) Displays subtitles (Closed Caption) (p. 42) Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Sets "Power on link" of HDMI connection equipment (p. 36) (Set/No) Power on link Selects the default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (Bright/Off/Dark/Mid) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (Bright/Off/Dark/Mid) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". "The on-screen display will flash	Selects the terminal and label of the external equipment (p. 42)	
Controls equipment connected to HDMI terminals (p. 36) (On/Off) "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Pewer off link", "Power on link", and "First lime setup" of link and set	To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu.	
Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set. Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No) Sets "Power on link" of HDMI connection equipment (p. 36) (Set/No) Power off link" of HDMI connection equipment (p. 36) (Set/No) Selects the default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off" The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. No conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". No action shut-off was activated will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	Displays subtitles (Closed Caption) (p. 42)	СС
Selects the default speakers (p. 36) (TV/Theater) Default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Note on the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Sol card LED4		EZ Sync On
Selects the default speakers (p. 36) (TV/Theater) Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	Sets "Power off link" of HDMI connection equipment (p. 36) (Set/No)	Power off link Set
Turns TV On automatically when the cable box or a connected device is turned On (No/Set) The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 44) Change the brightness of the side bar (4:3 mode) and the extra space in Split-Screen mode. (Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power on", "On/Off Timer" or PC input display. No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power on", "On/Off Timer" or PC input display. No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	Sets "Power on link" of HDMI connection equipment (p. 36) (Set/No)	Power on link Set
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(Bright/Off/Dark/Mid) The recommended setting is "Bright" to prevent panel "Image retention". (p. 57) To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set.	Auto power on No
Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	(Bright/Off/Dark/Mid)	Side bar Brig
To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set) Note Not in use when setting "Auto power on", "On/Off Timer" or PC input display. "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	 (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD mode", PC input display or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on fo the first time after turning the power off by "No signal shut-off". 	r
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Displays TV version and software license.	Set to "On", if you light SD card LED while SD card is inserted. (On/Off)	SD card LED € On
	Displays TV version and software license.	About

	Adjustments/Configurations (alternatives)
Sets the	e mode to select the channel with Channel up/down button (Favorite/All)
Sets fav	vorite channels. (p. 23)
Display	s Closed Caption. (p. 42) (Off/On)
Change	es the station identifier. (p. 41)
Checks	the signal strength if interference or freezing occurs on a digital image. (p. 40)

Performing Reset will clear all items set with Setup, such as channel settings. (p. 40)

EZ SyncTM "HDAVI ControlTM"*

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

Eniov additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function This TV supports "HDAVI Control 2" function.

Connections to some Panasonic equipment (DVD Recorder DIGA, HD Camcorder, RAM theater, Player theater, Amplifier, etc.) with HDMI cables allow you to interface automatically.

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

Automatic Input Switching, Power on link, Power off link and Speaker control (p. 37).

In addition, the equipment with "HDAVI Control 2" function enables the following operation:

EZ Sync Control only with TV's remote control (for "HDAVI Control 2") (p. 37).

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

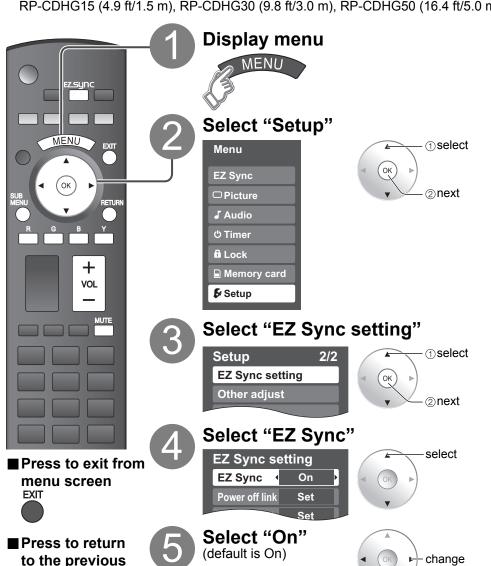
For the first time / When adding new equipment, reconnecting the equipment or changing the setup. After the connection turn the equipment on and then switch the TV on. Select the input mode to HDMI 1, HDMI 2 or HDMI 3 (p. 28), and make sure that an image is displayed correctly.

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-CDHG15 (4.9 ft/1.5 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)



If no HDMI equipment is connected or standard HDMI equipment (non- "EZ Sync") is used, set to "Off".

Automatic Input **Switching**

Speaker control

EZ Sync Control only with TV's remote control (for "HDAVI Control 2")

Power on link

Power off link

Default speakers

One-touch theater playback

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

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

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

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

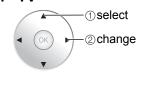
Control theater speakers with the TV's remote control.

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

1 Press EZSUNC

- 2 Select "Speaker output"
- ③Select "Home theater" or "TV"





■ Home theater: Adjustment for equipment

+ vol Volume up / down Mute

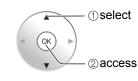
- The sound of the TV is muted.
- When the equipment is turned off, TV speakers become active.
- Selecting "Home theater" turns the equipment on automatically if it is in standby mode.
- **TV:** The TV speakers are active.

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

1) Press EZSYNC

2 Select the equipment you want to access.





You can select available items only.

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

■ Available TV's remote control buttons

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

When "Set" is selected (p. 35), TV is turned on automatically and switches to the appropriate HDMI input whenever EZ Sync compatible equipment is initially turned on and Play mode is selected.

When "Set" is selected (p. 35) and the TV is turned off, all connected EZ Sync compatible equipment is also automatically turned off.

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

Caution: The TV remains on even if the EZ Sync compatible equipment is turned off.

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

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

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

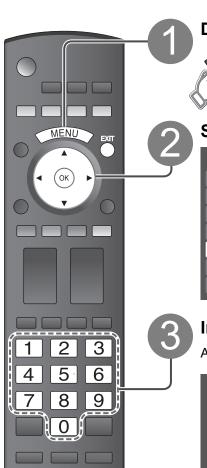
36

screen

RETURN

Lock

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

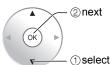


Display menu



Select "Lock"





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

Input your 4-digit password

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



Lock

Mode

Select the Lock mode

Off

Off

Off

Off



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

■ Press to exit from menu screen



Caution

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

Note

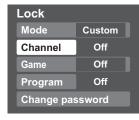
When you select a locked channel. a message will be displayed that allows you to view the channel if you input your password.



- Off: Unlocks all the lock settings of "Channel", "Game" and "Program".
- Locks all the inputs All: regardless of the lock settings of "Channel", "Game" and "Program".
- Custom: Locks specified inputs of "Channel", "Game" and "Program".

Select the item

Change password

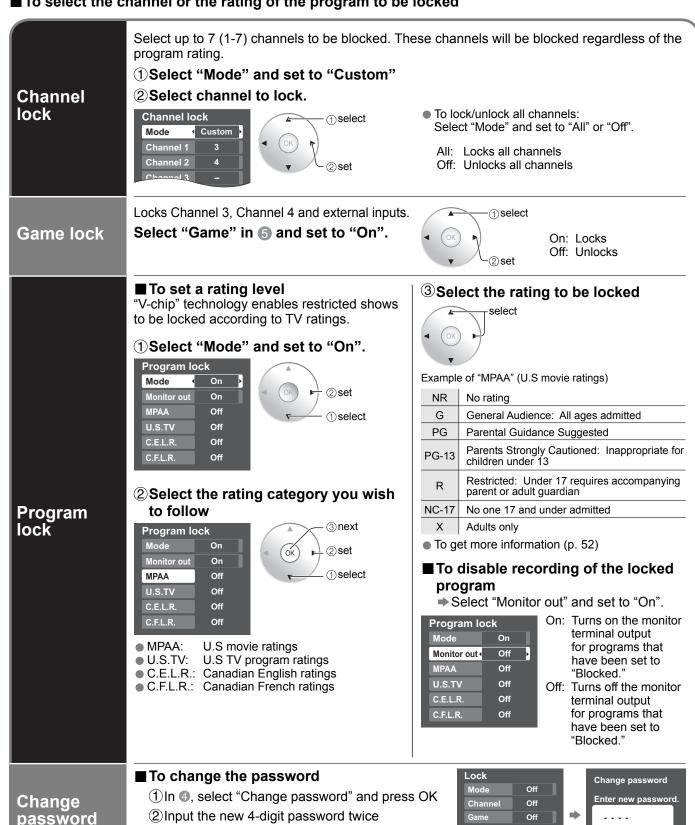




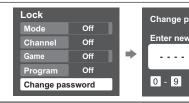
"Channel", "Game" and "Program" will grey out unless "Custom" is selected in "Mode".

Set

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



2 Input the new 4-digit password twice

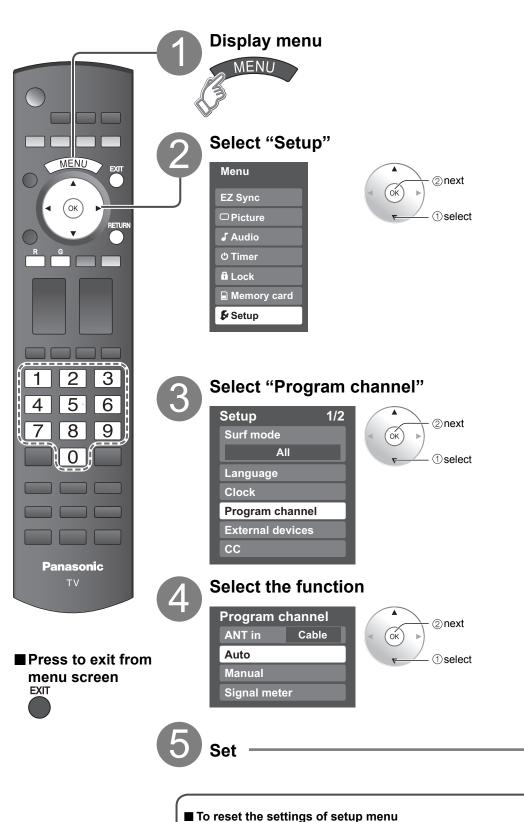




- Note
- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a block on a specific-age-based-rating level, the Off rating and any other more restrictive ratings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

Editing and Setting Channels

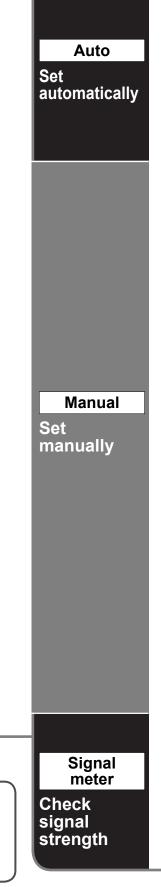
The current channel settings can be changed according to your needs and reception conditions.

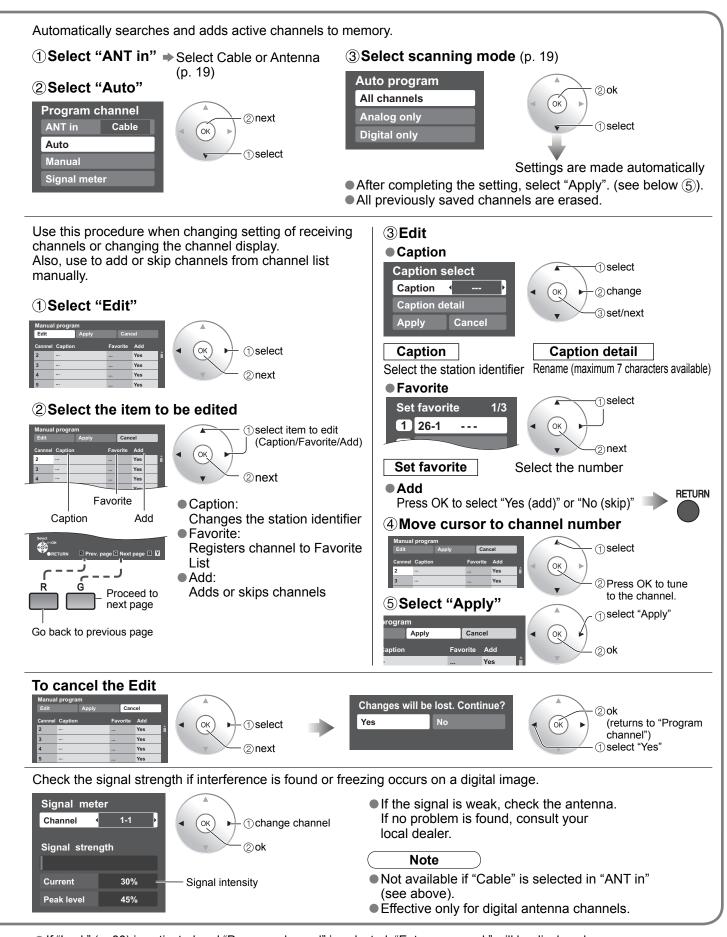


① Select "Reset" in Setup menu (3) and press OK

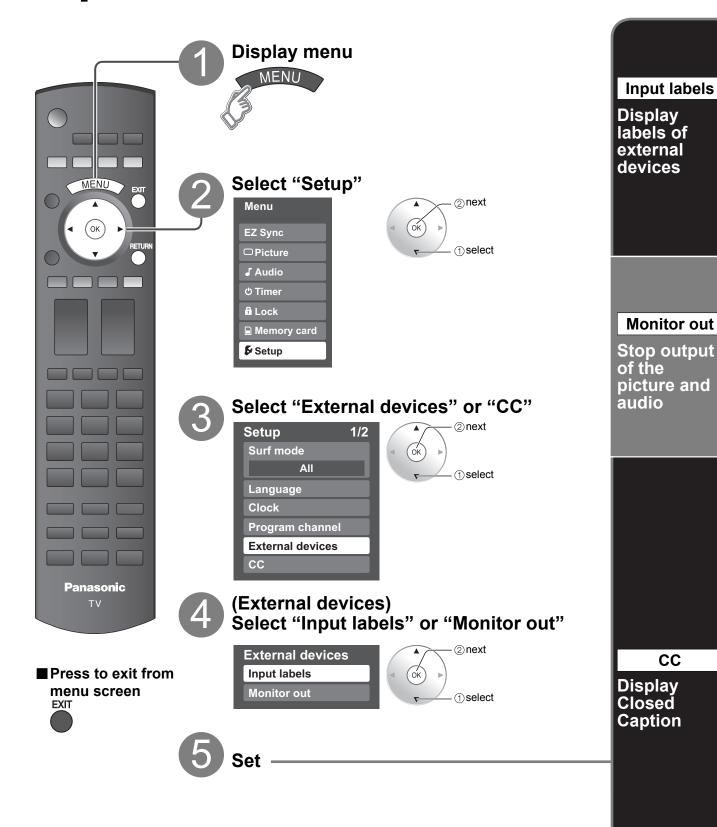
② Input your 4-digit password with number buttons

Select "YES" on the confirmation screen and press OK





Input Labels/Monitor Out/



Closed Caption

Devices connected to external input terminals can be labeled for easier identification during input selection. (In selecting input mode from p. 28 2)

■ Select the terminal and label of the external equipment



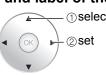
Input labels

Monitor out

CC

Caption

labels of



Terminals: Comp. 1-2/HDMI 1-3/ Video 1-3/PC ● Label: SKIP*/VCR/DVD/CABLE/

DBS/PVR/GAME/AUX/[BLANK] (for PC terminal, only SKIP and [BLANK] are available)

Terminal

* If "SKIP" is selected, the TV/VIDEO button press will skip its input.

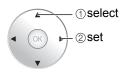
[example]

Label

To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 34)

■ Select the terminal and set "Off"

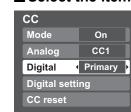


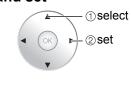


- Select "Off" to stop output of picture and audio. (Video 1/Video 2/Video 3)
- Comp. 1/Comp. 2/HDMI 1/HDMI 2/HDMI 3 cannot output video signals regardless of "Monitor out" setting. When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, only audio signals can be obtained. From the output terminals, no video signals can be passed.

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

■ Select the item and set





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

Select "On" (when not using, select "Off"). (Choose the Closed Caption service of Analog Analog broadcasting.) CC1-4: Information related to pictures (Appears at bottom of screen)

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

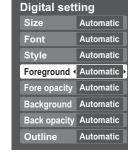
(The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.)

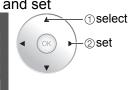
Select the setting.

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

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

- ① Select "Digital setting" and press OK
- 2 Select the item and set





- Size: Text size Font: Text font
- Style: Text style (Raised, Depressed, etc.)
- 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.)

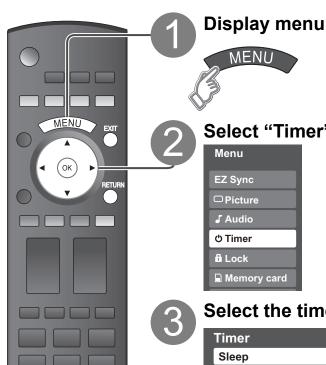
■ To reset the settings

Select "CC reset" and press OK

Using Timer

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

- The "Sleep" timer and "On / Off timer" will not function if "Auto power on" (p. 34) is set.



■ Press to exit from menu screen EXIT

■ Press to return to the previous screen



Note

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

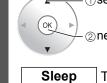


- The Clock must be set before On time/Off time settings. (p. 18)



Select the timer to set





Turns Off automatically Turns On/Off automatically (5 timers can be set.) Timer 5

■ To set "Sleep" (Off Timer)

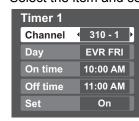
Set the timer

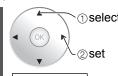
Set to shut the unit off after a pre-selected amount of time.



■ To set "Timer 1-5" (On/Off Timer)

Select the item and set





Channel | Select the channel Select the day

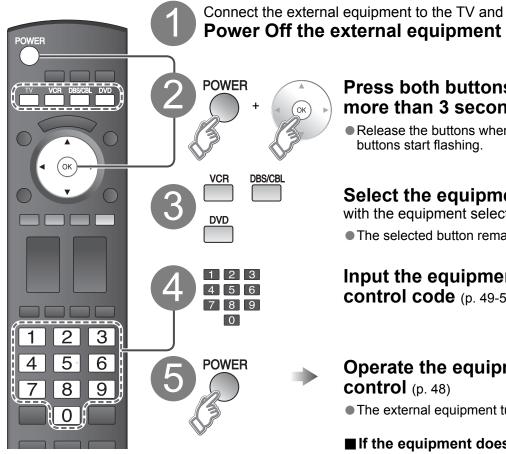
SUN/MON/TUE/WED/THU/FRI/SAT (displays the nearest future date) MON-FRI/SAT-SUN/DAILY/EVR SUN/EVR MON/ EVR TUE/EVR WED/EVR THU/EVR FRI/ EVR SAT

0/30/60/90 (minutes)

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

Operating Peripheral Equipment

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



Press both buttons simultaneously for more than 3 seconds.

Release the buttons when the equipment selection buttons start flashing.

Select the equipment

with the equipment selection button

• The selected button remains lit (other buttons are not lit).

Input the equipment's 4-digit remote control code (p. 49-51)

Operate the equipment with the remote control (p. 48)

- The external equipment turns On.
- If the equipment does not operate with the remote control
 - When your equipment has a single code
 - ➡ Input the remote control code again
 - When your equipment has multiple codes
 - Change the code with above and test again

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

To find a code not listed in the code list

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

1) After step (3) above, change the code and test

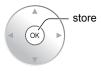


■ Press to return to the TV

mode

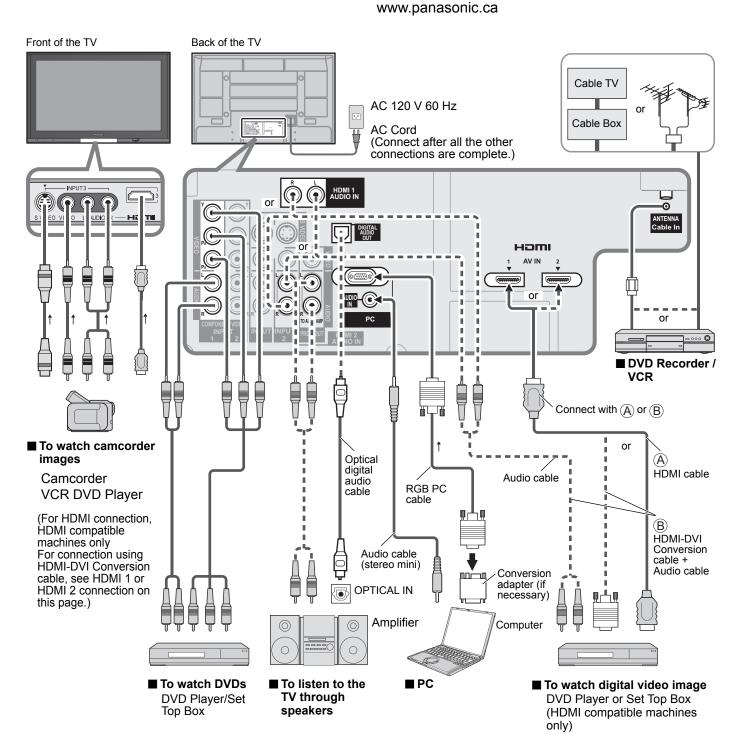
- Operate the equipment with the remote control (p. 48)
- Repeat until the code is found
- It may take many attempts before the correct code is found

2) When the correct code is found



Recommended AV Connections

These diagrams show our recommendations for how to connect the TV unit to your various equipment. For other connections, consult the instructions for each piece of equipment and the specifications (p. 60). For additional assistance, please visit our website at: www.panasonic.com



Note

- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 42) cannot be output from "PROG OUT" terminals. However, audio output can be obtained from "DIGITAL AUDIO OUT" terminal.
- To prevent howling and image oscillation, set the "Monitor out" setting when connecting the VCR with loop-connection. (p. 34, 42)
- When equipment (STB, DVD, etc.) is connected to HDMI, COMPONENT or PC terminals, only audio signals can be obtained. From the output terminals, no video signals can be passed.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.

EZ Sync™ Connections

Follow the connection diagrams below for HDAVI control of a single AV piece of equipment such as a Panasonic DIGA-DVD recorder, RAM theater, or Player theater system. Refer to page 36-37 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not provided.

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

Note

HDMI 1 is recommended

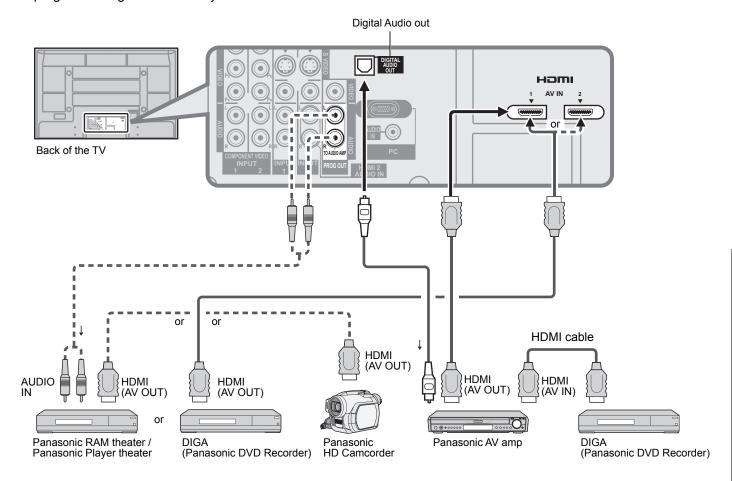
When connecting to HDMI 2, set the input mode to HDMI 2 (p. 28) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 36-37).

■ Connecting this unit to the DIGA, RAM theater, or Player theater

- For DIGA: Connect with HDMI cable
- For RAM theater and Player theater:
 Connect with the HDMI and audio cables.
 If audio cable is not connected, you cannot listen to the TV program through the theater system.

■ Connecting this unit to a DVD recorder and AV amp

When using an "EZ Sync" audio-video amplifier and a compatible DIGA recorder, use a daisy chain connection as shown below.



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

■ Setting of this unit after connection

After making connections as shown above, set "EZ Sync" (under "EZ Sync setting") to "On" using the Setup menu. (p. 36-37).

Note

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

Remote Control Operation/Code List

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

• Register the remote control codes (p. 45) if you want to operate an external device from another manufacturer. (p. 49-51)

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

■ Remote Control Operation List

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

VEV NAME	VCD MODE	DBS/CB	SL MODE	DVD MODE
KEY NAME	VCR MODE	(DBS)	(CBL)	DVD MODE
POWER	Power	Power	Power	Power
SAP	_	LIST	LIST	DVD AUDIO
VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
MENU	_	Menu	Menu	Functions
EXIT	_	Exit	Exit	_
	_	Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left
• OK	_	Select	Select	Enter
SUB MENU	_	Guide	Guide	Sub Menu
RETURN	_	PPV/VOD	PPV/VOD	Return
R	_	Red	A	Red
G	_	Green	В	Green
В	_	Blue	С	Blue
Y	_	Yellow	D	Yellow
소라 >	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
+ vor +	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
ASPECT	_	Aspect	Aspect	_
FAVORITE	_	Favorite	Favorite	Direct Navigator
RECALL	Onscreen Display	Info	Info/Display/OSD	Onscreen Display
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
0 - 9	0-9	0-9	0-9	0-9
R-TUNE	_	Last Channel	Last Channel	Drive Select
PROG-	_	Sub Channel	Music	PROG (Sub Channel)
—SKIP— I≺◀ ►>I	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	_
— SEARCH—	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward
REC	VCR Record	PVR Record *1	PVR Record *1	Record
STOP	Stop	Stop	Stop	Stop
PAUSE II/I>	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

■ Remote Control Code List

■ Remote (Control Code	List					
Cable Conve	erter (DBS/CBL						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
A-Mark	0008, 0144	Gibralter	0003	Penney	0000	Tocom	0012
ABC	0003, 0144	GMI	0883	Philips	0317, 1305	Torx	0003
Accuphase	0003, 0000, 0237	GoldStar	0144	Pioneer	0144, 0533, 0877.	Toshiba	0000
Accupitase	0237	Hamlin	0009, 0273	Floricei	1877	Tristar	0883
Action	0237	Hitachi	0003, 0273	Prism	0012	United Cable	0003
Active	0237	Insight	0476, 0810	Pulsar	0000	US Electronics	0003, 0276
Americast	0899	Jerrold	0003, 0012, 0276,	Quasar	0000	V2	0883
Archer	0237	Jenoid	0476, 0810	RadioShack	0883	Videoway	0000
BCC	0276	Memorex	0000	RCA	1256	Viewmaster	0883
Bell South	0899	Mitsubishi	0003	Regal	0273, 0276, 0279	Vision	0883
British Telecom	0003	Motorola	0276, 0476, 0810,	Runco	0000	Vortex View	0883
Century	0008	Wiotoroia	1254, 1376	Samsung	0003, 0144	Zenith	0000, 0525, 0899
Clearmaster	0883	Multitech	0883	Scientific Atlanta	0000, 0003, 0008,		10000, 0020, 0000
ClearMax	0883	Nova Vision	0008		0012, 0237, 0477,		
Cool Box	0883	Novaplex	0008	-	0877, 1877		
Coolmax	0883	NSC	0012	Sony	1006		
Director	0476	Pace	0008, 0237, 0877,	Sprucer	0144	Į.	
Fosgate	0276	1 400	1877	Starcom	0003		
GE	0144	Panasonic	0000, 0008, 0107,	Supercable	0276		
General	0003, 0012, 0276,	T dilaconic	0144	Supermax	0883		
Instrument	0476, 0810	Paragon	0000, 0008, 0525	Thomson	1256		
Cable/DVD C	DBS/CI	L	0000, 0000, 0020	momoon	1200		
Cable/PVR C	,						
Americast	0899	Motorola	0810, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
General	0810	Pace	0237, 1877	Sony	1006	1	
Instrument		Pioneer	0877, 1877	Supercable	0276		
Jerrold	0810	RCA	1256	Thomson	1256		
Satellite Rec	eiver (
Bell ExpressVu	0775	GE	0392, 0566	Motorola	0856, 0869	Samsung	1108, 1109, 1142,
Chaparral	0216	General	0869	Netsat	0099		1276, 1377, 1442,
Crossdigital	1109	Instrument		Next Level	0869	•	1609
DirecTV	0099, 0247, 0392,	GOI	0775, 1775	Optimus	0724	SKY	0856, 0099
	0566, 0639, 0724,	Hitachi	0749, 0819, 1250	Panasonic	0247, 0701, 1786	Sony	0639, 1639, 1640
	0749, 0819, 1076, 1108, 1109, 1142,	Houston	0775	Paysat	0724	Star Choice	0869
	1377, 1392, 1414,	HTS	0775, 1775	Philips	0099, 0722, 0724,	Star Trak	0869
	1442, 1609, 1639,), Hughes Network	0749, 1142, 1442,	Ţ ,	0749, 0775, 0819,	Thomson	0392, 0566
	1640, 1749, 1856	Systems	1749		1076, 1142, 1442, 1749	Tivo	1142, 1442
Dish Network	0775, 1005, 1505,	Innova	0099		1743	Toshiba	0749, 0790, 0819,
System	1775	Jerrold	0869	Pioneer	1142, 1442		1285, 1749
Dishpro	0775, 1005, 1505,	JVC	0775, 1775	Primestar	0869	UltimateTV	1392, 1640
	1775	LG	1414	Proscan	0392, 0566	Uniden	0724, 0722
Echostar	0775, 1005, 1505,	Magnavox	0722, 0724	RadioShack	0566, 0775, 0869	Voom	0869
	1775	McIntosh	0869	RCA	0392, 0566, 0775,	Zenith	0856, 1856
Expressvu	0775, 1775	Memorex	0724		1142, 1392, 1442		
Funai	1377	Mitsubishi	0749				
DBS/PVR Co	mbination (S) (BS/CHL)					
DirecTV	0099, 0392, 0639,	Dishpro	0775, 1505	Motorola	0869	Sony	0639, 1640
	1076, 1142, 1377,	Echostar	0775, 1505	Philips	1142, 1442	Star Choice	0869
	1392, 1442, 1640	Expressvu	0775	Proscan	0392	Ciai Ciloloc	10000
Dish Network	0775, 1505	Hughes Network	1142, 1442	RCA	1392		
System	0770, 1000	Systems	11112, 1112	Samsung	1442		
VCR (VCR)				- Carrie			
	0000 0007 0040	A - I	0040	0	0005 0004	Overtie Methodo	0000 0005 0000
A-Mark	0000, 0037, 0240, 0278	Asha	0240	Carver	0035, 0081	Curtis Mathes	0000, 0035, 0060, 0162, 0240, 0278,
A.D.O.		Astra	0035, 0240	CCE	0278		0432, 1035
Admiral	1972	Audiovox	0037, 0038, 0278	Cineral	0278	Cyharacy	
Admiral	0039, 0047, 0048, 0060, 0209, 0479	Avis	0000	Citizen	0000, 0035, 0037, 0209, 0240, 0278,	Cybernex	0240
Advantura		Beaumark			0479, 1278	CyberPower	1972
Adventura	0000, 0037, 0240	Bell & Howell	0000, 0035, 0039, 0048, 0479	Classic	· ·	Daewoo	0037, 0045, 0278, 1278
Aiwo	0278	Drokessis	1	Classic	0037	Doutran	
Alba	0000, 0037	Broksonic	0002, 0121, 0209, 0479, 1479	Colortyme	0035, 0045, 0060, 0278	Daytron	0037, 0278
Alianwara	0209, 0278	Coliv	•	Colt		Dell	1972
Allegre	1972	Calix Candle	0037	Croig	0000	Denon DirecTV	0042, 0081 0739
Allegro	0039		0037, 0038	Craig		DirecTV	
American High	0278	Canon	0035	Criterion	0000	Durahrand	0000
American High	0035, 0081	Carrera	0002	Crosley	0000, 0035, 0081	Durabrand	0038, 0039
Amstrad	0000	Carrera	0240	Crown	0278	Dynatech	0000, 0240

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

VCR (VCR)							
Brand	Code	Brand	Code	Brand	Code	Brand	Code
Electrohome	0000, 0037, 0043, 0060, 0209, 0240	Magnin Marantz	0240 0035, 0038, 0081	Quasar	0002, 0035, 0162, 1035	Thomson Tisonic	0060 0278
Electrophonic	0037	Marta	0037	RadioShack	0000, 0035, 0037,	Tivo	0618, 0636, 0739
Emerald	0121, 0184	Matsui	0037, 0209		0047, 0048, 0162,		1996
Emerex	0032	Matsushita	0035, 0162, 0081		0240	TMK	0000, 0240
Emerson	0000, 0002, 0037,	Media Center PC	1972	Radix	0037	TNIX	0037
	0043, 0121, 0184,	MEI	0035	Randex	0037	Tocom	0240
	0209, 0240, 0278, 0479, 1278, 1479	Memorex	0000, 0035, 0037, 0039, 0162, 0047,	RCA	0000, 0035, 0042, 0045, 0048, 0060,	Toshiba	0000, 0043, 0045 0209, 0240, 0845
Fisher	0000, 0039, 0047		0048, 0209, 0240, 0278, 0479, 1237		0240, 0807, 0880, 1035, 1060		1008, 1145, 1972 1996
Fuji	0033, 0035		0270, 0473, 1237		1000, 1000		
Fujitsu	0000	Metz	0037	Realistic	0000, 0035, 0037,	Tosonic	0278
Funai	0000, 0037, 0278	MGA	0043, 0060, 0240		0047, 0048, 0121, 0162, 0240, 0278	Totevision	0037, 0240
Garrard	0000	MGN Technology	0240		1 1	Touch	1972
Gateway	1972	Microsoft	1972	ReplayTV	0614, 0616	Trix	0037
GE	0000, 0035, 0048,	Midland	0240	Ricavision	1972	Ultra	0045, 0278
	0060, 0240, 0807, 1035, 1060	Mind	1972	Runco	0039	Unitech	0240
Occupied		Minolta	0042	Samsung	0000, 0038, 0045, 0060, 0240, 0432.	Vector	0045
Gemini	0060	Mitsubishi	0000, 0042, 0043, 0047, 0048, 0060,		0739, 1014	Vector Research	0038, 0184
Genexxa	0000, 0037, 0278		0067, 0807	0	<u> </u>	Victor	0067
Go Video	0240, 0432, 0614	Matauala		Samtron	0240	Video Concepts	0045
	0000, 0035, 0037, 0038, 0039, 0278,	Motorola	0035, 0048	Sanky	0039, 0048	Videomagic	0037
	1237	MTX	0000, 0240	Sansui	0000, 0002, 0067, 0209, 0240, 0479,	Videosonic Viewsonic	0000, 0240 1972
Goodmans 0000, 0037, 008	0000 0027 0091	Multitech	0000, 0039		1479	Villain	0000
Goodinans	0000, 0037, 0081, 0278	NAD	0240	Sanyo	0000, 0047, 0240,	Voodoo	1972
Gradiente	0000	NEC	0038, 0067	Janyo	0479	Wards	0000, 0060, 0033
Granada	0042, 0081	Nikko	0037, 0278	Scott	0043, 0045, 0184,	vvarus	0035, 0037, 0038
Grundig	0081	Nikkodo	0037, 0278	Coott	0121		0042, 0043, 0045
Harley Davidson	0000	Nishi	0240	Sears	0000, 0033, 0035,		0047, 0048, 0081
Harman/Kardon	0038, 0081	Niveus Media	1972	Ocaro	0037, 0039, 0042,		0240, 0479
Hewlett Packard	1972	Noblex	0240	-	0043, 0045, 0047,	White	0000, 0209, 0278
HI-Q	0000, 0035, 0047	Northgate	1972		0048, 0060, 0067, 0162, 0209, 1237	Westinghouse	0479
Hitachi	0000, 0035, 0037,	Olympus	0035, 0162		0102, 0209, 1237	World	0002, 0209, 0479
	0042, 0045, 0089		0000, 0035, 0037, 0047, 0048, 0162,	Sharp	0048, 0047, 0032,	XR-1000	0000, 0035, 0240
Howard	1972			·	0000, 0807	Yamaha	0038
Computers			0240, 0432, 1062	Shintom	0000, 0039, 0240	Zenith	0000, 0033, 0037
HP	1972	Orion	0000, 0002, 0121,	Shogun	0240		0039, 0209, 0278 0479, 1479
Hughes Network	0042, 0739		0184, 0209, 0240,	Siemens	0037		
Systems Humax	0739	Panama	0278, 0479, 1479	Signature	0000, 0035, 0037, 0048, 0060, 0479	ZT Group	1972
Hush	1972	Panasonic	0000, 0035, 0162,	Singer	0037, 0240		
Hytek	0000, 0047	Fanasonic	0225, 0614, 0616,	Sonic Blue	0614, 0616		
iBUYPOWER	1972		1035, 1062, 1244	Sony	0000, 0032, 0033,		
ITT Nokia	0240	Penney	0000, 0035, 0037,	Jony	0035, 0047, 0067,		
Janeil	0240	. omisy	0038, 0042, 0047,		0636, 1232, 1972		
Jensen	0067		0067, 0081, 0162,	Soundmaster	0000		
JVC	0067		0240, 1035, 1237	Stack 9	1972		
KEC	0037, 0278	Pentax	0042	STS	0042		
Kenwood	0038, 0067	Philco	0000, 0035, 0081,	SV2000	0000		
Kodak	0035, 0037		0209, 0479	SVA	0000		
KTV	0000	Philips	0000, 0035, 0048,	Sylvania	0000, 0035, 0043,		
LG	0037, 0038, 0240	•	0045, 0081, 0162,		0081, 1781		
Linksys	1972		0209, 0616, 0618, 0739	Symphonic	0000, 0002, 0240		
Lloyd's	0000, 0038, 0240		0100	Systemax	1972		
Loewe	0081	Pilot	0037	Tagar Systems	1972		
Logik	0000, 0240	Pioneer	0042, 0067, 0081,	Tandy	0000		
Lumatron	0278		0162	Tatung	0000, 0048, 0067,		
LXI	0000, 0037, 0042,	Polk Audio	0081		0081		
	0067	Portland	0278	Teac	0000, 0067		
M Electronic	0240	Profitronic	0240	Technics	0000, 0035, 0037,		
Magnasonic	0000, 0037, 0240,	Proscan	0060, 1060		0162		
	0278, 1278	Protec	0000	Teknika	0000, 0035, 0037		
Magnavox	0000, 0035, 0037,	Pulsar	0039, 0240, 0278	Telecorder	0240		
	0039, 0048, 0081, 0240, 0618, 1781	Pulser	0240	Tevion	0479		
		Quartz	0035, 0047	Thomas	0000, 0002		

Brand	nbination (V)(Code	Brand	Code	Brand	Code	Brand	Code
				Dialiu	Code	Dialiu	Code
Hughes Network Systems	0739	Philips	0739 0739				
DRS/CRI		Samsung	0739				
PVR (V) ()						_
ABS	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
Alienware	1972	Systems		Panasonic	0616	Tivo	0618, 0636, 073
CyberPower	1972	Humax	0739	Philips	0618, 0739	Toshiba	1008, 1972, 199
Dell	1972	Hush	1972	RCA	0880	Touch	1972
DirecTV	0739	iBUYPOWER	1972	ReplayTV	0614, 0616	Viewsonic	1972
Gateway	1972	Linksys	1972	Samsung	0739	Voodoo	1972
Hewlett Packard	1972	Media Center PC	1972	Sonic Blue	0614, 0616	ZT Group	1972
Howard	1972	Microsoft	1972	Sony	0636, 1972		
Computers		Mind	1972	Stack 9	1972	1	
HP DVO	1972	Niveus Media	1972	Systemax	1972		
DVD (🛗)							
3D LAB	0503, 0539	Funai	0675, 1268	Minato	0752	Samsung	0490, 0573, 074
Aiwa	0641	GE	0522, 0815	Mintek	0839		0820, 0899, 104
Akai	0695, 0899	Go Video	0573, 0741, 0744,	Mitsubishi	1521, 0521		1075
Alba	0672		0869, 1044, 1075	NAD	0591, 0741	Sansui	0695
Alco	0790	GoldStar	0741, 0869	NEC	0785, 0869	Sanyo	0675, 0695
Allegro	0869	Goodmans	0790	Onkyo	0503, 0627, 0792	Schwaiger	0752
Apex Digital	0533, 0672, 1020,	Gradiente	0490, 0651	Optimus	0571	Sharp	0630, 0675, 075
	1056, 1061	Grundig	0539	Oritron	0651	·	1256
Arrgo	1023	Harman/Kardon	0582	Palsonic	0672	Shinsonic	0533, 0839
Audiovox	0790	Hitachi	0573, 0664	Panasonic	0503, 0490, 0571,	Slim Art	0784
Blue Parade	0571	Hiteker	0672		0703, 1362, 1462,	Sonic Blue	0573, 0869
Blue Sky	0695	Insignia	1268		1490, 1762, 2006, 2016, 2026, 1779	Sony	0533, 0864, 103
Brandt	0651	Integra	0571, 0627		2010, 2020, 1779		1431, 1533
Broksonic	0695	JMB	0695	Philips	0503, 0539, 0646,	Sylvania	0675, 1268
California Audio	0490	JVC	0558, 0623, 0867,		0675, 1267, 1354	Symphonic	0675, 1268
Labs			1164	Pioneer	0525, 0571, 0631	Teac	0571, 0790
Celestial	1020	Kawasaki	0790	Polaroid	1020, 1061	Technics	0490, 0703
Centrex	0672	Kenwood	0490, 0534	Polk Audio	0539	Tevion	0651
CineVision	0869	KLH	0790, 1020	Presidian	0675	Theta Digital	0571
Clairtone	0571	Kloss	0533	Proceed	0672	Thomson	0522
Creative	0503, 0539	Koss	0651, 1061	Proscan	0522	Toshiba	0503, 0539, 057
CyberHome	0816, 0874, 1023,	Lasonic	0627	Qwestar	0651		0695, 1045, 115
	1129	Lecson	1533	Radionette	0741	Universum	0591
Daewoo	0784, 0869, 1172	LG	0591, 0741, 0869	RadioShack	0571	Urban Concepts	0503, 0539
Denon	0490, 0634	LiteOn	1058	RCA	0522, 0571, 0790,	US Logic	0839
Digitrex	0672	Loewe	0741		0822, 1022, 1132	Venturer	0790
Disney	0675	Magnasonic	0651, 0675	Realistic	0571	Xbox	0522
Dual	0675	Magnavox	0503, 0539, 0646,	Reoc	0752	Yamaha	0490, 0539, 054
DVD2000	0521		0675, 1268	Rio	0869	Zenith	0503, 0591, 074
Emerson	0591, 0675, 1268	Marantz	0503, 0539, 0675	Rotel	0623		0869
Enterprise	0591	McIntosh	1533	Saba	0651	Zeus	0784
Entivo	0503, 0539	Medion	0651	Sampo	0752		
ESA	1268	Memorex	0695				
Firstline	0651	Microsoft	0522				
DVD-Recorde	er (Y) (DVD)						
Apex Digital	1056	LG	0741	Pioneer	0631	Sylvania	0675
CyberHome	1129	Magnavox	0646, 0675	RCA	0522	Zenith	0741
-unai	0675	Panasonic	0490, 2006, 2016,	Samsung	0490	_01101	13111
Go Video	0741	. 3.1000.110	2026	Sharp	0675	ı	
JVC	1164	Philips	0646	Sony	1033, 1431		

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 39)

■ U.S. MOVIE RATINGS (MPAA)

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

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	ViewableBlocked	Not Rated.
Youth	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.)

	Е	Exempt - Exempt programming.
	Ð	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

52

- 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

Maintenance

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 neutral detergent (1 part detergent 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 detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma TV. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Pedestal

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 neutral detergent 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.)

Technical Information

Closed Caption (CC)

- For viewing Closed Caption of digital broadcasting, set the aspect ratio to FULL. (If viewing with H-FILL, JUST, ZOOM or 4:3, characters will be cut off.)
- The Closed Caption is not displayed when you use HDMI connection.
- If analog connected equipment is used for displaying or recording, Closed Caption (CC) should be set On/Off on the connected equipment.
- The CC mode setting of the TV will not affect the analog input.

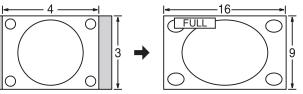
If a digital program is being output in analog format, the CC data will also be output in analog format.

If digital connected equipment is used for input, CC should be set On on either the connected equipment or the TV. If CC is set On on both the connected equipment and the TV, captions from each unit will overlap.

Aspect Ratio

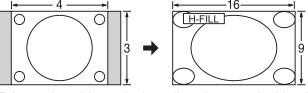
Lets you choose the aspect depending on the format of the received signal and your preference. (p. 21) (e.g.: in case of 4:3 image)

FULL



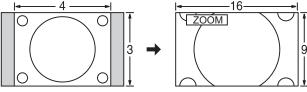
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

H-FILL



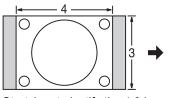
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

ZOOM



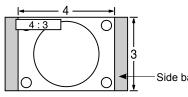
Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)

JUST



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

4:3



Standard

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

Note

- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9): FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p:
- FULL, H-FILL, JUST, 4:3 or ZOOM
- When the signal is 720p/1080i/1080p, the aspect mode automatically defaults to Full after turning off the TV. after changing input mode, or after changed signal resolution other than 720p/1080i/1080p.

Zoom adjust

54

- Vertical image position and size can be adjusted in "ZOOM".
- ①Select "Zoom adjust" on the "Picture" menu. (p. 32-33)
- ②V-position: Vertical position adjustment







③ V-size: Vertical size adjustment





To reset the aspect ratio



Photo:

Movie:

Note

• Format the card with the recording equipment.

A data modified with a PC may not be displayed.

Message

Is memory card in?

Cannot read file

Feature not available

No file

Do not use two-byte characters or other special codes.

Display may take some time when there are many files and folders.

Partly degraded files might be displayed at a reduced resolution.

http://panasonic.co.jp/pavc/global/cs (This site is in English only)

• Images imported from a PC must be compatible with EXIF 2.0, 2.1 and 2.2.

• The folder and file names may be different depending on the digital camera used.

• The card may become unusable with this TV if file or folder names are changed.

All ".JPG" extension datas in the card will be read in Photo View Mode.

Cannot display image due to incorrect ID data.

- There is a problem with your TV decoder.
 - If this message appears, please contact Panasonic Service Center for assistance. Refer to page 61, 63 (Limited Warranty), page 62 (Customer Services Directory)

Meaning

• The card has no data or this type of data is not supported.

Cannot display image on SD card.

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

Cautions in handling SD Card:

GalleryPlayer warning messages

Data format for SD Card browsing

SD Card warning messages

The card is not inserted.

• The file is broken or unreadable.

Your operation is not available.

The TV does not support the format.

Max. number of files - 9,999 \ Image resolution - 160 x 120 to 10.000.000

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

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

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

The picture may not appear correctly on this TV depending on the recording equipment used.

This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).

For the suitable SD Memory Cards, please confirm the latest information on the following website.

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

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

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

** EXIF (Exchangeable Image File Format)

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

DIGITAL AUDIO OUT terminals

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

Caution

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

Technical Information (Continued)

EZ Sync™ "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 36)

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

HDMI connection

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

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

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in". "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 32) 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".
- This HDMI connector is "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see p. 57.

Picture mode

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

Provides high-quality gradation and color tone picture for a cinema-like feel. Studio ref:

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

Photo is displayed in JPEG menu.

Pro setting

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

Panel brightness: Selects the display panel brightness.

(High: Vivid, Mid: Standard, Low: Studio ref) Contour emphasis: Adjusts the contour emphasis of the image. (On/Off)

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

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

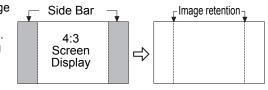
AGC: Increases the brightness of dark signal automatically. (On/Off)

Side Bar

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

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

 The side bar may flash (alternate black/white) depending on the picture. Using Studio ref mode will reduce such flashing (See p. 56).



Split - Screen

- TV screen (RF input) cannot be displayed in both main and split frame simultaneously.
- The Split-screen feature is not available when using PC and SD Card viewing mode as a source. HDMI input cannot be displayed in Split frame.

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		*	
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			*
352 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
300 × 600 @85	53.67	85.08			*
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00			*

Note

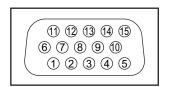
- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

PC Input Terminals Connection

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.
- The maximum resolution: 1.280 × 1.024

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

Signal Names for D-sub 15P Connector



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

Pin Layout for PC Input Terminal

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 62, 63)

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

www.panasonic.ca





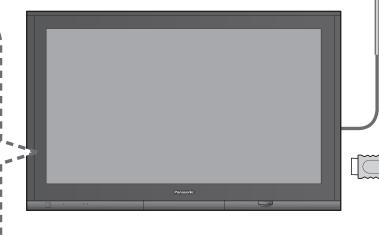


Check the position, direction, and connection of the aerial.

Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 41). If the signal is weak, check the antenna and consult your local dealer.





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

- Is the HDMI cable connected properly? (p. 46-47)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment.
- Use equipment compliant with EIA/CEA-861/861B.

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the battery run down?
- To operate external equipment of other manufacturers, register the remote control codes. (p. 45)

Problem

Actions

"Press any key to return" moves on the screen

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

One spot remains dark

- A pixel or luminescent spot can occasionally be missing in plasma displays. (Not a faulty symptom)
- Chaotic image, noisy
- Check nearby electrical products (car, motorcycle, fluorescent lamp).

No image can be displayed

Check Picture menu (p. 32)

Only spots are displayed instead of images

- Check the channel settings. (p. 40)
- Check the antenna cables.

Neither image nor sound is produced

- Is the AC power cord plugged into the outlet?
- Is the TV unit turned On?
- Check Picture menu (p. 32) and volume. • Are the remote control codes correct? (p. 49-51)

Black Box appears

Change settings of Closed Caption (CC). (p. 42)

No sound is produced

- Are the speakers' cables connected correctly? (p. 46) Is "Sound Mute" active? (p. 17)
- Is the volume set to the minimum?
- Is "Speaker output" set to "Off"? (p. 32)
- Change "SAP" settings. (p. 21)
- Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 32)

Sound is unusual

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

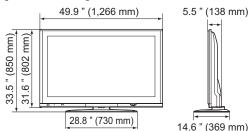
Whirling sound is heard

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

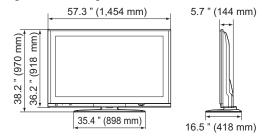
Specifications

		TH-50PZ750U	TH-58PZ750U		
Power Source		AC 120 V, 60 Hz	111 031 21 000		
	Maximum	705 W	745 W		
Power Consumption	Standby condition	0.2 W	0.2 W		
Plasma Display	Drive method	AC type			
	Aspect Ratio	16:9			
	Visible screen size	50 " (Diagonal)	58 " (Diagonal)		
D	(W × H × Diagonal)	43.5 " × 24.4 " × 49.9 "	50.5 " × 28.4 " × 58.0 "		
panel	(No. of pixels)	(1,106 mm × 622 mm × 1,269 mm) 2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]	(1,284 mm × 723 mm × 1,474 mm)		
Sound	Audio Output	Super Slim SP (2.5 W) × 2, Woofer (13 W) × 2			
PC signals		VGA, SVGA, XGA, WXGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz			
	nnel Capability ital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135			
Ope	rating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)			
	INPUT 1-3	AUDIO L-R: RCA PIN Type × 2 0.5 V [rm	[p-p] (75 Ω)		
Conn	COMPONENT VIDEO INPUT 1-2	Y: 1.0 V [p-p] (including synchron PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rm	•		
ect	HDMI 1-3	TYPE A Connector × 3	-		
g	AUDIO IN	This TV supports "HDAVI Control 2" function. AUDIO L-R: RCA PIN Type × 2 0.5 V [rm	asl		
Connection Terminals	PC	D-SUB 15PIN: R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO L-R: Stereo Mini Jack (Φ3.5 mm) × 1			
a S	Card slot	SD CARD slot × 1			
	AV PROG. OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]			
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic			
FEA	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip Split-Screen BBE VIVA 3 Photo viewer Movie player HDAVI Con			
Dimen (W×F	Including pedestal	49.9 " × 33.5 " × 14.6 " (1,266 mm × 850 mm × 369 mm)	57.3 " × 38.2 " × 16.5 " (1,454 mm × 970 mm × 418 mm)		
Dimensions (W×H×D)	TV Set only	49.9 " × 31.6 " × 5.5 " (1,266 mm × 802 mm × 138 mm)	57.3 " × 36.2 " × 5.7 " (1,454 mm × 918 mm × 144 mm)		
	Including pedestal	123.5 lb. (56 kg)	165.4 lb. (75 kg)		
Mass	TV Set only	105.9 lb. (48 kg)	141.1 lb. (64 kg)		
			1 1 1 1 1 1 (O T Ng)		

[TH-50PZ750U]



[TH-58PZ750U]



Note

60

Limited Warranty (for U.S.A.)

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

Panasonic Color Television Limited Warranty

Limited Warranty Coverage

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

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

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

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

In-Home or Carry-in Service

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

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

Limited Warranty Limits And Exclusions

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

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

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

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

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

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

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

Customer Services Directory

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

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

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

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

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

Accessory Purchases

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

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent, WA 98032

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

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

Service in Puerto Rico

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

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

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

Plasma TV / Monitor	In-home service	One (1) year, parts (including Plasma Panel) and labour.
LCD TV (26 in & over)	In-home service	One (1) year, parts (including LCD Panel) and labour.
LCD TV (25 in & under)	Carry-in service only	One (1) year, parts (including LCD Panel) and labour.

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

LIMITATIONS AND EXCLUSIONS

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

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

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

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505

1-800 #: 1-800-561-5505 Fax #: (905) 238-2360

Email link: "Customer support" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:
Link: "Servicentres™ locator" under "Customer support"

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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