This product has a fluorescent lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: http://www.eiae.org.

Este producto tiene una lámpara fluorescente que contiene mercurio. Debido a consideraciones ambientales, puede que deshacerse de este material esté regulado en su comunidad. Para obtener información sobre cómo deshacerse o reciclar este material, póngase en contacto con las autoridades de su localidad o con Electronics Industries Alliance: http://www.eiae.org.



Customer's Record

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

Model Number

Serial Number

Anotación del cliente

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

Modelo

Número de serie

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

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

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



English

HOMI

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.



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Operating Instructions 37" Class 1080p LCD HDTV (37.0 inches measured diagonally) Manual de instrucciones Television de alta definición de 1080p y clase 37" de LCD (37,0 pulgadas medidas diagonalmente)

Model No. Número de modelo **TC-37LZ85**





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.

TQB2AA0775-1

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





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Please read before using the unit

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Quick Start Guide

Viewing

Advanced

FAQs, etc.

Safety Precautions



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

Note to CATV System Installer

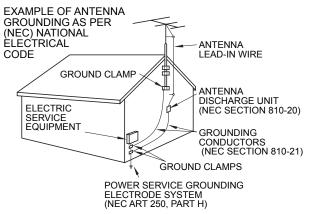
This reminder is provided to direct the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Secure Ventilation

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the LCD TV and to protect it from overheating. These openings must not be blocked or covered. There should be at least 10 cm of space from these openings. The openings should never be blocked by placing the LCD TV on a bed, sofa, rug or other similar surface. This LCD TV should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company.
- 16) Follow all warnings and instructions marked on the LCD TV.
- 17) Never push objects of any kind into this LCD TV through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the LCD TV.
- 18) If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- keep from touching such power lines or circuits as contact with them might be fatal.
- a. When the power cord or plug is damaged or frayed. If liquid has been spilled into the LCD TV. b.
- If the LCD TV has been exposed to rain or water. C.
- If the LCD TV does not operate normally by following the operating instructions. d. TV to normal operation.
- If the LCD TV has been dropped or the cabinet has been damaged. e.
- When the LCD TV exhibits a distinct change in performance this indicates a need for service. f.
- MOISTURE, DRIPPING OR SPLASHING. (INCLUDING ON SHELVES ABOVE, ETC.).
- 23) WARNING: SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN. **CREATING THE POTENTIAL RISK OF SUFFOCATION.** 24) CAUTION: UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE. USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY. 25) CAUTION:
- 26) CAUTION: OR EQUIVALENT TYPE.
 - accessories may cause instability which could result in the possibility of injury. • Wall-hanging bracket (Vertical): TY-WK32LR2W
 - Always be sure to ask a gualified technician to carry out set-up.

NOTE: This equipment is designed to operate in North America and other countries where the broadcasting system and AC house current are exactly the same as in North America.

This equipment has been tested and found to comply with the limits for a TV Broadcast Receiver, 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 or receive interference, which can be determined by turning 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 TV antenna.

Increase the separation between TV and other equipment. Connect TV into separate outlet from other equipment. Consult the dealer or an experienced radio / TV technician for help.

FCC Caution: user's authority to operate this equipment.

4

are in the papers with the

appliance.

The lightning flash with

arrowhead within a triangle

s intended to tell the user that parts inside the product are a risk of electric shock o persons. The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions

19) An outside antenna system should not be located in the vicinity of overhead power lines, other electric light, power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to

20) Unplug this LCD TV from the wall outlet and refer servicing to gualified service personnel under the following conditions:

Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a gualified technician to restore the LCD

21) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards. 22) WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN,

DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET

DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME

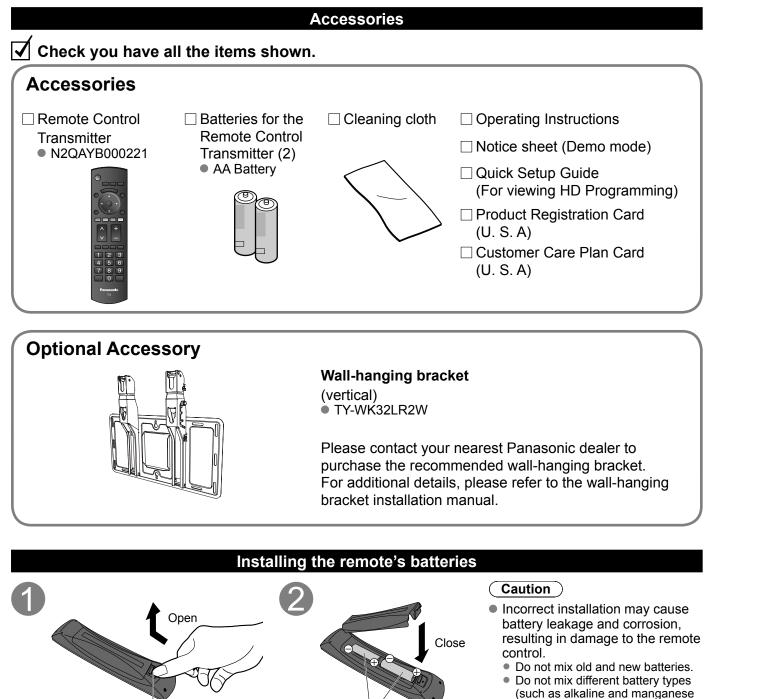
27) CAUTION: This LCD TV is for use only with the following optional accessory. Use with any other type of optional

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

FCC STATEMENT

Any changes or modifications not expressly approved by the party responsible for compliance could void the

Accessories/Optional Accessory



- batteries). Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.

Location

Note the correct polarity

Place the TV at a comfortable distance for viewing. Avoid placing it where sunlight or other bright light (including reflections) will fall on the screen.

(+ or -).

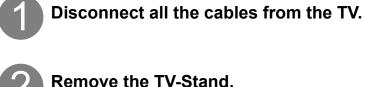
Use of some types of fluorescent lighting can reduce remote control transmitter range.

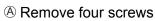
Hook

Adequate ventilation is essential to prevent an internal component failure. Keep away from areas of excessive heat or moisture.

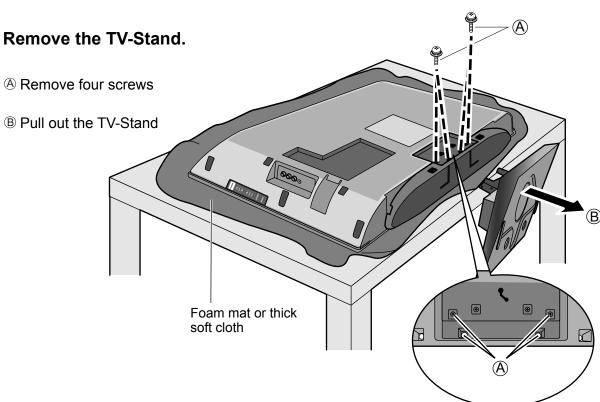
Preparation for Wall-hanging

Before mounting the TV on the wall, you must remove the TV-Stand from the TV. Follow the steps below:





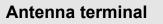
[®] Pull out the TV-Stand



WARNING

- Any damage resulting from not having a professional installer mount the unit will void your unit's warranty.
- Always be sure to ask a qualified technician to carry out set-up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- which typically give off high heat. Doing so may warp or damage plastic cabinet parts.

Reference of connection



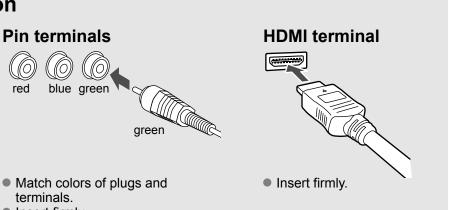


Firmly tighten by hand.

terminals. Insert firmly.

• Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer.

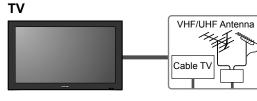
Do not mount this LCD Television directly below ceiling lights (such as spotlights, floodlights, or halogen lights)



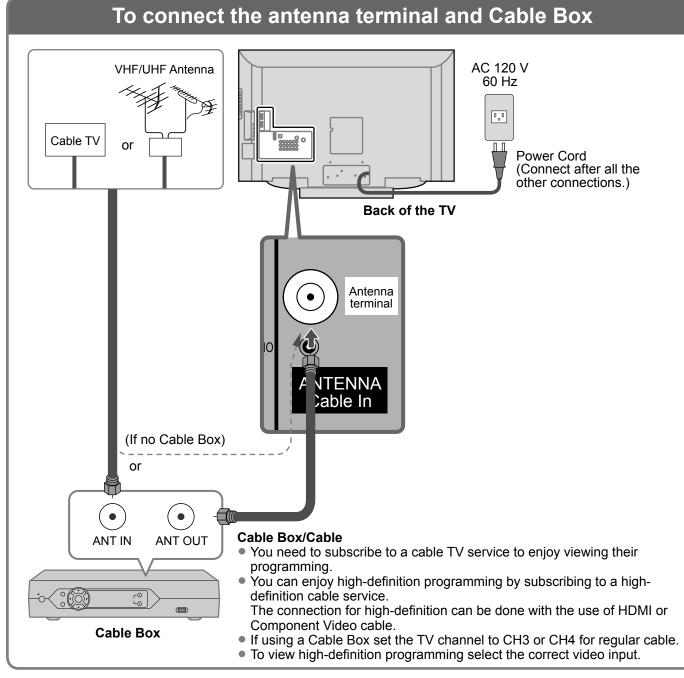
Basic Connection

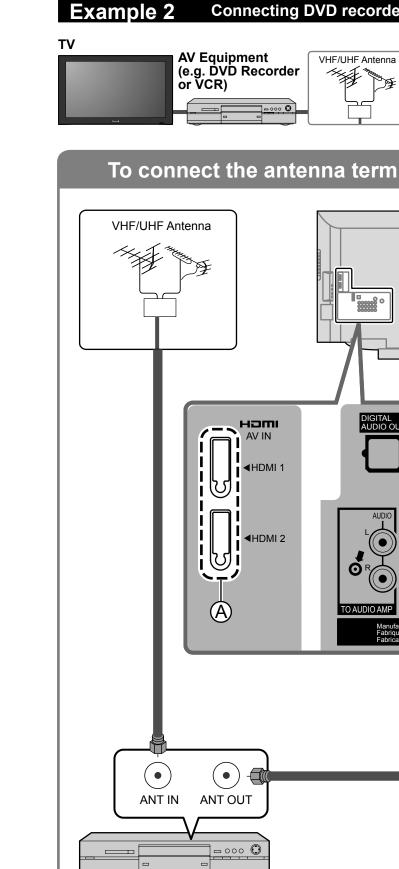
Example 1 Connecting Antenna (To watch TV)

VHF/UHF Antenna



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





AV Equipment

(e.g. DVD Recorder or VCR)

(with TV tuner)

(Note)

- All cables and external equipment shown in this book are not supplied with the TV.
- For the details of the external equipment's connections, please refer to the operating manuals for the equipment.
- For additional assistance, visit us at: www.panasonic.com

www.panasonic.ca

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

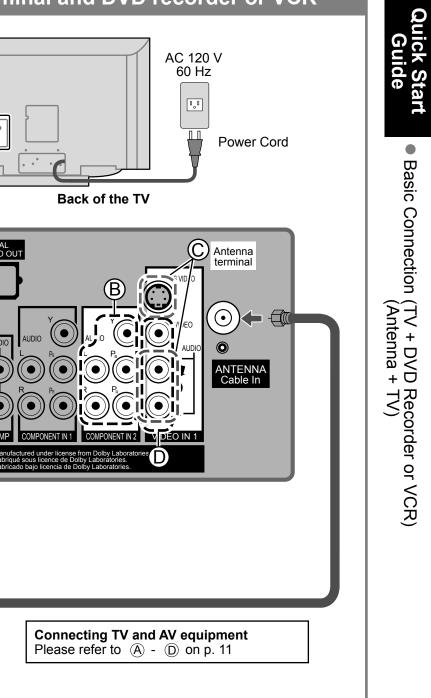


DVD Recorder

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

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

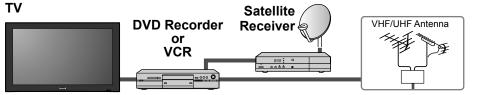
To connect the antenna terminal and DVD recorder or VCR



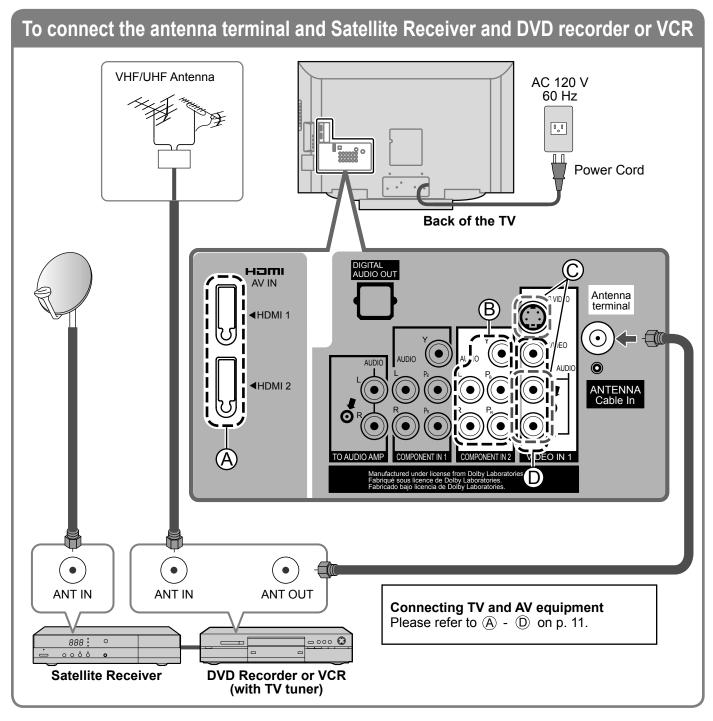
Basic Connection (Continued)

Example 3

Connecting DVD recorder (VCR) and satellite receiver

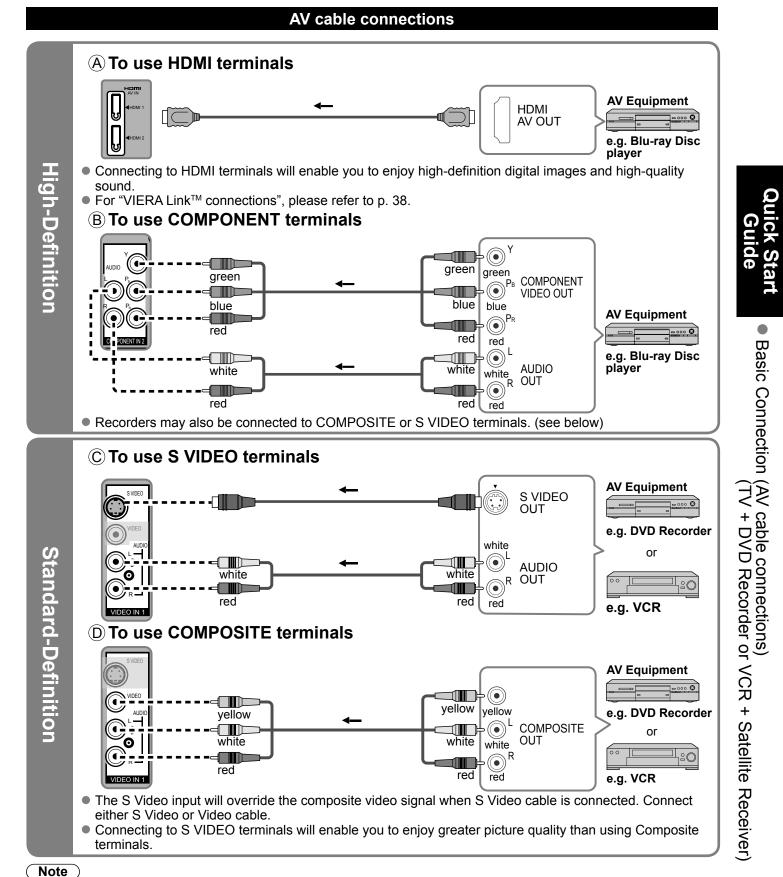


You can enjoy high-definition programming by subscribing to high-definition satellite service. Connection can be done with the use of HDMI or Component Video cable.





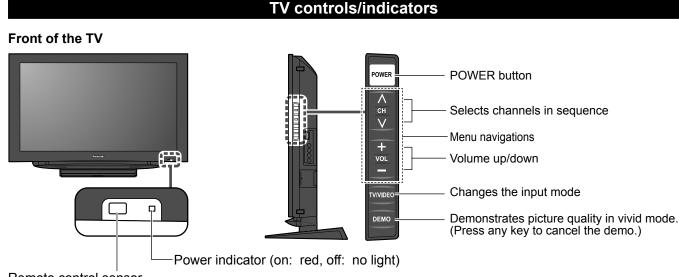
For details of external equipment connections, please refer to the operating manuals for the equipment.



- Some programs contain a copyright protection signal to prevent recording.

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

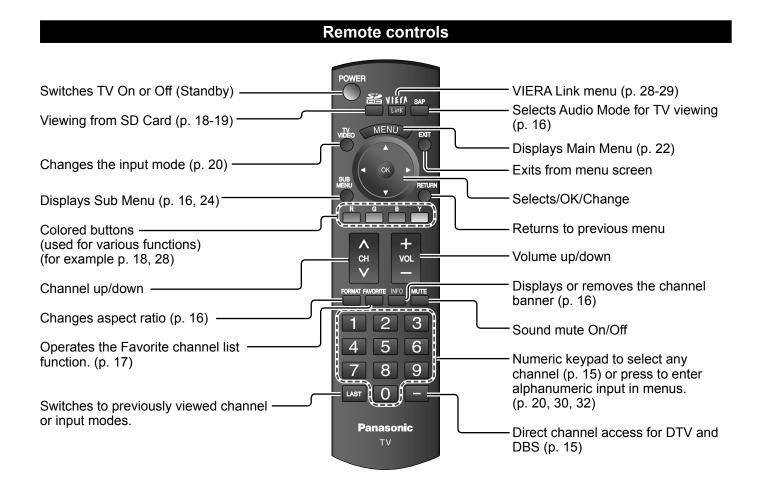
Identifying Controls



Remote control sensor Within about 23 feet (7 meters) in front of the TV set.

Note

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



First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 24-25) is set to "No".

Or	1	Turn the	or
		 Home This sett If you se In case y set to "H 	ing will be lect "Store ome" nex
 Press to exit from a menu screen EXIT Press to return to the previous screen RETURN Note To change setting (Language/Clock/ Auto program) later, go to Menu screen (p. 24) 	2	 This sele Select ye First time Language Clock Auto progra English ↔ E RETURN Adjust th First time Language Clock Auto progra 	ection scre Dur lan setup am English Español ↔ F — Go bac ne cloc setup am
		RETURN	- Co ba

n with the POWER button



R (Remote)

elect "Home" (Normal display mode)

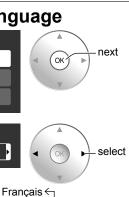


nselect OK)

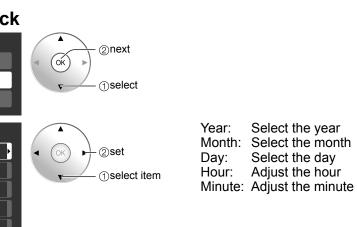
e skipped next time.

re", "First time setup" will not be displayed. t "Store" by mistake, unplug the TV and plug it again. Then, xt time.

reen is displayed when "Store" is selected.



ck to previous screen.

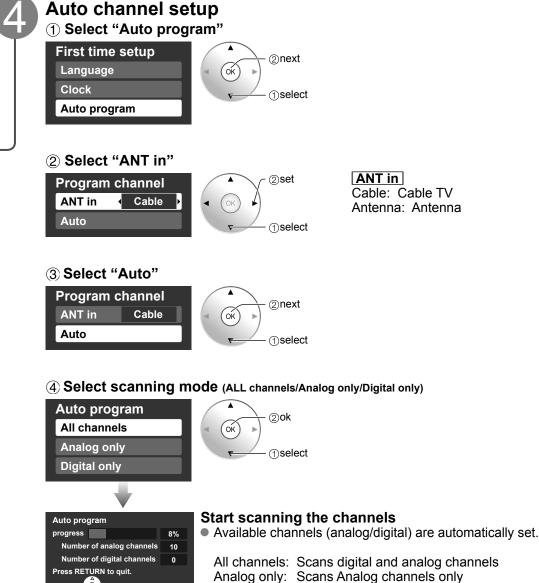


Go back to previous screen.

First Time Setup (Continued)



■ Press to exit from a menu screen EXIT



(5) Confirm registered channels



→ select "Apply" ⊘**ok**

Digital only: Scans Digital channels only

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

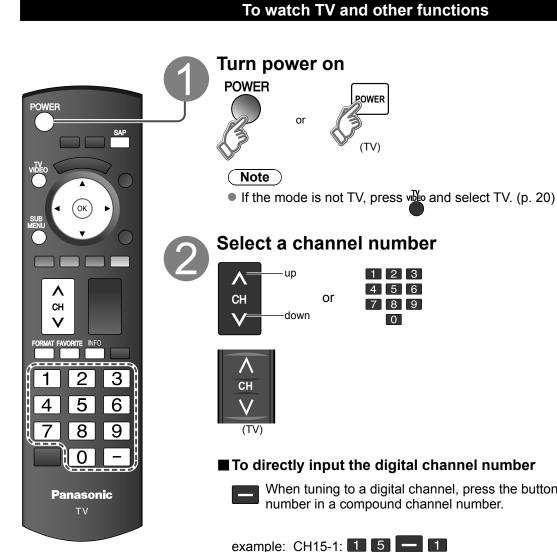
(Note)

About broadcasting systems

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

Watching TV

Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 8-11)



Note

- and antenna. (p. 14, 33)
- The channel number and volume level remain the same even after the TV is turned off.

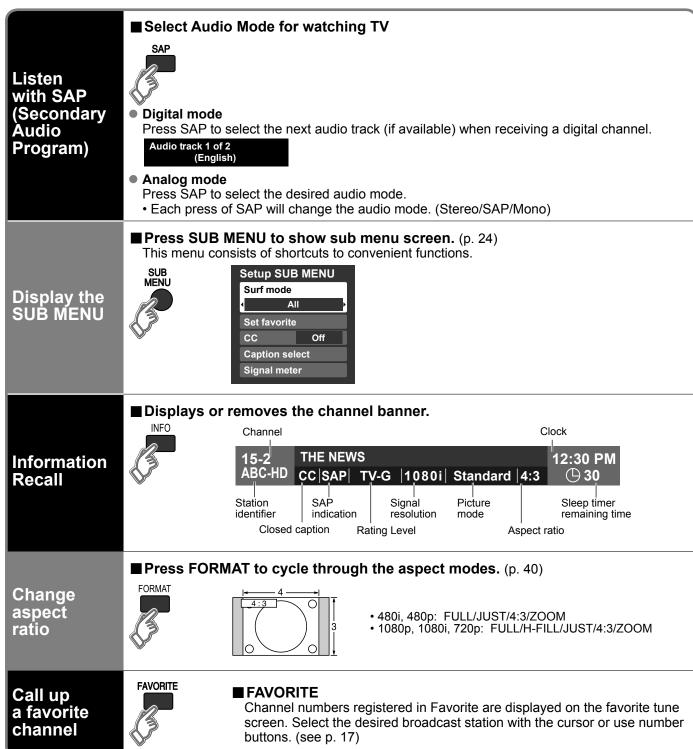
1	2	3
4	5	6
7	8	9
	0	

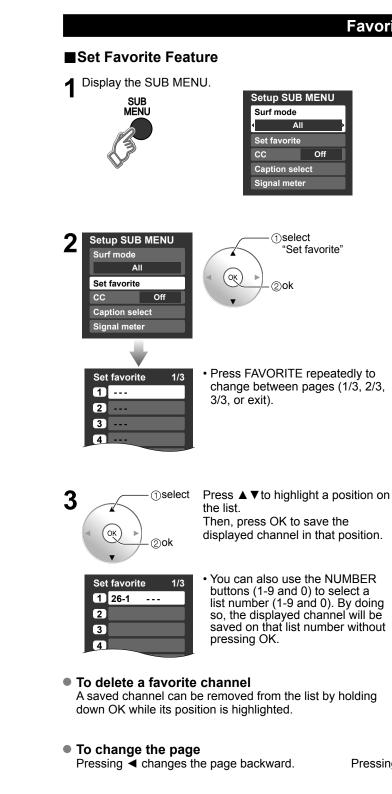
When tuning to a digital channel, press the button to enter the minor

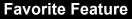
Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV

Watching TV (Continued)

■ Other Useful Functions (Operate after ②)







■Use Favorite Feature





Press $\blacktriangle \lor$ or a Numbered key (1-9 and 0) to highlight a channel on the

Press FAVORITE repeatedly to

change between pages (1/3, 2/3,

Press FAVORITE.

3/3, or exit).

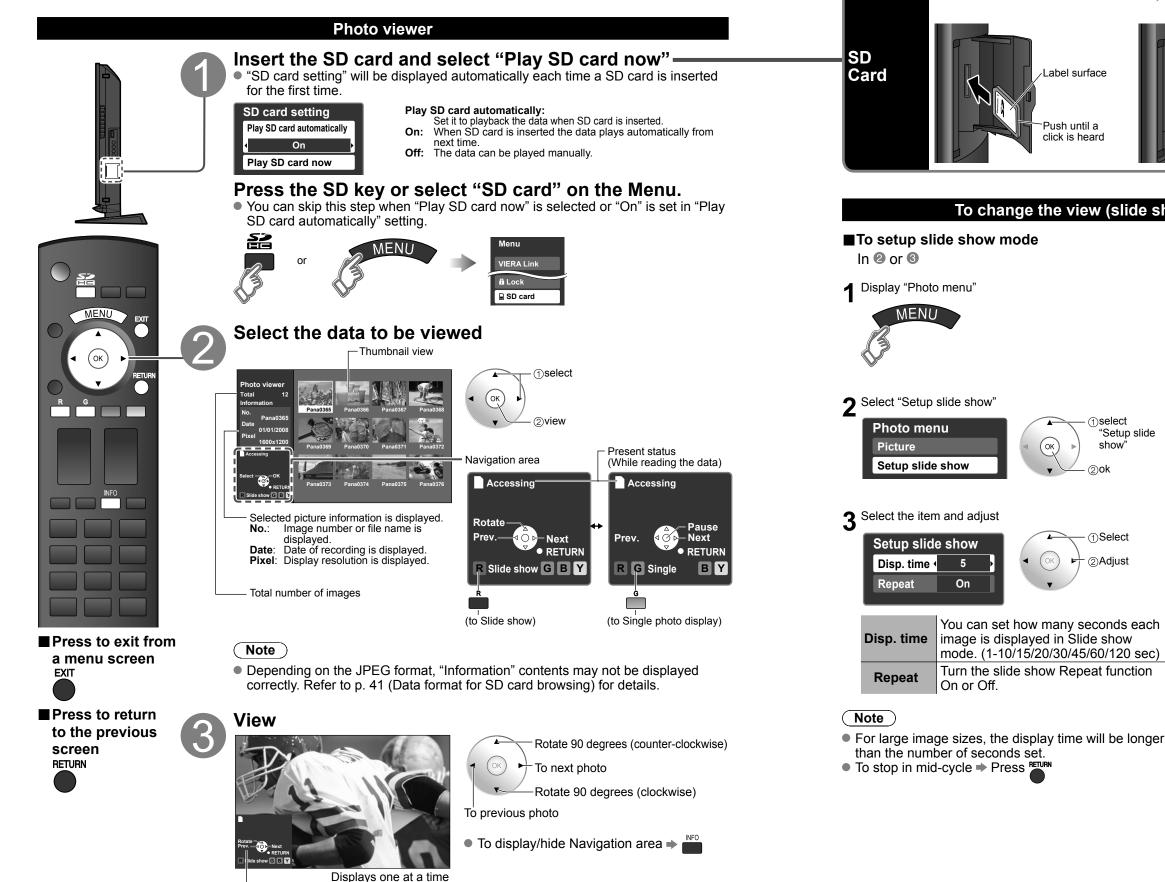
Ist.
Selecting a channel number from the list with the number button will display the channel directly.

Press OK to display the highlighted channel.

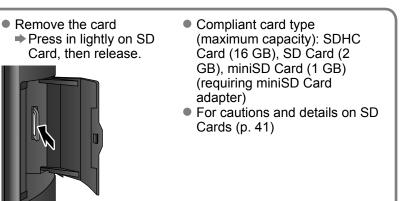
Pressing \blacktriangleright changes the page forward.

Viewing from SD Card

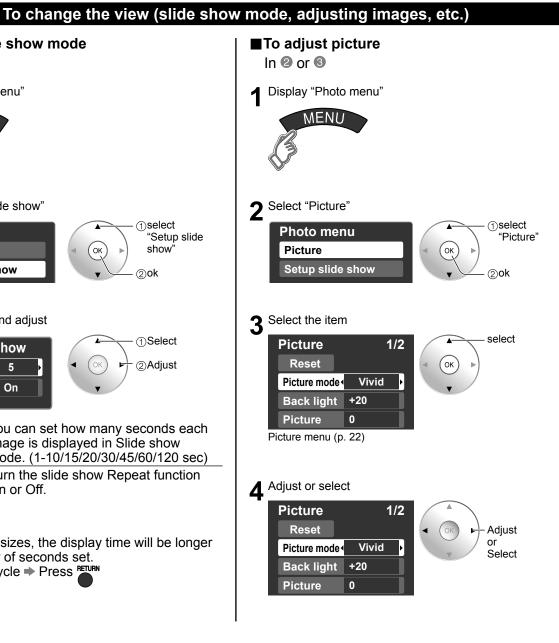
You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)



Navigation area



Insert the card



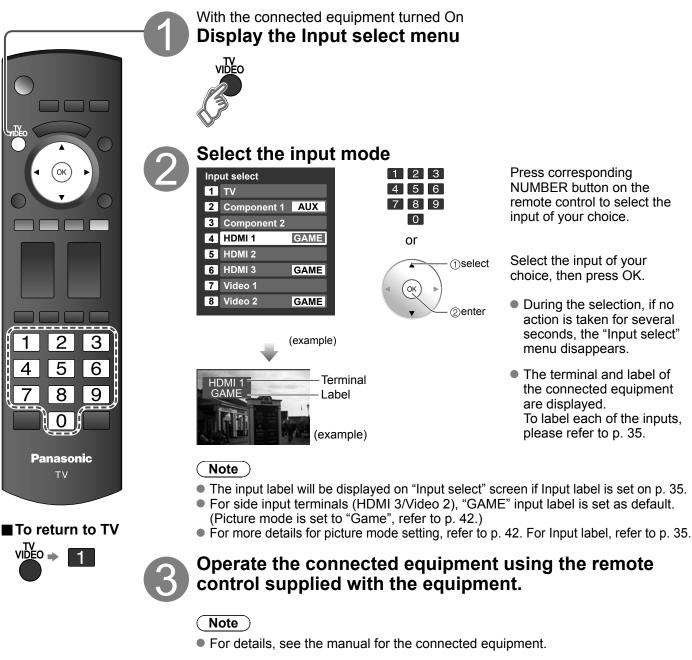
Viewing

Watching Videos and DVDs

If you have applicable equipment connected to the TV, you can watch videos and DVDs on the TV's screen.

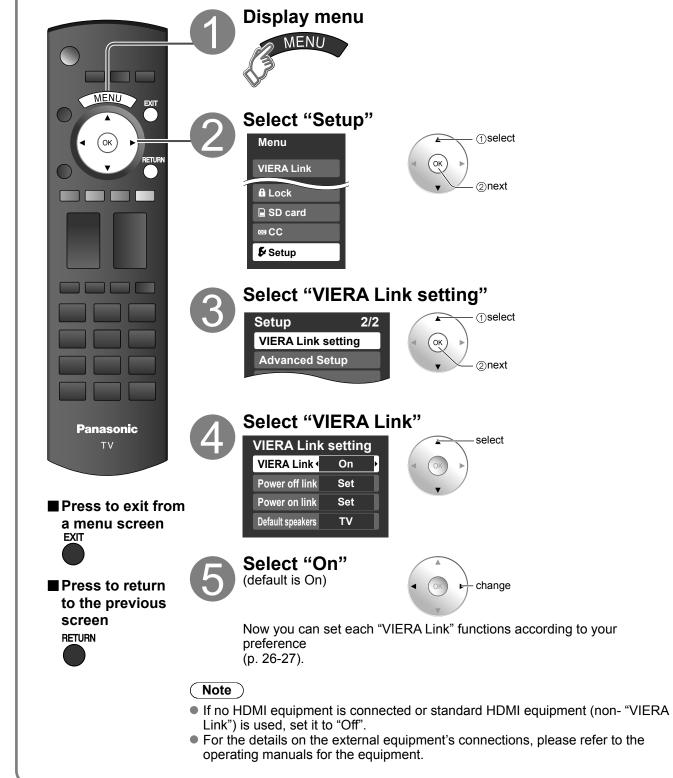
Input Select

You can select the external equipment to access.



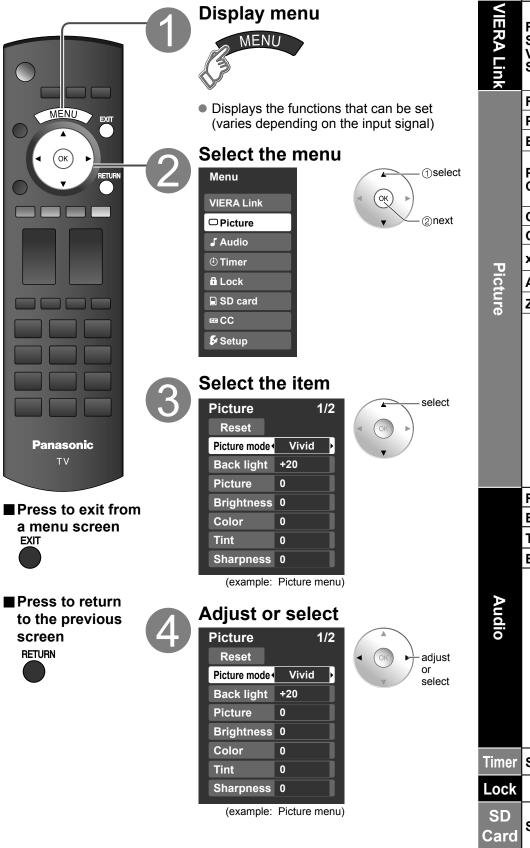
VIERA Link[™] Setting

If you connect equipment that has "HDAVI Control" function to a TV with HDMI cable, you can use more convenient functions. Please refer to p. 26-29. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



How to Use Menu Functions

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



Menu		ltem	
VIERA Link	Stop VIER	ord now recording A Link control aker output	
	Rese	ət	
	Pictu	ure mode	
	Back	c light	
		ıre, Brightness, r, Tint, Sharpness	
	Colo	r temp.	
	Colo	r mgmt.	
τ	x.v.C	olor	
lict	Al pi	cture	
Picture	Zoor	n adjust	
		Video NR	
	₽	3D Y/C filter	
	Advanced picture	Color matrix	
	ed	MPEG NR	
	Dict	Black level	
	ure	HD size	
	Rese	et in the second s	
	Bass	5	
	Treb	le	
	Bala	nce	
		Al sound	
Au	⊳	Surround	
Idio	Advanced audio	Bass boost	
	nce	Audio leveler	
	d au	Speaker output	
	udio	HDMI 1 in HDMI 2 in HDMI 3 in	
	Slee	p, Timer 1-5	
Timer			
Timer Lock			
	SD c	ard	

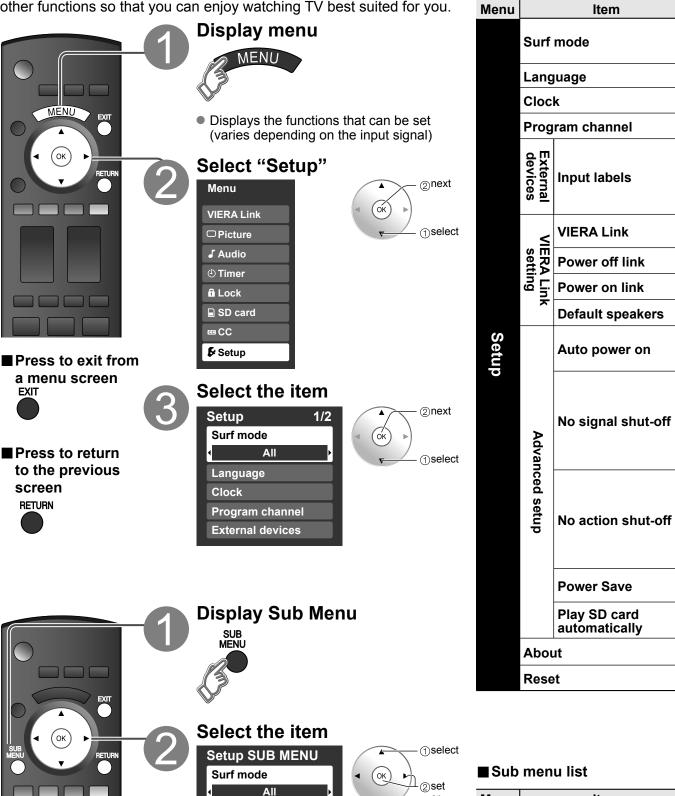
		Adjustme	nts/Configura	tions (alterna	atives)			
Records p [VIERA Li Selects eq [Speaker Selects an	ow/Stop recording] rograms on the recorder in nk control] uipment to access and op output] audio output. (Home the ink menu is accessible direct	erate. (Record	er/Home theate	er/Player/Camc	order) (p.28			
						Link (p. 28)		-
	picture adjustments to fac	-	•	•	ure".		Reset	
•	ure mode (Vivid/Standard	I/Cinema/Game	e/Custom) (p. 4	2)			Picture mod	e
•	minance of the back light.						Back light	+
Adjusts co Display	lor, brightness, etc. for ear	ch picture mode	e to suit your tas	te	Picture	+20	Tint	0
Picture Tint:	/Brightness/Color/Sharp	ness: 0 - 100 -50 - +			Brightness Color	0	Sharpness	0
Selects a	choice of Cool(blue), Norn	nal, or Warm(re	d) color. (Cool/I	lormal/Warm)			Color temp.	
On: Enha	nces green and blue color	reproduction, e	especially outdo	or scenes. (On/	Off)		Color mgmt	
	vide the appropriate pictur it of this TV. (Off/Auto)	e when images	corresponding	to "x.v.Color" an	e input via th	e HDMI	x.v.Color	
Controls d	ark areas without affecting	g the black leve	l or brightness ir	the overall pict	ture (On/Off))	Al picture	
Adjusts ve	rtical alignment and size v	when aspect set	tting is "ZOOM"	(p. 40)			Zoom adjust	t
Reduces r	noise, commonly called sn	ow. Leave it off	when receiving	a strong signal.	. (Off/On)		Video NR	
Minimizes	noise and cross-color in t	he picture. (On	/Off)				3D Y/C filter	
• SD: Sta	age resolution of compone andard Definition HD: 0p signal accepted; regula	High Definition	•)			Color matrix	(
Reduces r	noise of specific digital sig	nals of DVD, S1	ГВ, etc. (On/Off	1			MPEG NR	
Selects Da	ark or Light. Valid only for	external input s	ignals. (Dark/Li	ght)			Black level	
 Select "Size 1:3 	ween 95 % (Size 1) or 100 % ze 1" if noise is generated Selected item for "HD size Selected item for "HD size	on the edges o ". Scanning 95°	f the screen. %	h High-definition	signal. (Size '	1/ Size 2)	HD size	
Resets Ba	ss, Treble and Balance ac	djustments to fa	ctory default set	tings.			Reset]
Increases	or decreases the bass res	sponse.					Bass	0
Increases	or decreases the treble re	sponse.					Treble	0
Emphasiz	es the left / right speaker v	volume.					Balance	(
Equalizes	overall volume levels acro	oss all channels	and external in	outs. (On/Off)			Al sound	
	audio response when liste und sound feature does no			ones.			Surround	
	bass sound and provides ting will not function if "off						Bass boost	
Minimizes	volume disparity after swi	tching to extern	al inputs				Audio levele	er (
	ʻOff" when using external s nd", "Surround", and "Audi			selected			Speaker output	ut
Select auc	It setting is "Digital" for HD lio input terminal when DV omponent 1/Component	/I cable is conner	ected. (Analog a	gnal) udio input signa	al)		HDMI1 in HDMI2 in HDMI3 in	
The TV ca	n automatically turn On/O	ff at the designation	ated date and tir	ne (p. 36)			Sleep	
Locks the	channels and programs (p	o. 30)						
Displays S	D card data (p. 18-19)						SD card	
Displays s	ubtitles (Closed Caption)	(p. 34)					CC	
In AV m	node, the Audio menu a	nd Setun men	u aive fewer o	ptions				

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

How to Use Menu Functions

Menu list

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



Set favorite

Caption select Signal meter

Off

СС

(Continued)

Adjustments/Config
Sets the mode to select the channel with Channel up/down but (All/Favorite/Digital Only/Analog only) • Favorite: Only channels registered as FAVORITE (p. 17)
Selects the screen menu language (p. 13)
Adjusts the clock (p. 13)
Sets channels (p. 32)
Selects the terminal and label of the external equipment (p. 35
Controls equipment connected to HDMI terminals (p. 26) (On/0 • "Power off link", "Power on link", and "Default speakers" car
Sets "Power off link" of HDMI connection equipment (p. 26) (Set
Sets "Power on link" of HDMI connection equipment (p. 26) (S
Selects the default speakers (p. 26) (TV/Theater)
 Turns TV On automatically when the cable box or a connected The "Sleep" timer, "On / Off timer", and "First time setup" will (p. 36)
 To conserve energy, the TV automatically turns off when NO S for more than 10 minutes. (Set/No) Note Not in use when setting "Auto power on", "On/Off Timer", "Lo "No signal shut-off was activated" will be displayed for about the first time after turning the power off by "No signal shut-of The on-screen display will flash 3, 2 and 1 to indicate the last three
To conserve energy, the TV automatically turns off when no op continues for more than 3 hours. (No/Set) Note
 Not in use when setting "Auto power on" or "On/Off Timer". "No action shut-off was activated" will be displayed for about the first time after turning the power off by "No action shut of The on-screen display will flash 3, 2 and 1 to indicate the last three
Reduces screen brightness to lower power consumption. Eye- (Standard/Saving)
Set "On" you to play back SD cards automatically. (On/Off)
Displays TV version and software license.
Performing Reset will clear all items set with Setup, such as ch

Menu	ltem	
S	Surf mode	
SUB	Set favorite	
St	CC	
etup 3 MENU	Caption select	
C	Signal meter	

or next

Adjustments/Config
Sets the mode to select the channel with Channel up/down butto
Sets favorite channels. (p. 17)
Displays Closed Caption. (p. 34) (Off/On)
Changes the station identifier. (p. 33)
Checks the signal strength if interference or freezing occurs on

gurations (alternatives)	
itton	Surf mode All
	Language
	Clock
	Program channel

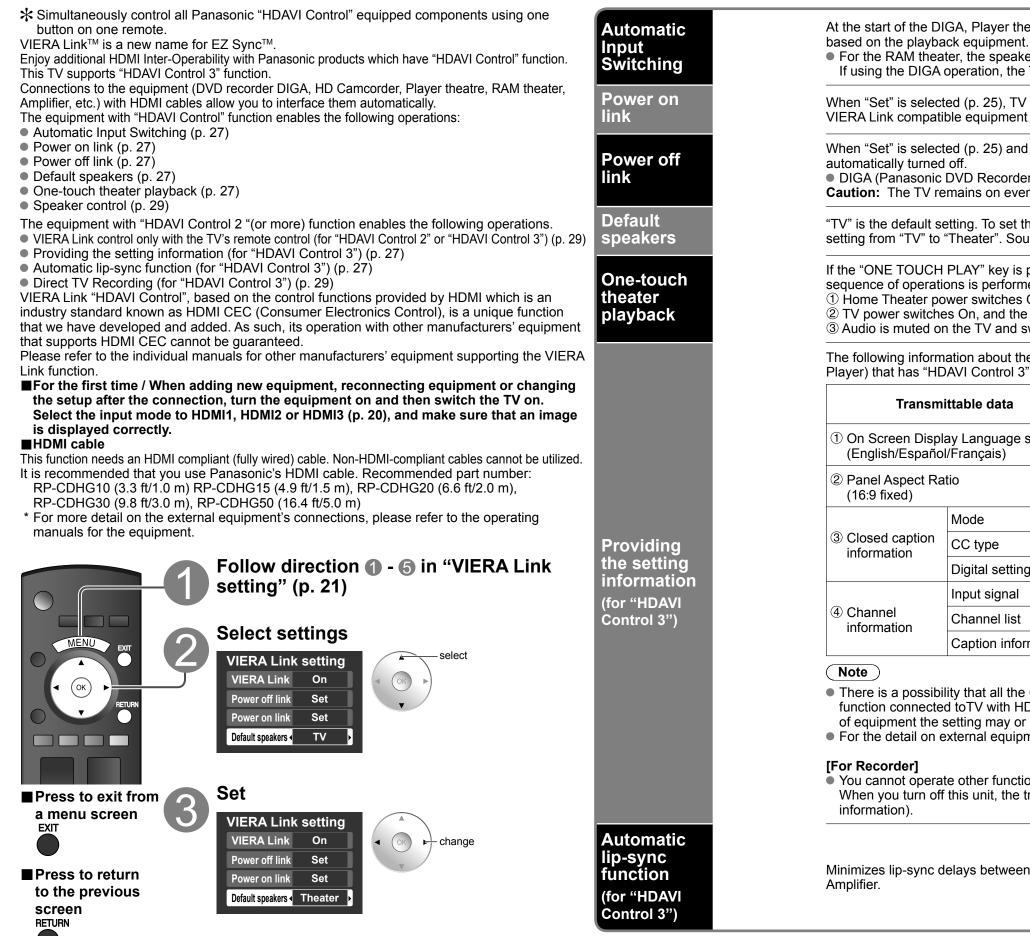
35)

/Off) annot be selected if "Off" is set.	VIERA Link On
Set/No)	Power off link Set
Set/No)	Power on link Set
	Default speakers TV
d device is turned On (No/Set) ill not function if "Auto power on" is set.	Auto power on No
SIGNAL and NO OPERATION is performed	
ock", or Digital channel. ut 10 seconds when the TV is turned on for off". e (3) remaining minutes prior to the shut-off.	No signal shut-off Set
peration of remote or side panel key	
ut 10 seconds when the TV is turned on for off. e (3) remaining minutes prior to the shut-off.	No action shut-off No
-friendly for viewing in a dark room.	Power Save Standard
	Play SD card automatically On
	About
hannel settings. (p. 32)	Reset

gurations (alternatives) ton (All/Favorite/Digital Only/Analog only)

n a digital image. (p. 33)

VIERA Link[™] "HDAVI Control[™]"*



• For the RAM theater, the speakers automatically switch to the theater system. If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed. When "Set" is selected (p. 25), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected. When "Set" is selected (p. 25) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off. • DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode. **Caution:** The TV remains on even if the VIERA Link compatible equipment is turned off. "TV" is the default setting. To set the Home Theater system as default speakers, change the default speakers setting from "TV" to "Theater". Sound will be output from the Home Theater whenever the TV is powered on. If the "ONE TOUCH PLAY" key is pressed on the remote control for Panasonic Home Theater system, the following sequence of operations is performed automatically. ① Home Theater power switches On, and playback begins. 2 TV power switches On, and the playback screen is displayed. ③ Audio is muted on the TV and switches to the theater system. The following information about the TV settings can be transmitted to each equipment (Recorder/Home theater/ Player) that has "HDAVI Control 3" function connected to a TV with HDMI cable. Transmittable data Recorder 1 On Screen Display Language setting 0 (English/Español/Français) 2 Panel Aspect Ratio Ο (16:9 fixed) Mode Ο ③ Closed caption CC type Ο information Digital setting Ο Input signal Ο 4 Channel Channel list Ο information Caption information Ο

Note

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

• For the detail on external equipment's operation, please refer to the operating manuals for the equipment.

[For Recorder]

information).

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

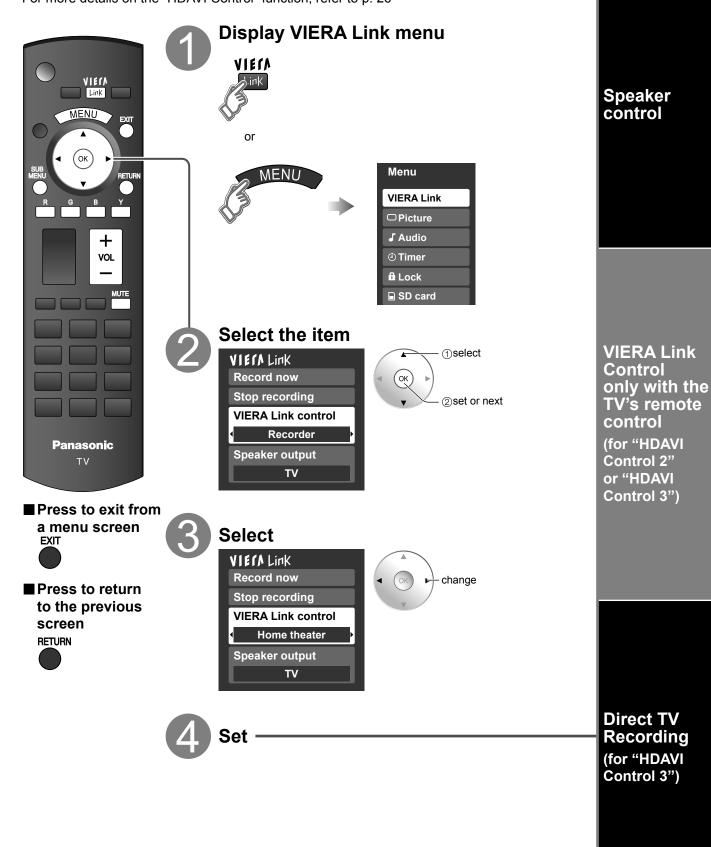
At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input

Home theater	Player	
0	0	
0	0	

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

VIERA Link[™] "HDAVI Control[™]"*

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link' menu. For more details on the "HDAVI Control" function, refer to p. 26

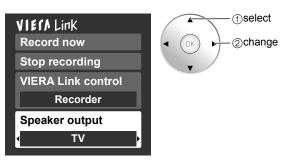


(Continued)

You can select Home theater or TV speakers for audio output. Control theater speakers with the TV's remote control. This function is available only when Panasonic Amplifier or Player theater is connected.

① Select "Speaker output"

2 Select "Home theater" or "TV"



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

- 1 Select "VIERA Link Control"
- 2 Select the equipment you want to access. (Recorder/Home theater/Player/Camcorder)

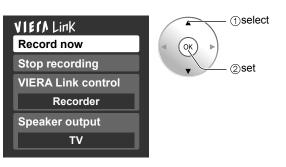
VIEIA Link	①select
Record now	
Stop recording	v
VIERA Link control	
Recorder	You can select availa
Speaker output	only.
TV	

③ Operate the equipment with the TV's remote

control, pointing it at the TV. To operate the equipment, read the manual of the equipment.

Records the current program on the recorder immediately.

①Select "Record now"



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

Home theater: Adjustment for equipment

Volume up / down + +



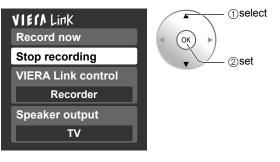
MUTE Mute 🔶

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

Available TV's remote control buttons

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

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

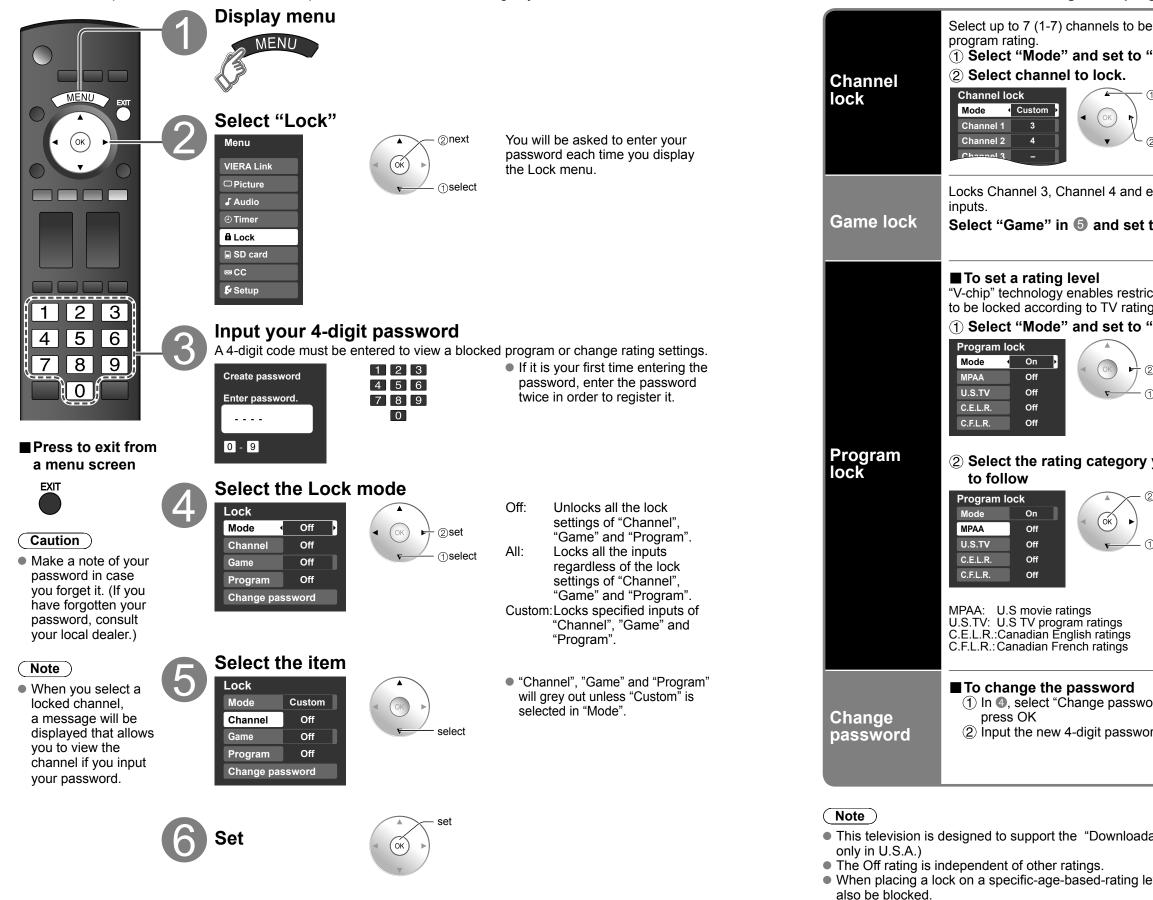


• Recording will not stop automatically when the program is finished.

VIERA Link[™] "HDAVI Control[™]"

Lock

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



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

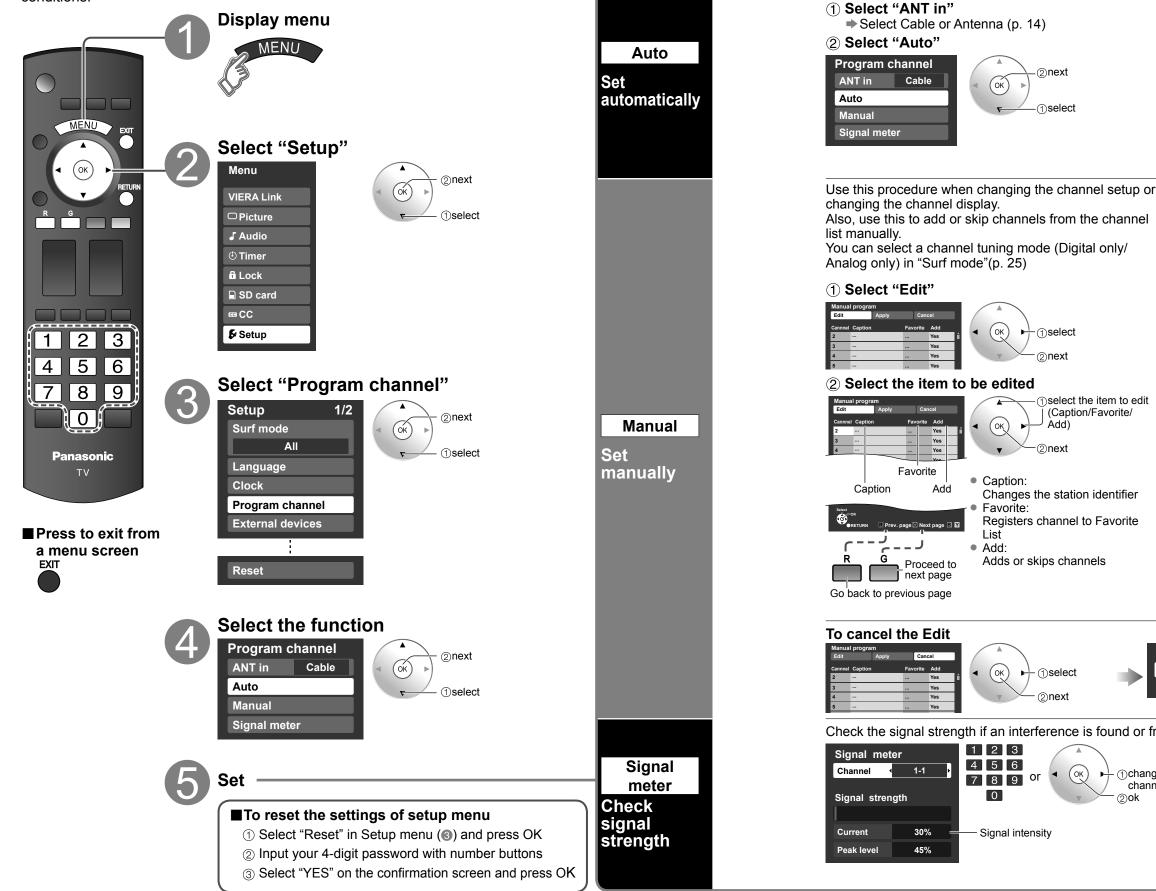
e blocked. These channels will be blocked regardless of the				
"Custom"				
⊕select	 To lock/unlock all channels: Select "Mode" and set to "All" or "Off". 			
②set	All: Locks all channels Off: Unlocks all channels			
external to "On".	()select On: Locks Off: Unlocks			
cted shows gs. " On". _{②set}	3 Select the rating to be locked Select Select Example of "MPAA" (U.S movie ratings)			
<pre>jsel jselect you wish 2next Jselect</pre>	NRNo ratingGGeneral Audience: All ages admittedPGParental Guidance SuggestedPG-Parents Strongly Cautioned: Inappropriate13for children under 13RRestricted: Under 17 requires accompanying parent or adult guardianNC- 17No one 17 and under admittedXAdults onlyTo get more information (p. 39)			
ord" and ord twice	Lock Mode Off Channel Off Game Off Program Off Change password 0 - 9			

• This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available

• When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will

Editing and Setting Channels

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



(2)next

(1) selec

-(1)select

(2)next

Add)

2 next

Adds or skips channels

nselect

⊘next

(ок)

(Caption/Favorite/

(oĸ́)

(ок)

(оқ)

Caption:

List

(OK)

1 2 3

4 5 6

0

7 8 9 ^{or}

— Signal intensity

Add:

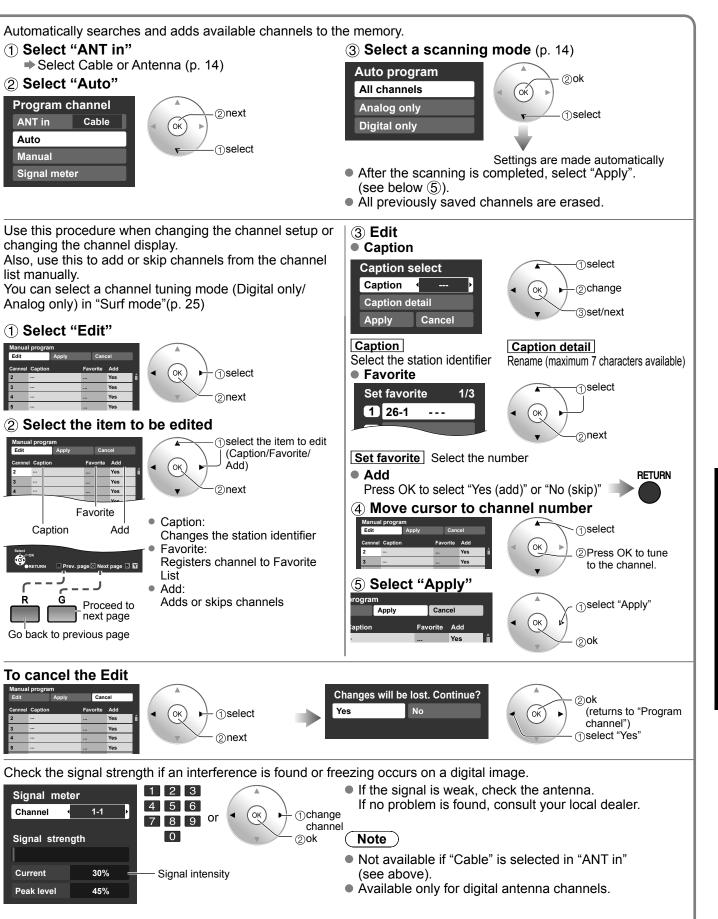
Favorite:

Yes

Yes

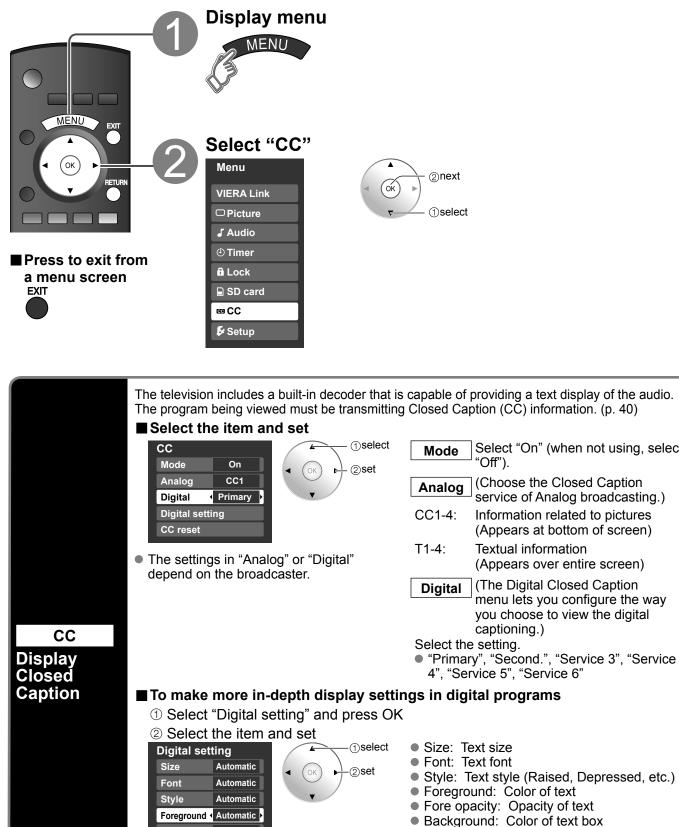
Add

Yes



Advanced

Closed Caption



Fore opacity Automatic

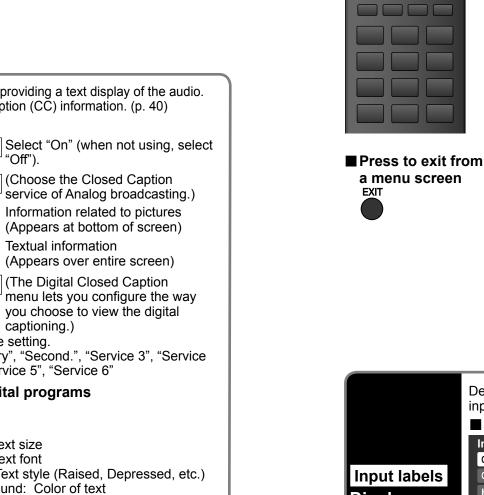
Back onacity Automatic

■ To reset the settings

Automatic

Automatic

Select "CC reset" and press OK



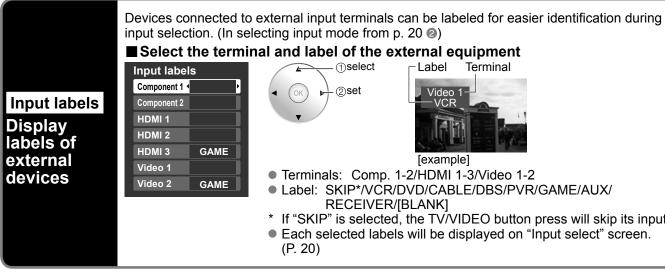
• Back opacity: Opacity of text box

(Identify the setting options on the screen.)

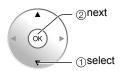
• Outline: Outline color of text

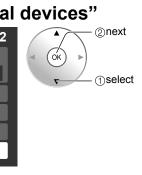
Display menu MENU Select "Setup" Menu VIERA Link □ Picture J Audio (1) Timer Lock SD card cc CC 🗗 Setup Select "External devices" 3 Setup 1/2 Surf mode All Language Clock Program channel External devices Select "Input labels" **External devices** Input labels

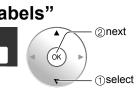
Input Labels



34



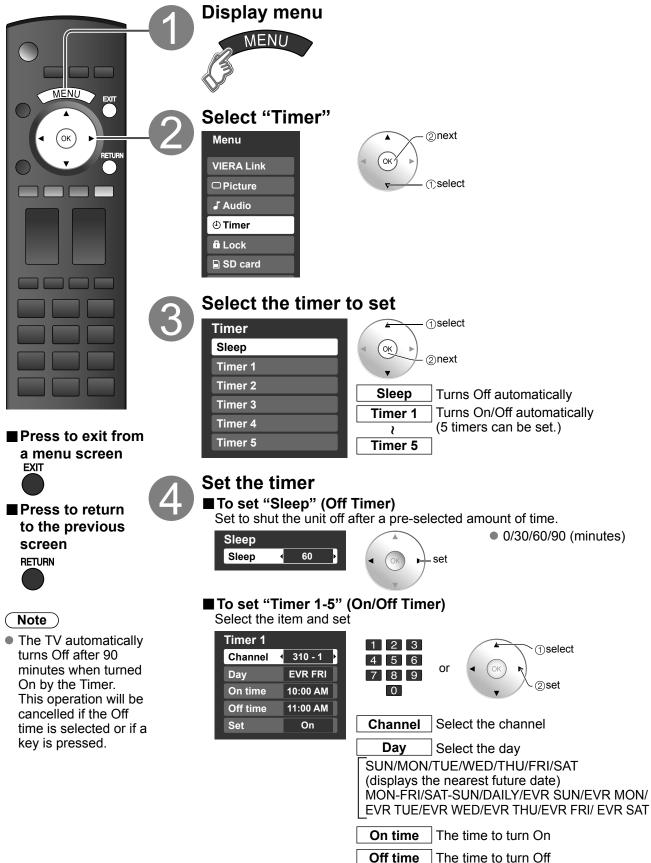




Label: SKIP*/VCR/DVD/CABLE/DBS/PVR/GAME/AUX/ * If "SKIP" is selected, the TV/VIDEO button press will skip its input. • Each selected labels will be displayed on "Input select" screen.

Using Timer

- The TV can automatically turn On/Off at the designated date and time.
- The Clock must be set before On time/Off time settings. (p. 13)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 25) is set.

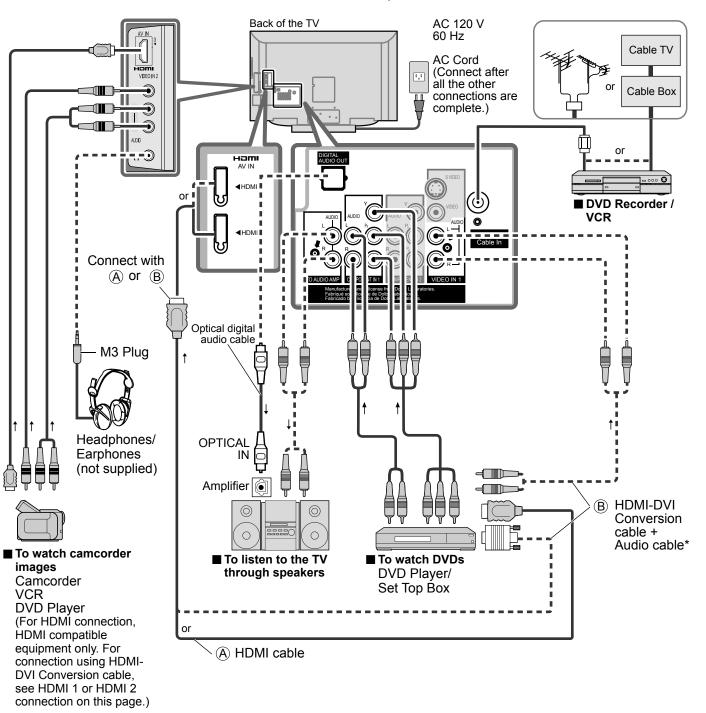


Timer setting (On/Off)

Set

Recommended AV Connections

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



* Please see p. 22-23 for setup when using an external analog audio cable with an HDMI to DVI cable.

www.panasonic.ca

VIERA Link[™] Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), RAM theater, or Player theater system. Refer to page 26-29 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not included.

Note

HDMI 1 is recommended.

When connecting to HDMI 2 / HDMI 3, set the input mode to HDMI 2 / HDMI 3 (p. 20) initially before connecting to HDMI 2 / HDMI 3. After connection, confirm the HDMI control functions (p. 26-29).

Connecting this unit to the DVD recorder (DIGA). RAM

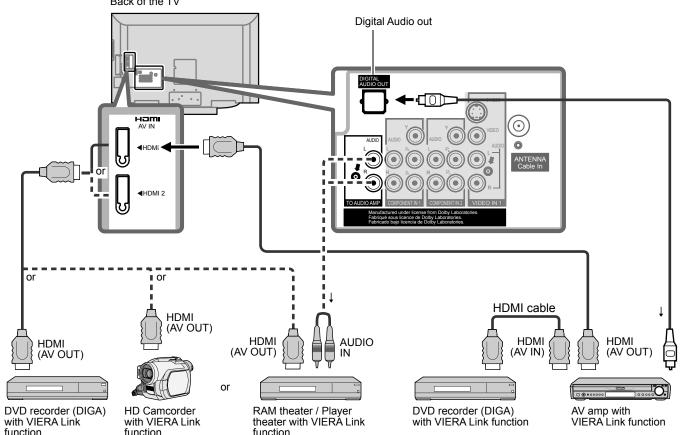
- theater, or Player theater • For DVD recorder (DIGA) :
- Connect with HDMI cable
- For RAM theater and Player theater: Connect with the HDMI and audio cables.

If audio cable is not connected, you cannot listen to the TV program through the theater system.

Back of the TV

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

Connecting this unit to a DVD recorder (DIGA) and AV amp When using an "VIERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) recorder, use a daisy chain connection as shown below.



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

Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 21, 24-25).

Note

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

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 31)

■ U.S. MOVIE RATINGS (MPAA)

NR	NO RATING (NOT RATED) AND NA (NOT APPLIC rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some ma
PG-13	PARENTS STRONGLY CAUTIONED. Some mate
R	RESTRICTED. Under 17 requires accompanying
NC-17	NO ONE 17 AND UNDER ADMITTED.
Х	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections		
NR (Not Rated)	TV-NR	ViewableBlocked	Not R	
Youth	TV-Y	ViewableBlocked	All ch desig	
	TV-Y7	 FV Blocked Viewable Blocked 	Direct incluct the ac	
Guidance	TV-G	ViewableBlocked	Gene and li	
	TV-PG	 D,L,S,V (all selected) Any combination of D, L, S, V 	Parer coars situat	
	TV-14	 D,L,S,V (all selected) Any combination of D, L, S, V 	Parer theme	
	TV-MA	 L,S,V (all selected) Any combination of L, S, V 	Matur profai	

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

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

	/
Е	Exempt - Exempt programming includes: news, s talk shows, music videos, and variety programmin
С	Programming intended for children under age 8. N
C8+	Programming generally considered acceptable for
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may
14+	Programming contains themes or content which m strongly cautioned to exercise discretion in permitt
18+	18+ years old. Programming restricted to adults. C

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

	/
E	Exempt - Exempt programming.
G	General - Programming intended for audience of a or is depicted appropriately.
8 ans+	8+ General - Not recommended for young children or occasional violence. Adult supervision recomme
13 ans+	Programming may not be suitable for children und more sufficiently violent scenes to affect them. Adu
16 ans+	Programming may not be suitable for children und violence.
18 ans+	Programming restricted to adults. Contains consta

Caution

- programming:"
- Emergency Bulletins (Such as EAS messages, weather warnings and others)

CABLE) PROGRAMS. Movie which has not been rated or where

aterial may not be suitable for children erial may be inappropriate for children under 13. parent or adult guardian.

Description

Rated.

hildren. The themes and elements in this program are specifically gned for a very young audience, including children from ages 2-6 cted to older children. Themes and elements in this program may ide mild physical or comedic violence, or may frighten children under age of 7.

eral audience. It contains little or no violence, no strong language, little or no sexual dialogue or situations.

ental guidance suggested. The program may contain infrequent se language, limited violence, some suggestive sexual dialogue and ations.

ents strongly cautioned. This program may contain sophisticated nes, sexual content, strong language and more intense violence.

ure audiences only. This program may contain mature themes, ane language, graphic violence, and explicit sexual content.

sports, documentaries and other information programming,

No offensive language, nudity or sexual content r children 8 years and over. No profanity, nudity or sexual content

y not be suitable for children

nay not be suitable for viewers under the age of 14. Parents are tting viewing by pre-teens and early teens.

Contains constant violence or scenes of extreme violence.

all ages. Contains no violence, or the violence content is minimal

n. Programming intended for a broad audience but contains light

ended

der the age of 13 - Contains either a few violent scenes or one or ult supervision strongly suggested. der the age of 16 - Contains frequent scenes of violence or intense

ant violence or scenes of extreme violence.

• 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

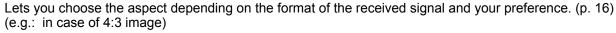
Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

Technical Information

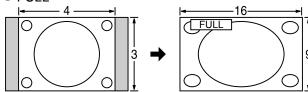
Closed Caption (CC)

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

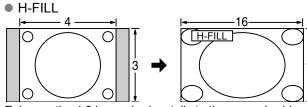
Aspect Ratio





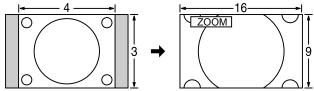


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)



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

ZOOM



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

Zoom adjust

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

① Select "Zoom adjust" on the "Picture" menu. (p. 22-23)

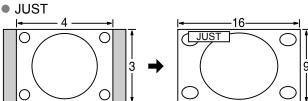
2 V-position: Vertical position adjustment





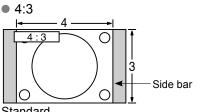






Stretches to justify the 4:3 image to the four corners of the screen.

(Recommended for normal TV broadcast)



Standard

- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9): FULL, JÚST, 4:3 or ZOOM

③ V-size: Vertical size adjustment

standards

9.999

Data format: Max. number of files: Image resolution:

160 x 120 to 10,000,000

Caution

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

(Note)

Photo:

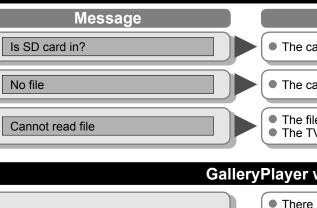
Folder structure viewed in PC

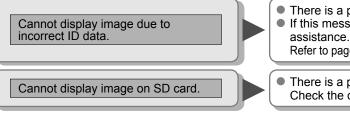
■DÇIM	—Created automatically
	— 3-digit folder number + 5-c
	 4-digit arbitrary characters ● Usable characters: 1-b
a falder and file manage many	he different depending on the

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

- 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.
- operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)

SD Card warning messages

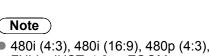




Viewing from a GalleryPlayer SD Card

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

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



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

Data format for SD Card browsing

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

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

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

-digit arbitrary characters

rs + 4-diait file number byte "a to z", "A to Z", "0 to 9," and ""

Cautions in handling SD Card:

Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic

Meaning

The card is not inserted.

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

• The file is broken or unreadable. The TV does not support the format.

GalleryPlayer warning messages

• There is a problem with your TV decoder. • If this message appears, please contact Panasonic Service Center for Refer to page 48 (Customer Services Directory), page 47, 49 (Limited Warranty)

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

Technical Information (Continued)

VIERA Link[™] "HDAVI Control[™]"

- HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 26)
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link™ is available for the terminal with the smaller number.
- If you connect equipment that has "HDAVI Control 2" (or more) function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for the HDAVI Control compatible equipment. This standard is compatible with the conventional HDAVI equipment.

HDMI connection

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

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a 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. 22) Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

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

(Caution)

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

Input signals that can be displayed

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

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) /60p	31.47	59.94	*	*
750 (720) /60p	45.00	59.94	*	*
1,125 (1,080) /60i	33.75	59.94	*	*
1,125 (1,080)/60p	67.43	59.94		*
1,125 (1,080)/60p	67.50	60.00		*
1,125 (1,080)/24p	26.97	23.98		*
1,125 (1,080)/24p	27.00	24.00		*

Note

Signals other than those shown above may not be displayed properly.

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

Picture mode

- Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard: Recommended for normal viewing conditions with subdued room lighting.
- Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.
- For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 35) Game:
- Custom (Photo): Customizes each item according to your taste.
- Photo is displayed in JPEG menu.

Note

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

DIGITAL AUDIO OUT terminals

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

(Caution)

- External speakers cannot be connected directly to TO AUDIO AMP terminals.
- channel is selected, the output will be PCM.

Care and Cleaning

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

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

- display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.

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

- If the cabinet is particularly dirty, soak the cloth in a weak mild liquid dish soap and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the LCD TV. If water droplets get inside the unit, operating problems may result.
- from rubber or PVC.

Cleaning

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

contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

Wipe the plug with a dry cloth at regular intervals. (Moisture and dust can lead to fire or electrical shock.)

Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output. When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC

Display panel

If the surface is particularly dirty, soak a soft, lint-free cloth in diluted mild liquid dish soap (1 part mild liquid dish soap diluted) by 100 times the amount of water) and then wring the cloth to remove excess liguid. Use this cloth to wipe the surface of the

• 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

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

Pedestal

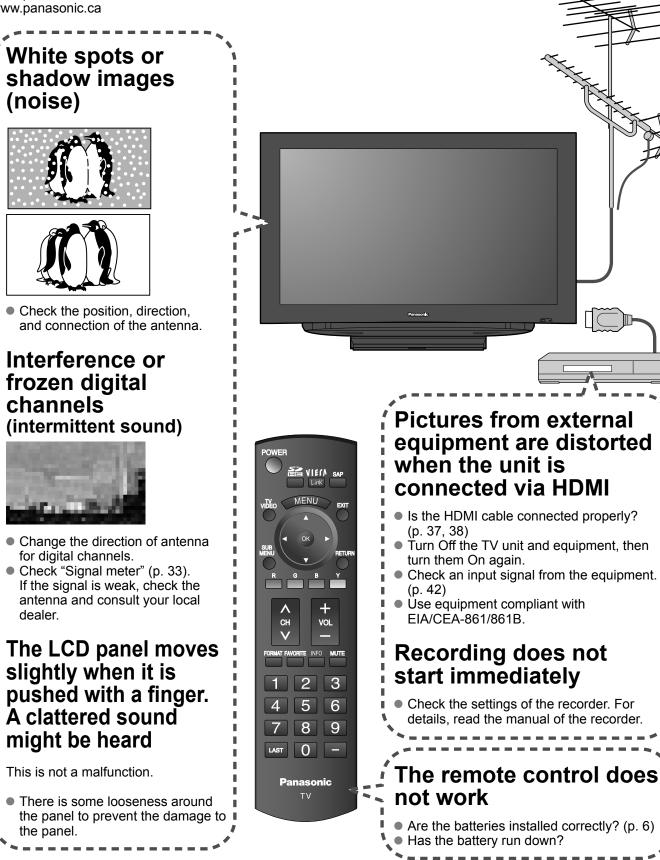
• Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term

Power cord plug

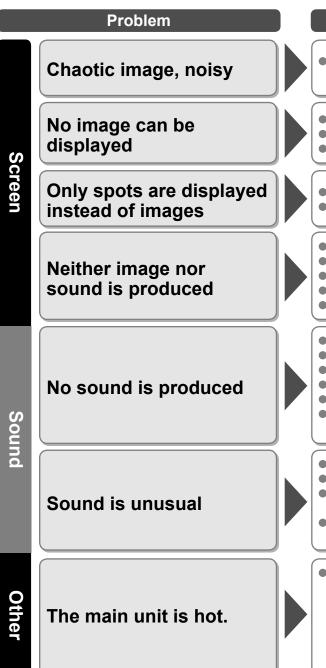
FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 48, 49)

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



If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).



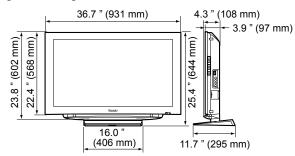
Actions
Check nearby electrical products (car, motorcycle, fluorescent lamp).
Check Picture menu (p. 22) Check the cable connections. Check that the correct input has been selected.
Check the channel settings. (p. 32) Check the antenna cables.
Is the power cord plugged into the outlet? Is the TV unit turned On? Check Picture menu (p. 22) and volume. Check the AV cable connections. Check that the correct input has been selected.
Are the speakers' cables connected correctly? Is "Sound Mute" active? (p. 12) Is the volume set to the minimum? Is "Speaker output" set to "Off"? (p. 22) Change "SAP" settings. (p. 16) Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 22)
 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.
The main unit radiates heat and some of the parts may become hot. This is not a problem for performance or quality. Set up in a location with good ventilation. Do not cover the ventilation holes of the TV with a tablecloth, etc., and do not place on top of other equipment.

Frequently Asked Questions

Specifications

		TC-37LZ85			
Power Source		AC 120 V, 60 Hz			
Power Consumption	Maximum Standby condition	222 W 0.2 W			
Display panel	Aspect Ratio	16:9			
	Visible screen size	37" class (37.0 inches measured diagonally)			
	(W × H × Diagonal)	32.2 " × 18.1 " × 37.0 " (819 mm × 460 mm × 940 mm)			
<u>e</u>	(No. of pixels)	2,073,600 (1,920 (W) × 1,080(H)) [5,760 × 1,080 dots]			
Sound	Speaker	1 way 2 speakers slim under SP System			
	Audio Output	20 W [10 W + 10 W] (10 % THD)			
	Headphones	M3 (3.5 mm) Jack × 1			
Char ATS	nnel Capability- C/NTSC (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135			
Operating Conditions		Temperature: 32 °F – 95 °F (0 °C – 35°C) Humidity: 20 % – 80 % RH (non-condensing)			
	VIDEO IN 1	$\begin{array}{llllllllllllllllllllllllllllllllllll$			
Conr	VIDEO IN 2	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]			
Connection	COMPONENT IN 1-2	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]			
Terminals	HDMI 1-3	TYPE A Connector × 3 • This TV supports "HDAVI Control 3" function.			
als	Card slot	SD CARD slot × 1			
	TO AUDIO AMP	AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]			
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic			
FEATURES		3D Y/C Digital Comb Filter, CLOSED CAPTION, V-Chip HDMI (HDAVI Control 3) Vesa compatible Photo viewer			
Dimensions (W × H × D)	Including TV stand	36.7 " × 25.4 " × 11.7 " (931 mm × 644 mm × 295 mm)			
	TV Set only	36.7 " × 23.8 " × 4.3 " (931 mm × 602 mm × 108 mm)			
Mass		48.6 lb. (22 kg) NET			

[TC-37LZ85]



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 LCD Televisions 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 ("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.

LCD TV CATEGORIES	PARTS	LABOR	SERVICE
Up to 20' (diagonal)	1 (ONE) YEAR	1 (ONE) YEAR	Carry-In or Mail-in
21" (diagonal) and larger			In Home or Carry-in / Mail in

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

In-Home or Carry-in Service

For In-Home or Carry-In Service in the United States call 1-800-211-PANA(7262) or visit the Panasonic web Site: http://www.panasonic.com.

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 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 LCD panel resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or nonexpanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The 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 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 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 warranty lasts, so the exclusions may not apply to you.

This 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 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.

ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Note

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

PANASONIC SALES COMPANY, DIVISION OF: PANASONIC PUERTO RICO, INC. Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH

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: 1-888-211-PANA (7262) 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 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	
LCD TV (26 in & over)	In-home service	С

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

LIMITATIONS AND EXCLUSIONS

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

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed. THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL. INDIRECT OR CONSEQUENTIAL DAMAGES.

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

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

WARRANTY SERVICE

For product operation and information assistance, please contact: Our Customer Care Centre: 1-800 #: 1-866-330-0014 Email link: www.vieraconcierge.ca

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

IF YOU SHIP THE PRODUCT TO A SERVICENTRE Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

Panasonic Canada Inc.

One (1) year, parts (including Plasma Panel) and labour. One (1) year, parts (including LCD Panel) and labour.