

Operating Instructions 26"/32" DIAGONAL LCD TV Manual de instrucciones TV DE LCD DE 26"/32" DIAGONAL



Model No. Número de modelo **TC-26LX70**

TC-32LX70

Quick Start Guide

(See page 6)

Guía de inicio rápido

(vea la página 6)



For assistance (U.S.A.), please call: 1-800-211-PANA (7262)

or visit us at www.panasonic.com/contactinfo For assistance (Puerto Rico), please call:

787-750-4300 or visit us at www.panasonic.com

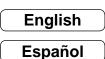
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 Para solicitar ayuda (Puerto Rico), llame al:

787-750-4300 ó visítenos en www.panasonic.com





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.

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

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





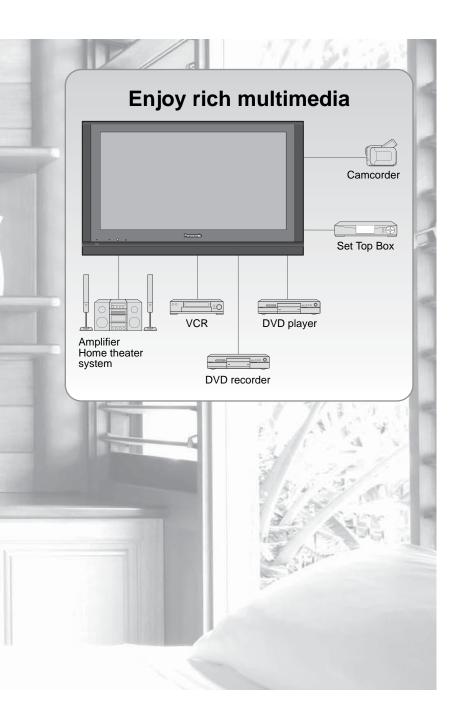
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HDAVI Control[™] is a trademark of Matsushita Electric Industrial Co., Ltd.

EZ Sync™

EZ Sync™ is a trademark of Matsushita Electric Industrial Co., Ltd.



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Safety Precautions







The lightning flash with arrow head 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.

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.
- 3) 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.

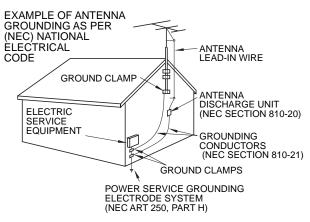


13) Unplug this apparatus during lightning storms or when unused for long periods of time.

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.



- 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 keep from touching such power lines or circuits as contact with them might be fatal.
- 20) Unplug this LCD TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the LCD TV.
 - c. If the LCD TV has been exposed to rain or water.
 - d. If the LCD TV does not operate normally by following the operating instructions.

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 qualified technician to restore the LCD TV to normal operation.

- e. If the LCD TV has been dropped or the cabinet has been damaged.
- f. When the LCD TV exhibits a distinct change in performance this indicates a need for service.
- 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, MOISTURE, DRIPPING OR SPLASHING. DO NOT PLACE LIQUID CONTAINERS (FLOWER VASES, CUPS, COSMETICS, ETC.) ABOVE THE SET (INCLUDING ON SHELVES ABOVE, ETC.).
 23) 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.
 24) CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS BUILD WITH A RECEDITACLE OR OTHER OUTLET.
- 24) CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.
- 25) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- 26) CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.
- 27) CAUTION: This LCD TV is for use only with the following optional accessory. 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-WK32LR2W

Always be sure to ask a qualified 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 product utilizes tin-lead solder and has a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

FCC STATEMENT

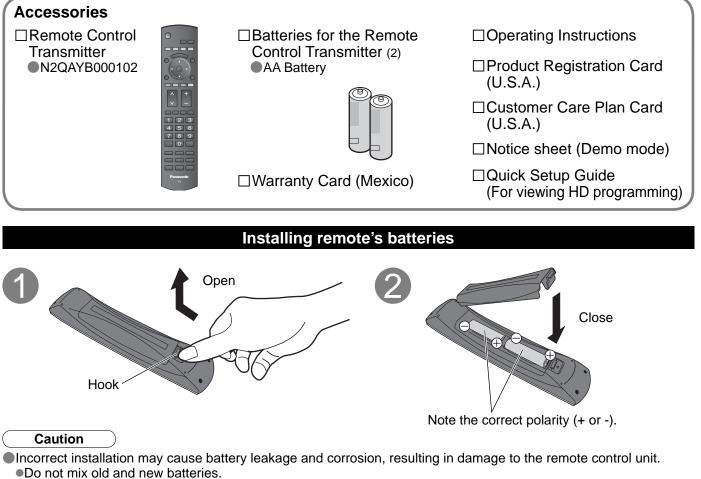
This equipment has been tested and found to comply with the limits for a TV Broadcast Receiver, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio 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: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Accessories/Optional Accessory

Check you have all the items shown.



•Do not mix different battery types (such as alkaline and manganese batteries).

•Do not use rechargeable (Ni-Cd) batteries.

Do not burn or break batteries.

Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39-41)

Location

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.

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

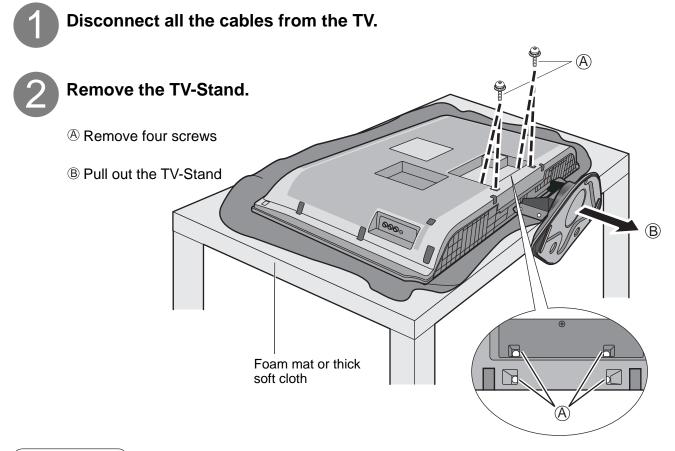
Adequate ventilation is essential to prevent an internal component failure. Keep away from areas of excessive heat or moisture.

Optional accessory (When installing on the wall)

Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

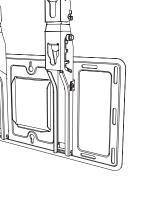
Wall-hanging bracket (vertical) TY-WK32LR2W

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



WARNING

- Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer. Any damage resulting from not having a professional installer mount 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.
- Do not mount this LCD Television directly below ceiling lights (such as spotlights, floodlights, or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.



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. VCR

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



DVD Recorder

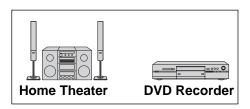
리:이

VCR

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.

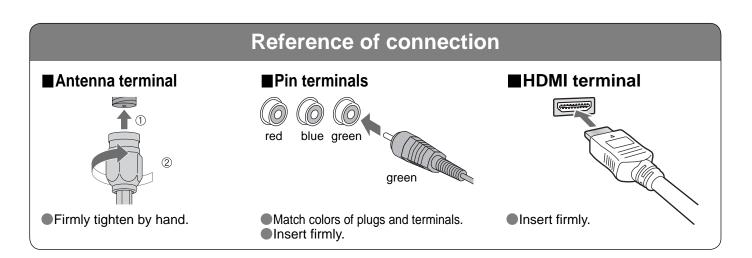


Note

●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. 21 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 of the equipment.

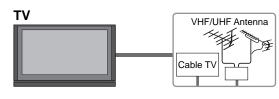


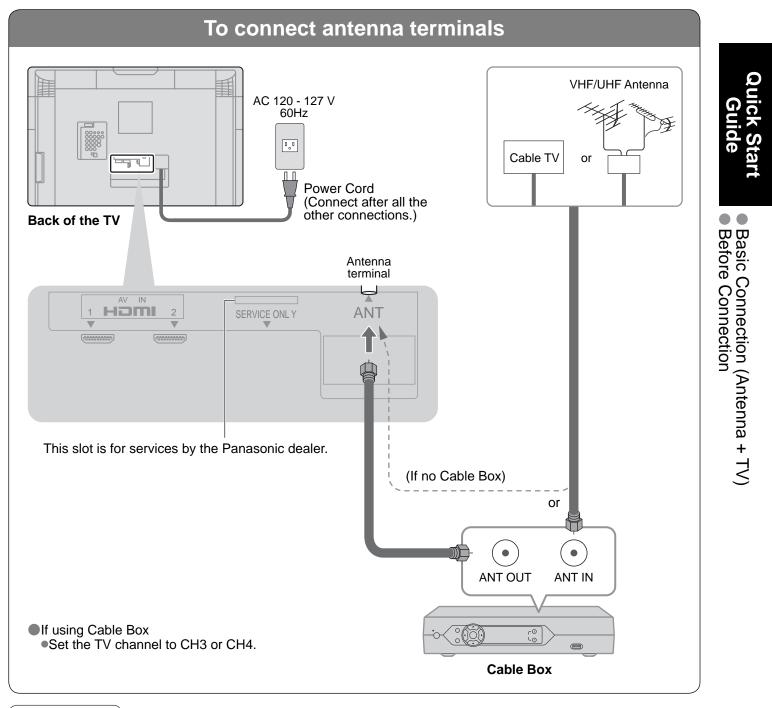
VHF/UHF Antenna Cable Box/ Cable

Basic Connection

Example 1

Connecting Antenna (To watch TV)





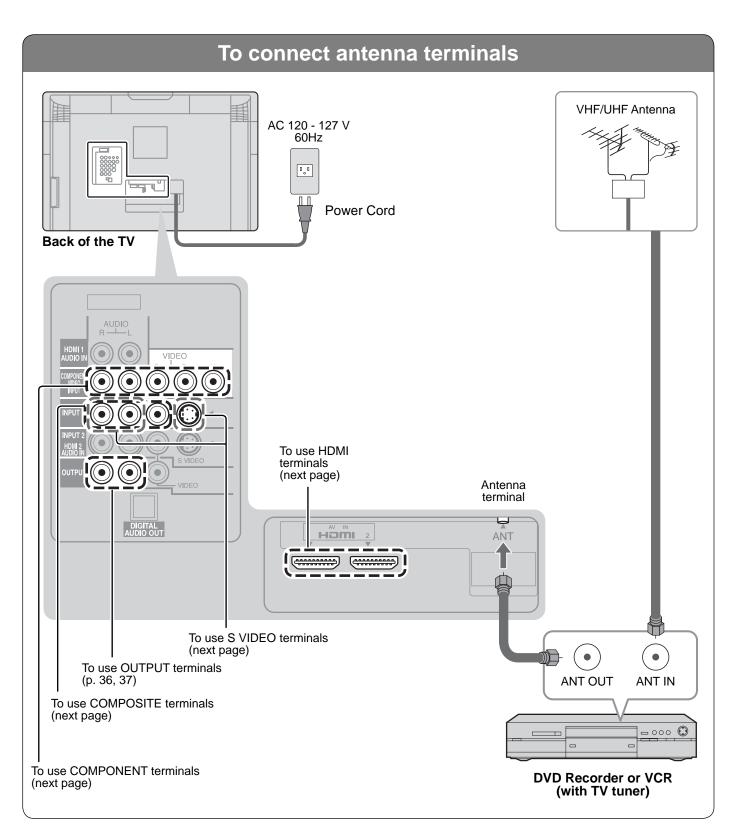
Note

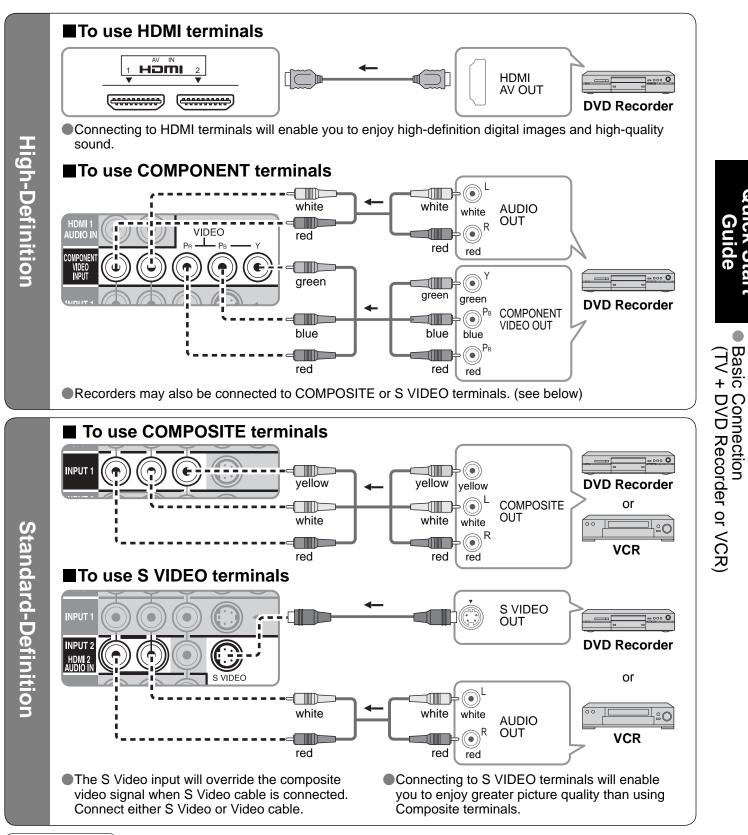
For additional assistance, visit us at: www.panasonic.com www.panasonic.ca

Basic Connection (Continued)

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







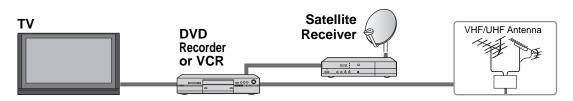
Note

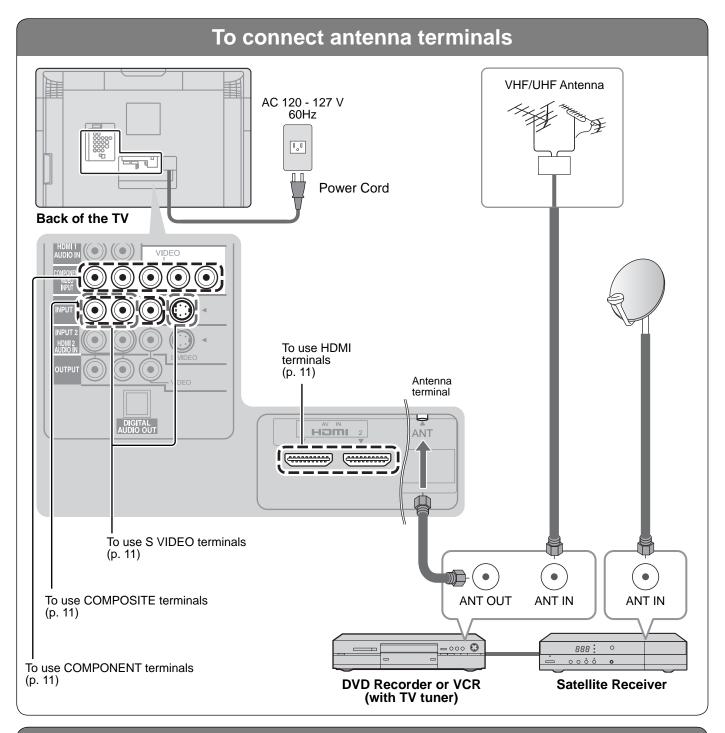
Some programs contain a copyright protection signal to prevent recording.

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

Basic Connection (Continued)

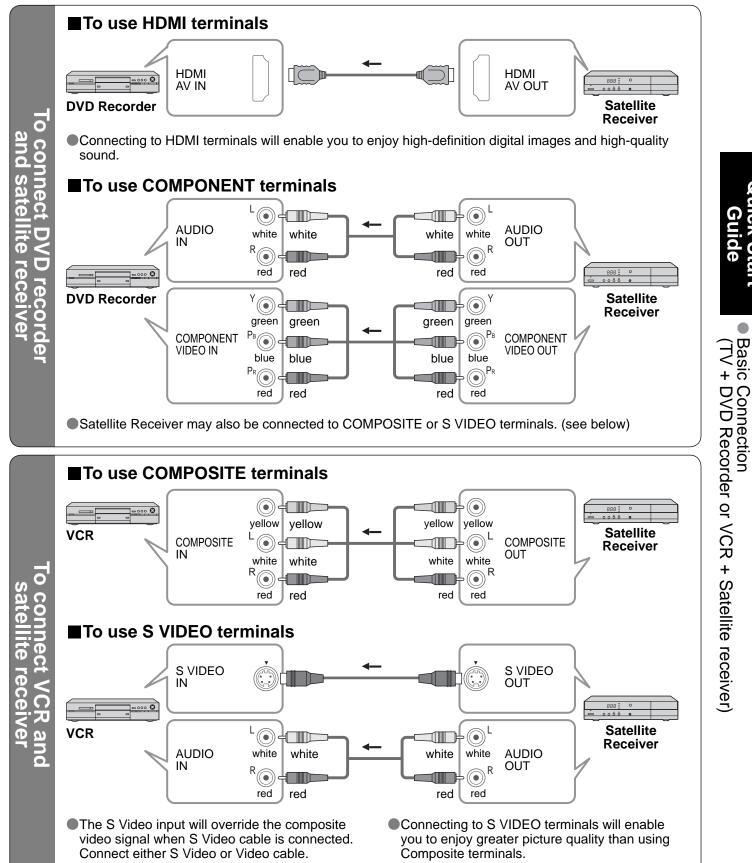
Example 3 Connecting DVD recorder (VCR) and satellite receiver



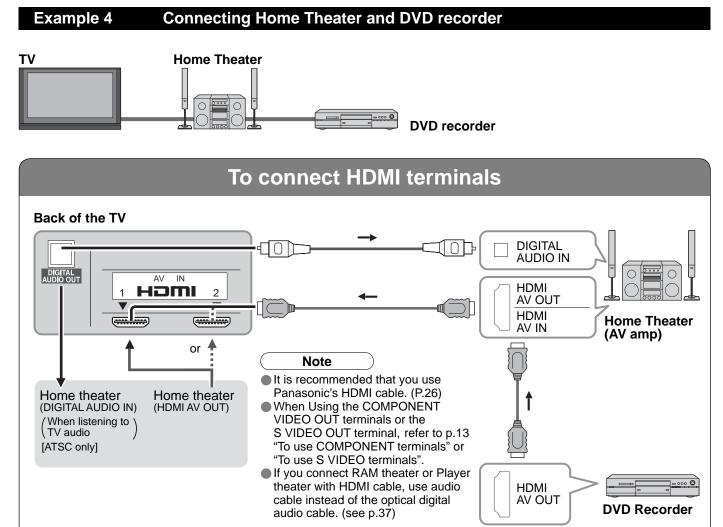


Connecting TV and DVD recorder (VCR)

Connect in the same way as on p. 11.



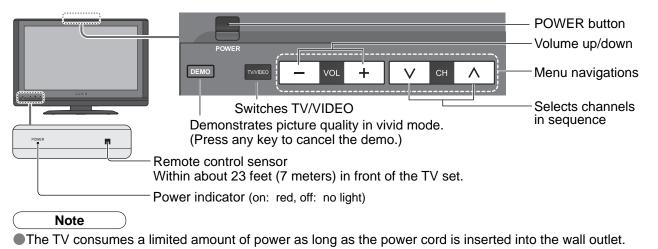
Basic Connection (Continued)

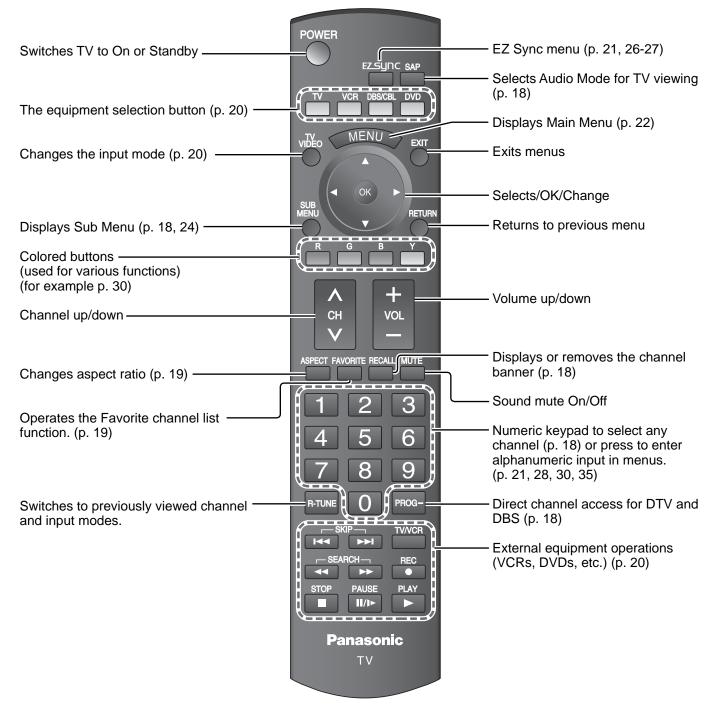


Quick Star

Identifying Controls Basic Connection

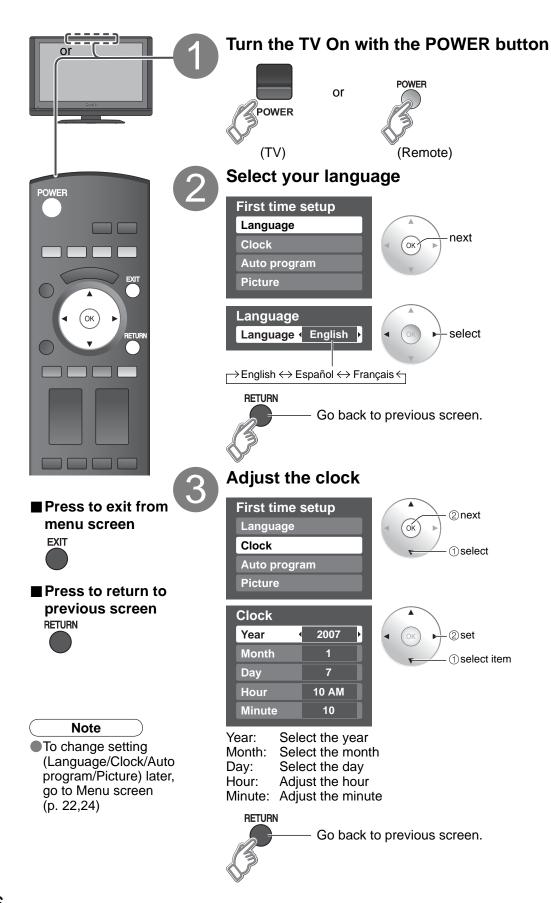
Identifying Controls





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".





menu screen

Note

Analog (NTSC): traditional TV

programming

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

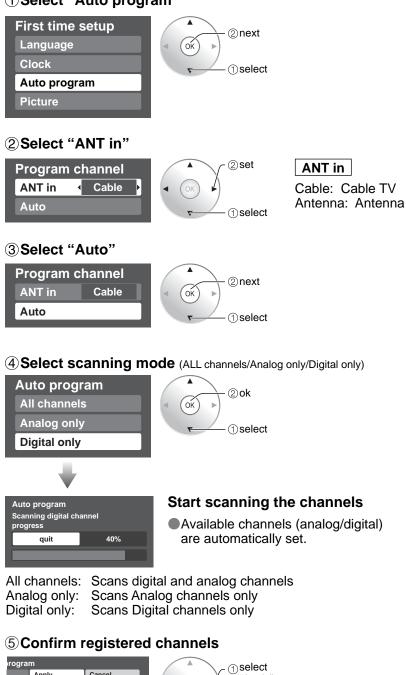
systems

About broadcasting

EXIT

Auto channel setup

1)Select "Auto program"



Cancel Apply "Apply" OK Favorite Add Yes (2)**ok** Yes

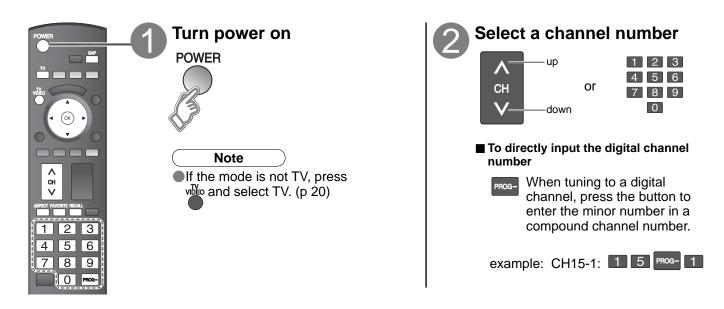
If OK is not pressed after selecting "Apply", the channels will not be saved. If you perform scanning more than twice, previously saved channels are erased.

First time setup	
Language	
Clock	
Auto program	
Picture	(Re

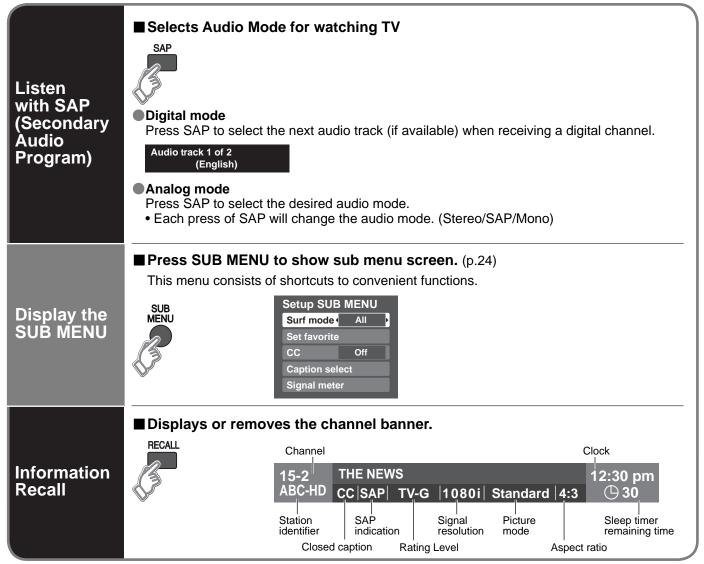
(Refer to p. 22)

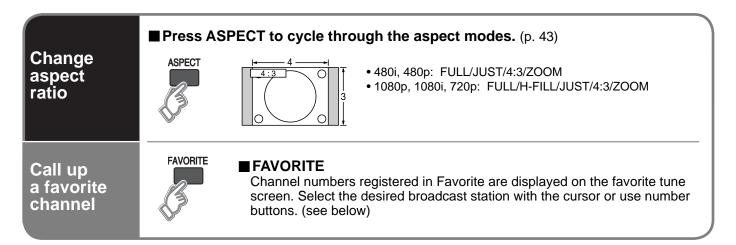
Watching TV

Connect the TV to a cable box/cable, set-top-box, satellite box, or antenna cable (p. 8-9)



■ Other Useful Functions (Operate after 2)

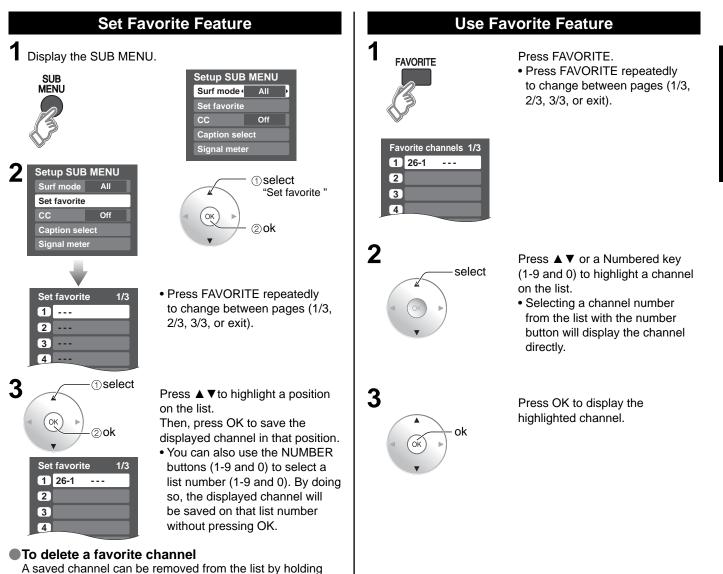




Note

Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 17, 31)

The channel number and volume level remain the same even after the TV is turned off.



down OK while its position is highlighted.

To change the page

Pressing ◀ changes the page backward.

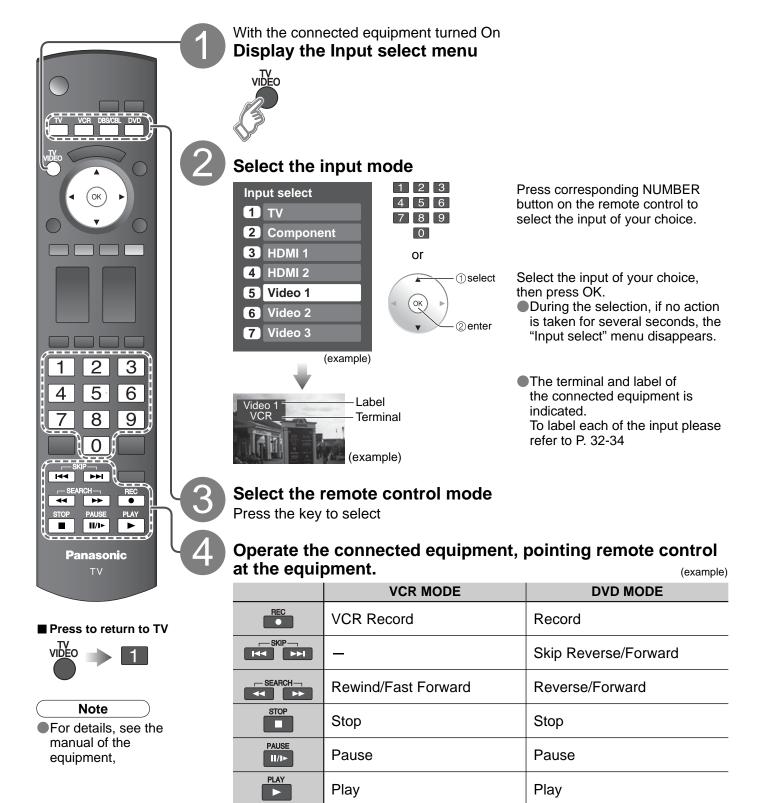
Watching Videos and DVDs

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

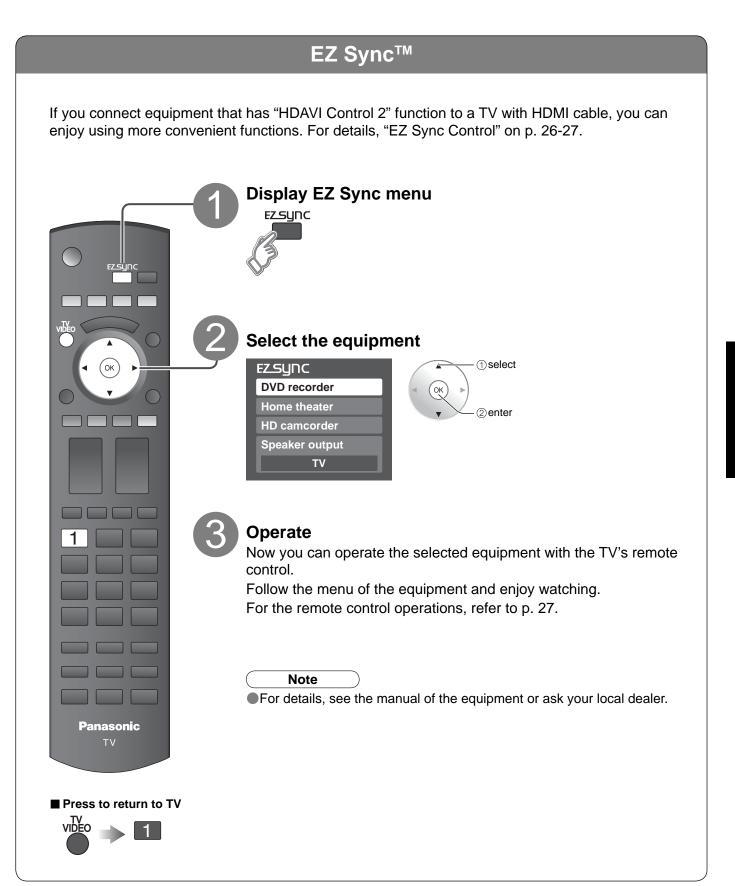
Input Select

You can select the external equipment to access.

To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 35)

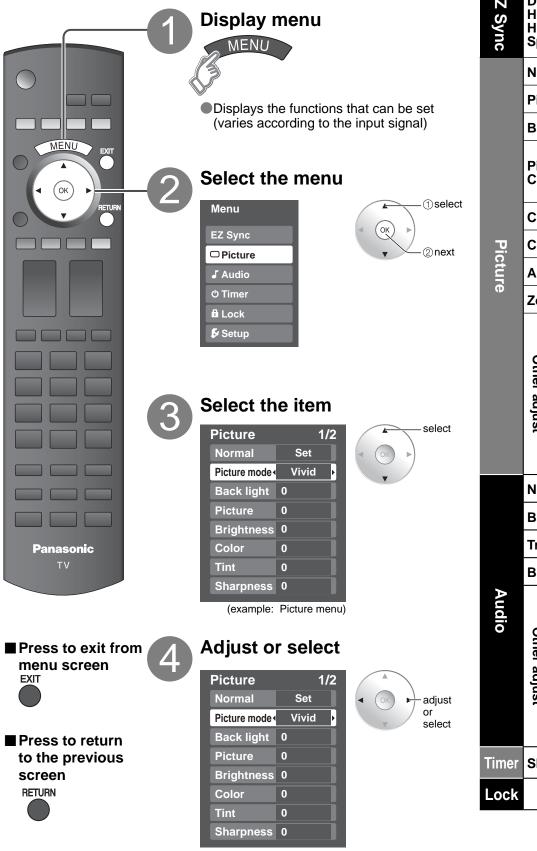


(For other operations, see p. 38)



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.



Men	u lis	st		
Menu	Item			
EZ Sync	DVD recorder, Home theater, HD camcorder, Speaker output			
	Nor	rmal		
	Picture mode			
	Bac	ck light		
	Picture, Brightness, Color, Tint, Sharpness			
	Col	or temp.		
Pic	Col	or mgmt.		
Picture	Al p	Al picture		
Ð	Zoom adjust			
		Video NR		
	Other adjust	3D Y/C filter		
		Color matrix		
		MPEG NR		
		Black level		
	Nor	rmal		
	Bas	SS		
	Tre	ble		
	Balance			
Aud		AI sound		
io	Q	Surround		
	Other adjust	Speaker output		
		HDMI 1 in HDMI 2 in		
		Audio leveler		
Timer	Sleep, Timer 1-5			
Lock			_	
	-			

(example: Picture menu)

Adjustments/Configurations (alternatives)	
 [DVD recorder/Home theater/HD camcorder] Select equipment to access and operate. (p. 26-27) [Speaker output] Select audio output. (Home theater/TV) (p. 26-27) EZ Sync menu is accessible directly by pressing the EZ Sync button on the 	e remote control. 🏓 💼 (p. 21)	
Resets all picture adjustments to factory default settings except for "Other a	adjust" (Set/No)	Normal Set
Basic picture mode (Vivid/Standard/Cinema/Custom) (p. 45)	[Picture mode Vivio
Adjusts luminance of the back light.	[Back light +20
Adjusts color, brightness, etc. for each picture mode to suit your taste		Tint 0 Sharpness 0
Selects level of warm colors (red) and cool colors (blue) (Cool/Normal/War	rm) [Color temp. Coo
On: Enhances green and blue color reproduction, especially outdoor scene	es. (On/Off)	Color mgmt. On
Controls dark areas without affecting the black level or brightness in the over	erall picture (On/Off)	Al picture On
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 43)	[Zoom adjust
Reduces noise, commonly called snow. Leave it off when receiving a strong	g signal. (Off/On)	Video NR Off
Minimizes noise and cross-color in the picture. (On/Off)	[3D Y/C filter Off
 Selects image resolution of component-connected devices (HD/SD) SD: Standard Definition HD: High Definition Only 480p signal accepted; regular TV (NTSC) is not available. 	[Color matrix SD
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)	[MPEG NR Off
Selects Dark or Light. Valid only for external input signals. (Dark/Light)	[Black level Ligh
Resets Bass, Treble and Balance adjustments to factory default settings. (S	Set/No) [Normal Set
Increases or decreases the bass response.	[Bass +4
Increases or decreases the treble response.	[Treble 0
Emphasizes the left / right speaker volume.	[Balance 0
Equalizes overall volume levels across all channels and external inputs. (O	n/Off) [Al sound On
Enhances audio response when listening to stereo. (On/Off)	[Surround Off
Switches to "Off" when using external speakers (On/Off) • "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected		Speaker output On
Selects according to the signal when HDMI is connected (Auto/Digital/Ana • Auto: Automatically selects Analog / Digital signal	alog) [HDMI1 in Auto HDMI2 in Auto
Minimizes volume disparity after switching to external inputs	[Audio leveler 0
The TV can automatically turn On/Off at the designated date and time (p. 3-	4)	Sleep 60
Locks the channels and programs (p. 28)		

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

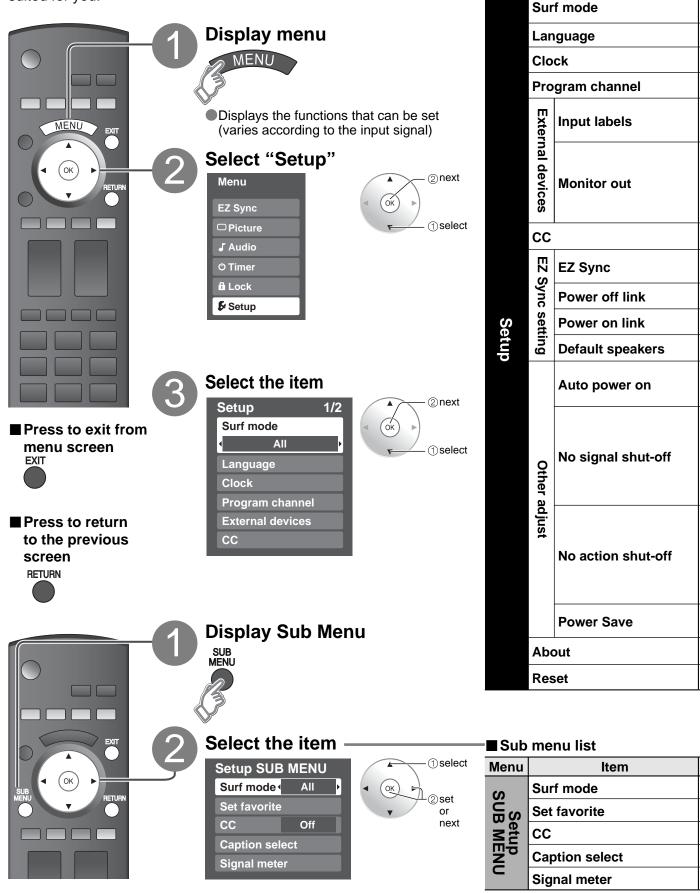
How to Use Menu Functions

Menu list

Item

Menu

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.



(Continued)

Adjustments/Configurations (alternatives)		
Sets the mode to select the channel with Channel up/down button (Favorite./All) Favorite.: Only channels registered as FAVORITE (p. 31) 	Surf mode All	
Selects the screen menu language (p. 16)	Language	
Adjusts the clock (p. 16)	Clock	
Sets channels (p. 30)	Program channel	

Selects the terminal and label of the external equipment (p. 32)

[Comp./HDMI 1/HDMI 2/Video 1/Video 2/Video 3] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 32) (On/Off)

Displays subtitles (Closed Caption) (p. 32)	CC
Controls equipment connected to HDMI terminals (p. 26) (On/Off) ■ "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	EZ Sync On
Sets "Power off link" of HDMI connection equipment (p. 26) (Set/No)	Power off link Set
Sets "Power on link" of HDMI connection equipment (p. 26) (Set/No)	Power on link Set
Selects the default speakers (p. 26) (TV/Theater)	Default speakers TV
 Furns 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. 34) 	Auto power on No
 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", or Digital channel. "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 	No signal shut-off Set
 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" or "On/Off Timer". "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off". The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off. 	No action shut-off No
Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. [Standard/Saving]	Power Save Standard
Displays TV version and software license.	About
Performing Reset will clear all items set with Setup, such as channel settings. (p. 30)	Reset

Adjustments/Configurations (alternatives)

Sets the mode to select the channel with Channel up/down button (Favorite./All)

Sets favorite channels. (p. 19)

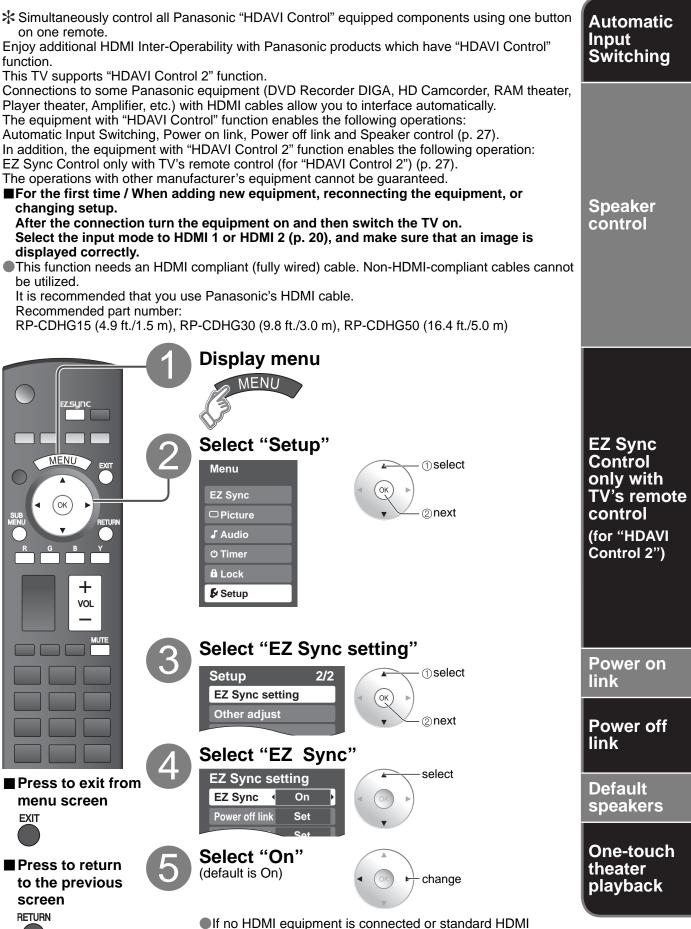
Displays Closed Caption. (p. 32-33)

Changes the station identifier. (p. 30-31)

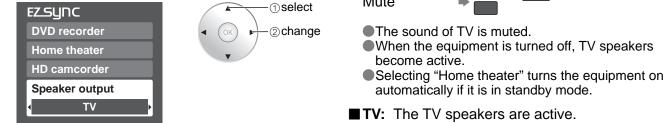
Checks the signal strength if interference or freezing occurs on a digital image. (p. 30-31)

Advanced

EZ Sync[™] "HDAVI Control[™]"*



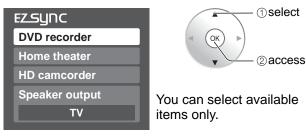
equipment (non- "EZ Sync") is used, set to "Off".



In the EZ Sync menu, you can select an 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

²Select the equipment you want to access.



⁽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

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

When "Set" is selected (p.25), 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.25) 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.

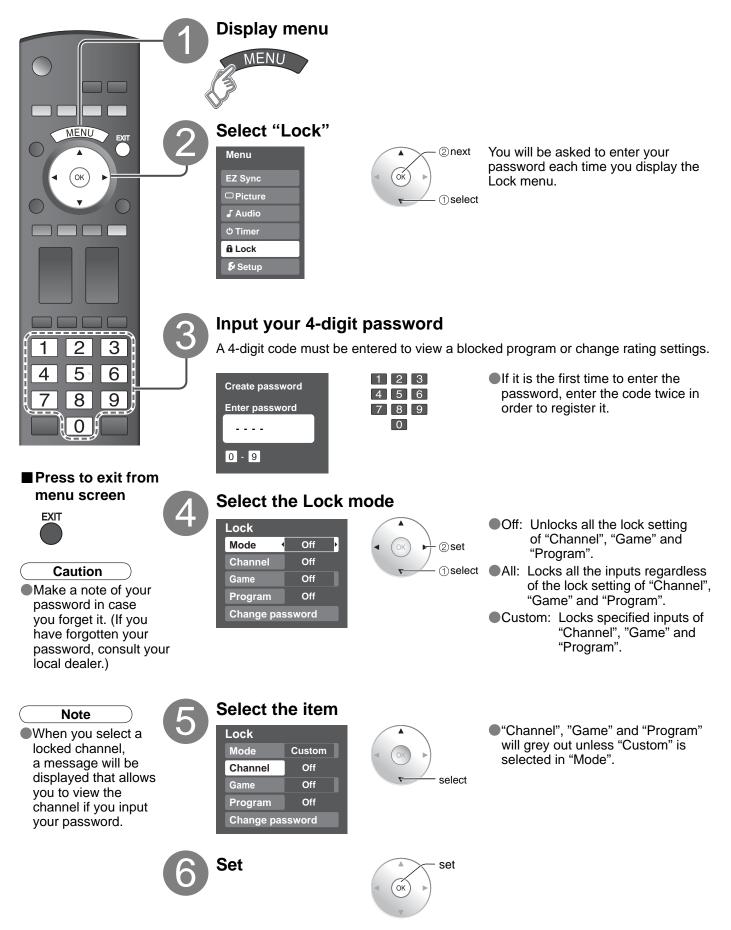
① Home Theater power switches On, and playback begins.

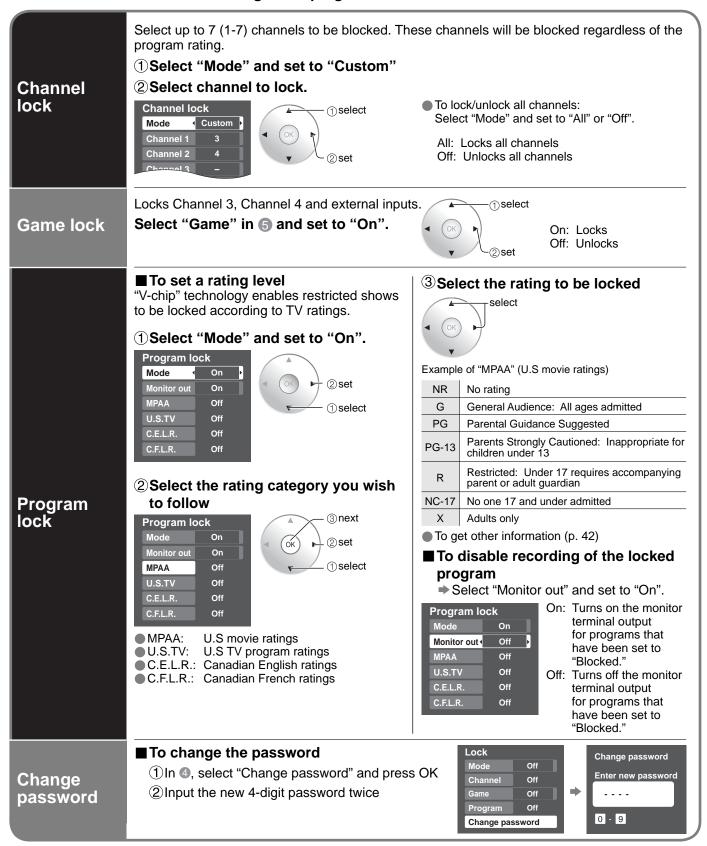
(2) TV power switches On, and the playback screen is displayed.

③ Audio is muted on the TV and switches to the theater system.

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

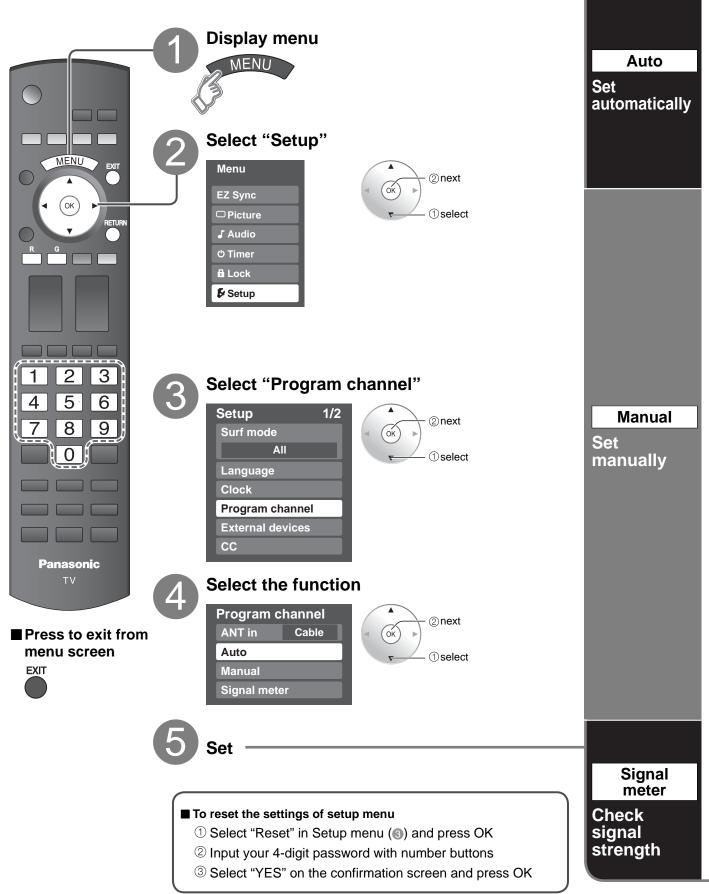
Note

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.



Automatically searches and adds active channels to memory. 3 Select scanning mode (p. 17) (1) Select "ANT in" → Select Cable or Antenna (p. 17) Auto program 2) ok 2 Select "Auto" All channels (ok Analog only Program channel (1) select **Digital only** 2 next ANT in Cable (ok) Auto Settings are made automatically (1) select Manual After completing the setting, select "Apply". (see below (5)). Signal meter All previously saved channels are erased. ③Edit Use this procedure when changing setting of receiving Caption channels or changing the channel display. select **Caption select** Also, use to add or skip channels from channel list Caption (2) change manually. OK **Caption detail** ③set/next (1) Select "Edit" Apply Cancel Caption Caption detail Cance Select the station identifier Rename (maximum 7 characters available) (ok) (1) select Favorite (2) next 1) select Set favorite 1/3 1 26-1 2 Select the item to be edited (ок D select item to edit ②next Set favorite (Caption/Favorite/Add) OK Select the number Yes Add RETURN Yes 2 next Press OK to select "Yes (add)" or "No (skip)" Favorite Caption: (4) Move cursor to a channel number Changes the station identifier Caption Add (1) select "Apply" Car Favorite: Registers channel to Favorite ОК е В Ү Yes List 2 Press OK to tune to the channel. Add: 5 Select "Apply" G Adds or skips channels Proceed to (1) select "Apply" orogram next page Apply Cancel οĸ Go back to previous page Favorite Add ②**0k** Yes To cancel the Edit Changes will be lost. Continue? Cance ୭**ok** Yes (returns to "Program (ок) (1) select (OK) Yes channel")

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

2 next

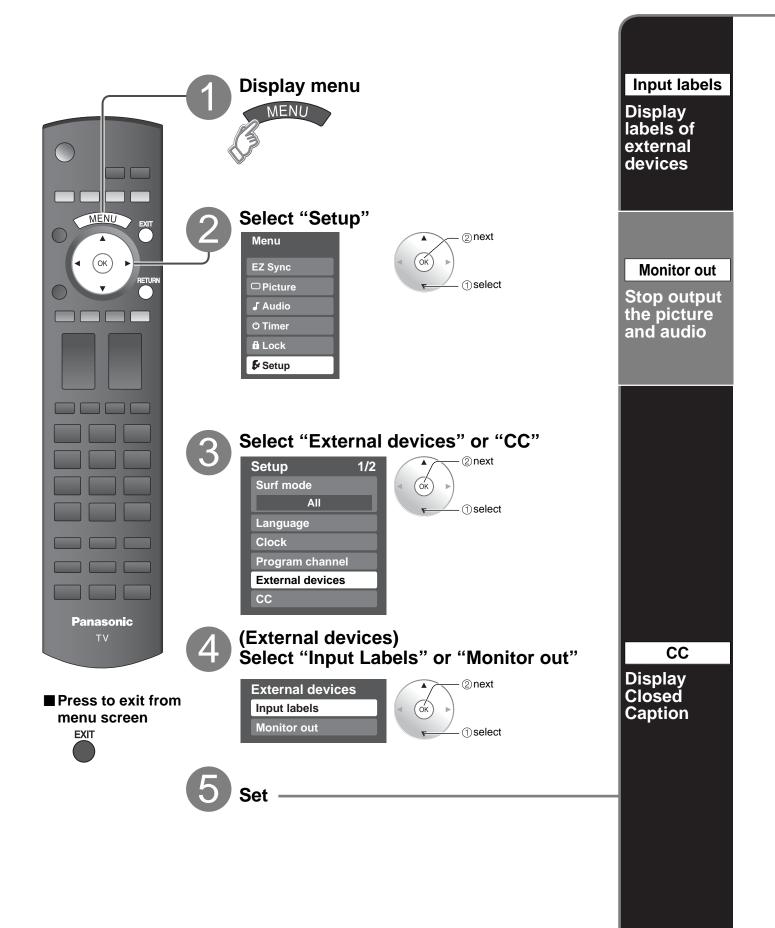
Signal meter Channel 1-1	• OK • ① change channel	If the signal is weak, check the antenna. If no problem is found, consult your local dealer.
Signal strength	② ok	Note
Current 30% =	Signal intensity	Not available if "Cable" is selected in "ANT in"
Peak level 45%		(see above). ●Effective only for digital antenna channels.

If "Lock" (p. 28) is activated and "Auto", "Manual" or "Signal meter" is selected, "Enter password," will be displayed.

(1) select "Yes"

Editing and Setting Channels

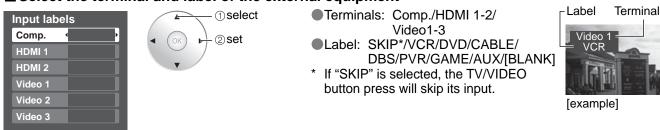
Input Labels/Monitor out/



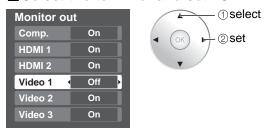
Closed Caption

Devices connected to external input terminals can be labeled for easier identification during input selection. (In selecting input mode from p. 20 2)

Select the terminal and label of the external equipment



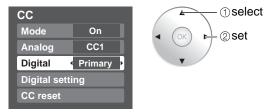
To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 24) **Select the terminal and set "Off"**



- Select "Off" to stop output of picture and audio. (Video 1/Video 2/Video 3)
- Comp./HDMI 1/HDMI 2 cannot output video signals regardless of "Monitor out" setting.
 When equipment (STB, DVD, etc.) is connected to HDMI or COMPONENT 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. 43)

Select the item and set



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

Mode	Select "On" (when not using, select "Off").
Analog	Choose the Closed Caption service of Analog broadcasting.
CC1-4:	Information related to pictures (Appears at bottom of screen)
T1-4:	Textual information (Appears over entire screen)
Digital	(The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.)
• • • • •	

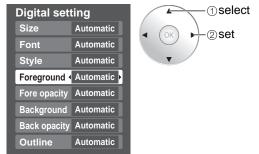
Select the setting.

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

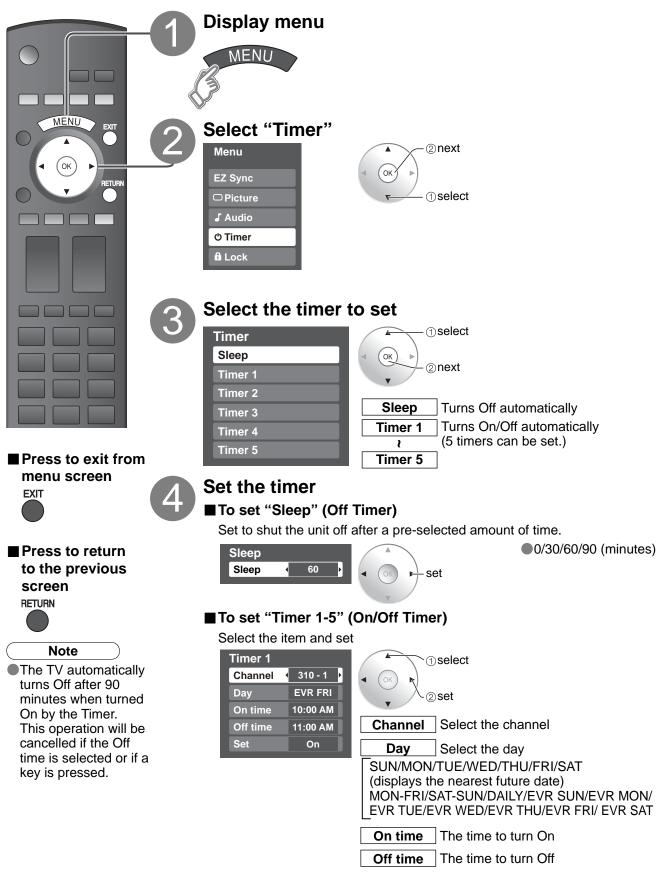
Select "CC reset" and press OK

Advanced

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. 16)
- The "Sleep" timer and "On / Off timer" will not function if "Auto power on" (p. 25) is set.

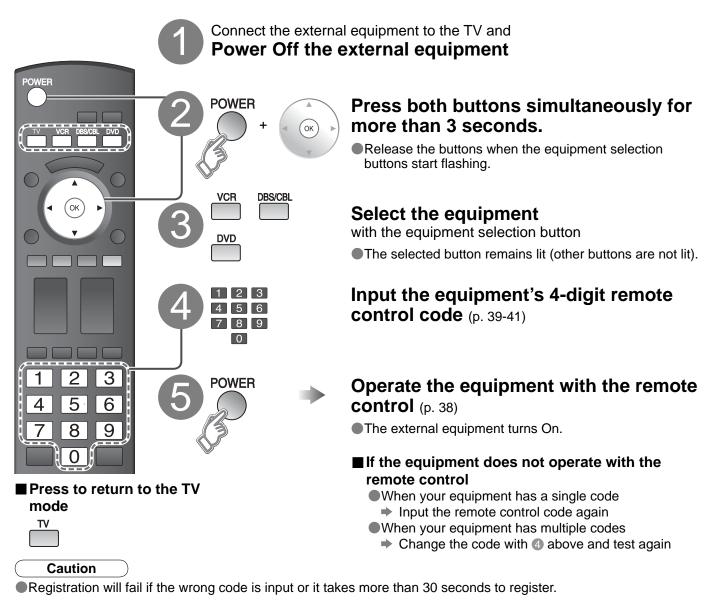


Set

Timer setting (On/Off)

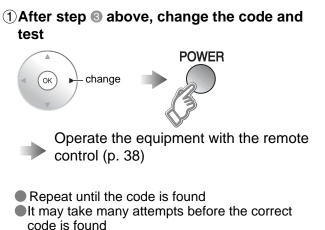
Operating Peripheral Equipment

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



To find a code not listed in the code list

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

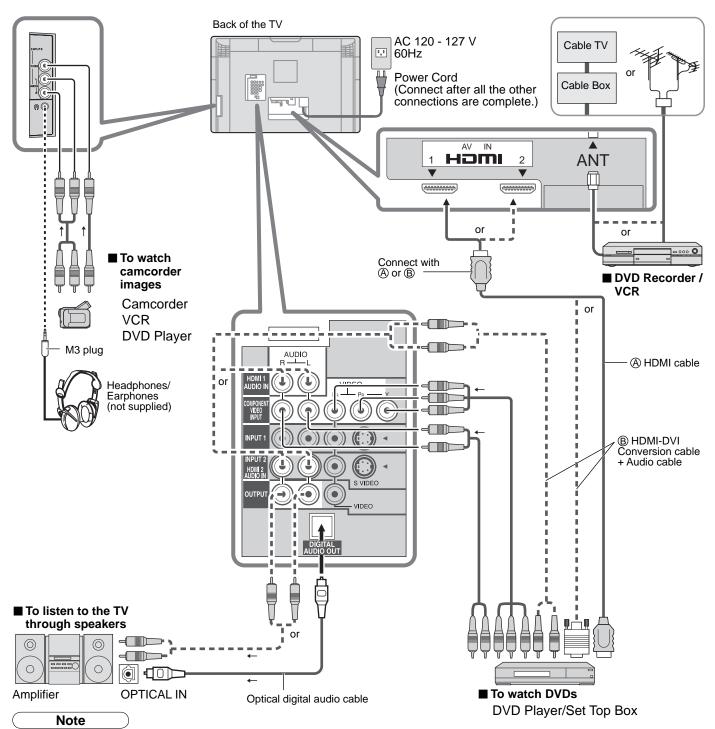


2 When the correct code is found



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 of each piece of equipment and the specifications (p. 48). For additional assistance, please visit our website at: www.panasonic.com www.panasonic.ca



- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 32) cannot be output from "OUTPUT" 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. 24, 32)
- When equipment (STB, DVD, etc.) is connected to HDMI or COMPONENT 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 OUTPUT terminals.

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 26-27 for Setup Menu settings and additional control information.

Optional HDMI and/or optical cables are not provided.

les 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. 20) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 26-27).

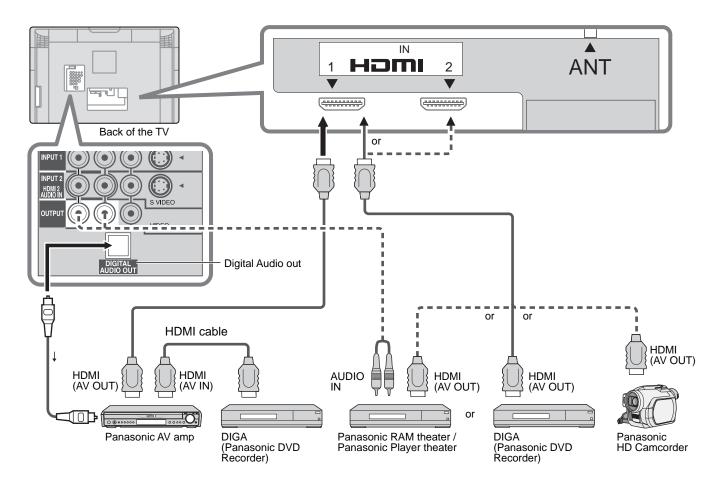
Connecting this unit to a DVD recorder and AV amp

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

For DIGA: Connect with HDMI cable

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

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.



•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. 26-27).

Note

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.)

Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.

Remote Control Operation/Code List

The following explains how to operate external devices with the remote control. Register the remote control codes (p. 35) if you want to operate an external device of another manufacturer. (p. 39-41)

Note

Operation may not be possible depending on the available memory size of the remote control.

This remote control is not designed to cover operation of all functions of all models.

Remote Control Operation List

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

	E VCR MODE DBS/CBL MODE		CBL MODE	
POWER		(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
• • •	-	Select	Select	Enter
	-	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
сн Сн У	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
+ vol -	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
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)
	-	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	-
	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward
REC	VCR Record	PVR Record *1	PVR Record *1	Record
STOP	Stop	Stop	Stop	Stop
PAUSE	Pause	Pause	Pause	Pause
	Play	Play	Play	Play

Remote Control Code List

Cable Conve Brand	Code	Brand	Code	Brand	Code	Brand	Code
A-Mark	0008, 0144	Gibralter	0003	Penney	0000	Tocom	0012
BC	0003, 0008, 0237	GMI	0883	Philips	0317, 1305	Torx	0003
ccuphase	0003	GoldStar	0144	Pioneer	0144, 0533, 0877,	Toshiba	0000
corn	0237	Hamlin	0009, 0273		1877	Tristar	0883
ction	0237	Hitachi	0003, 0008, 0009	Prism	0012	United Cable	0003, 0276
ctive	0237	Insight	0476, 0810	Pulsar	0000	US Electronics	0003, 0008, 0276
mericast	0899	Jerrold	0003, 0012, 0276,	Quasar	0000	V2	0883
rcher	0237		0476, 0810	RadioShack	0883	Videoway	0000
CC	0276	Memorex	0000	RCA	1256	Viewmaster	0883
ell South	0899	Mitsubishi	0003	Regal	0273, 0276, 0279	Vision	0883
ritish Telecom	0003	Motorola	0276, 0476, 0810,	Runco	0000	Vortex View	0883
entury	0008		1254, 1376	Samsung	0003, 0144	Zenith	0000, 0525, 0899
learmaster	0883	Multitech	0883	Scientific Atlanta	0000, 0003, 0008,		
learMax	0883	Nova Vision	0008		0012, 0237, 0477,		
ool Box	0883	Novaplex	0008		0877, 1877		
oolmax	0883	NSC	0012	Sony	1006		
irector	0476	Pace	0008, 0237, 0877,	Sprucer	0144		
osgate	0276		1877	Starcom	0003		
E	0144	Panasonic	0000, 0008, 0107,	Supercable	0276		
eneral	0003, 0012, 0276,		0144	Supermax	0883		
strument	0476, 0810	Paragon	0000, 0008, 0525	Thomson	1256		
Cable/PVR C	ombination ()					
mericast	0899	Motorola	0810, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
ieneral	0810	Pace	0237, 1877	Sony	1006		
nstrument		Pioneer	0877, 1877	Supercable	0276		
errold	0810	RCA	1256	Thomson	1256		
Satellite Rec	eiver (DBS/CBL)						
ell ExpressVu	0775	GE	0392, 0566	Motorola	0856, 0869	Samsung	1108, 1109, 1142
haparral	0216	General	0869	Netsat	0099	Cambung	1276, 1377, 1442
rossdigital	1109	Instrument	0000	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,	Houston	0775	Paysat	0724	Star Choice	0869
	1108, 1109, 1142, 1377, 1392, 1414,	HTS	0775, 1775	Philips	0099, 0722, 0724,	Star Trak	0869
	1442, 1609, 1639,	Hughes Network	0749, 1142, 1442,		0749, 0775, 0819,	Thomson	0392, 0566
	1640, 1749, 1856	Systems	1749		1076, 1142, 1442, 1749	Tivo	1142, 1442
ish Network	0775, 1005, 1505,	Innova	0099		1749	Toshiba	0749, 0790, 0819
ystem	1775	Jerrold	0869	Pioneer	1142, 1442		1285, 1749
)ishpro	0775, 1005, 1505,	JVC	0775, 1775	Primestar	0869	UltimateTV	1392, 1640
	1775	LG	1414	Proscan	0392, 0566	Uniden	0724, 0722
chostar	0775, 1005, 1505,	Magnavox	0722, 0724	RadioShack	0566, 0775, 0869	Voom	0869
	1775	McIntosh	0869	RCA	0392, 0566, 0775,	Zenith	0856, 1856
xpressvu	0775, 1775	Memorex	0724		1142, 1392, 1442		
unai	1377	Mitsubishi	0749				
DBS/PVR Co	mbination (S) ()					
lirecTV	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		1
ish Network	0775, 1505	Hughes Network	1142, 1442	RCA	1392		
System		Systems		Samsung	1442		
					·		
-Mark	0000, 0037, 0240,	Asha	0240	Carver	0035, 0081	Curtis Mathes	0000, 0035, 0060
TIVIAIN	0000, 0037, 0240, 0278	Astra	0240	CCE	0035,0081	our us matries	0162, 0240, 0278
BS	1972	Audiovox	0035, 0240	Cineral	0278		0432, 1035
dmiral	0039, 0047, 0048,	Avis	0037, 0038, 0278	Citizen	0000, 0035, 0037,	Cybernex	0240
unna	0039, 0047, 0048, 0060, 0209, 0479	Beaumark	0240	Giuzen	0209, 0240, 0278,	CyberPower	1972
dventura	0000, 0037, 0240	Bell & Howell	0000, 0035, 0039,		0479, 1278	Daewoo	0037, 0045, 0278
iko	0278		0048, 0479	Classic	0037	Dacwoo	1278
iwa	0278	Broksonic	0002, 0121, 0209,	Colortyme	0037	Daytron	0037, 0278
lba	0209, 0278	DIORSOFIL	0479, 1479	Colortyme	0035, 0045, 0060, 0278	Daytron	1972
lienware	1972	Calix	0037	Colt	0000	Denon	0042, 0081
	0039	Candle	0037,0038	Craig	0037, 0047, 0240	DirecTV	0739
llearo	10000	Januit	10001,0000				
<u> </u>		Canon	0035	Critorion	10000	Dual	10000
Ilegro merica Action merican High	0278 0035, 0081	Canon Capehart	0035	Criterion Crosley	0000	Dual Durabrand	0000 0038, 0039

FAQs, etc.

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

VCR () Brand	Code	Brand	Code	Brand	Code	Brand	Code
			0240				
Electrohome	0000, 0037, 0043, 0060, 0209, 0240	Magnin Marantz	0035, 0038, 0081	Quasar	0002, 0035, 0162, 1035	Thomson Tisonic	0060
Electrophonic	0037	Marta	0033, 0038, 0081	RadioShack	0000, 0035, 0037,	Tivo	0618, 0636, 0739
Emerald	0121, 0184	Matsui	0037, 0209	Radioonack	0047, 0048, 0162,	1100	1996
Emerex	0032	Matsushita	0035, 0162, 0081		0240	ТМК	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,	Memorex	0000, 0035, 0037,	RCA	0000, 0035, 0042,	Toshiba	0000, 0043, 0045
	0479, 1278, 1479		0039, 0162, 0047,		0045, 0048, 0060,		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, 0479, 1237		1055, 1060		1990
Fujitsu	0000	Metz	0037	Realistic	0000, 0035, 0037,	Tosonic	0278
Funai	0000, 0037, 0278	MGA	0043, 0060, 0240	_	0047, 0048, 0121,	Totevision	0037, 0240
Garrard	0000	MGN Technology	0240		0162, 0240, 0278	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
<u> </u>		Minolta	0042	Samsung	0000, 0038, 0045,	Vector	0045
Gemini	0060	Mitsubishi	0000, 0042, 0043, 0047, 0048, 0060,		0060, 0240, 0432, 0739, 1014	Vector Research	0038, 0184
Genexxa	0000, 0037, 0278		0047, 0048, 0060, 0067, 0807	Constra		Victor	0067
Go Video	0240, 0432, 0614	Matanala		Samtron	0240	Video Concepts	0045
GoldStar	0000, 0035, 0037, 0038, 0039, 0278,	Motorola	0035, 0048	Sanky	0039,0048	Videomagic	0037
	1237	MTC MTX	0000, 0240	Sansui	0000, 0002, 0067, 0209, 0240, 0479,	Videosonic Viewsonic	0000, 0240
Goodmans	0000, 0037, 0081,	Multitech	0000,0039		1479	Villain	0000
Goournans	0278	NAD	0240	Sanyo	0000, 0047, 0240,	Voodoo	1972
Gradiente	0000	NEC	0038,0067	Sanyo	0479	Wards	0000, 0060, 0033
Granada	0042,0081	Nikko	0037, 0278	Scott	0043, 0045, 0184,	Walus	0035, 0037, 0038
Grundig	0081	Nikkodo	0037, 0278	00011	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, 0203, 1237	World	0002, 0209, 0479
	0042, 0045, 0089	Optimus	0000, 0035, 0037,	Sharp	0048, 0047, 0032,	XR-1000	0000, 0035, 0240
Howard	1972		0047, 0048, 0162,		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, 0278, 0479, 1479	Siemens	0037		
Systems				Signature	0000, 0035, 0037,	ZT Group	1972
Humax	0739	Panama	0035		0048, 0060, 0479		
Hush	1972	Panasonic	0000, 0035, 0162,	Singer	0037, 0240		
Hytek	0000, 0047		0225, 0614, 0616, 1035, 1062, 1244	Sonic Blue	0614,0616		
IBUYPOWER	1972	Deserves		Sony	0000, 0032, 0033, 0035, 0047, 0067,		
ITT Nokia	0240	Penney	0000, 0035, 0037, 0038, 0042, 0047,		0636, 1232, 1972		
Janeil	0240		0067, 0081, 0162,	Coundrates			
Jensen	0067		0240, 1035, 1237	Soundmaster	0000		
JVC	0067	Pontov	0042	Stack 9	1972 0042		
KEC	,	Pentax	0042	STS SV/2000			
Kenwood Kodak	0038, 0067 0035, 0037	Philco	0000, 0035, 0081, 0209, 0479	SV2000 SVA	0000		
KTV	0035, 0037	Philips	0000, 0035, 0048,	Sylvania	0000, 0035, 0043,		
LG	0037, 0038, 0240		0045, 0081, 0162,	Sylvallia	0081, 1781		
Linksys	1972		0209, 0616, 0618,	Symphonic	0000, 0002, 0240		
Lloyd's	0000, 0038, 0240		0739	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	Ŭ	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,	Pulser	0240	Tevion	0479		
	0240, 0618, 1781						

	mbination (V) (Duoud		Duoud		Duand	Carla
Brand	Code	Brand	Code	Brand	Code	Brand	Code
lughes Network	0739	Philips	0739				
ystems		Samsung	0739				
PVR (V) ()		_				
BS	1972	Hughes Network	0739	Northgate	1972	Tagar Systems	1972
lienware	1972	Systems		Panasonic	0616	Tivo	0618, 0636, 073
SyberPower	1972	Humax	0739	Philips	0618, 0739	Toshiba	1008, 1972, 199
Dell	1972	Hush	1972	RCA	0880	Touch	1972
)irecTV	0739	IBUYPOWER	1972	ReplayTV	0614, 0616	Viewsonic	1972
Sateway	1972	Linksys	1972	Samsung	0739	Voodoo	1972
lewlett Packard	1972	Media Center PC	1972	Sonic Blue	0614, 0616	ZT Group	1972
loward	1972	Microsoft	1972	Sony	0636, 1972		
Computers		Mind	1972	Stack 9	1972		
IP	1972	Niveus Media	1972	Systemax	1972		
DVD (🛅)							
BD LAB	0503, 0539	Funai	0675, 1268	Minato	0752	Samsung	0490, 0573, 074
Aiwa	0641	GE	0522, 0815	Mintek	0839	2 annoan ig	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
1	1056, 1061	Grundig	0539	Oritron	0651	p	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 Sony	0573.0869
Blue Sky	0695	Insignia	1268		1490, 1762, 2006,		0533, 0864, 103
Brandt	0651	Integra	0571,0627		2016, 2026, 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
abs			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, 1154
,	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							
nov Digital			0744	Dianaar	0621	Culuonia	0675
pex Digital	1056	LG	0741	Pioneer	0631	Sylvania	0675
CyberHome	1129	Magnavox	0646, 0675	RCA	0522	Zenith	0741
unai Go Video	0675 0741	Panasonic	0490, 2006, 2016, 2026	Samsung	0490		
	111//11		2020	Sharp	0675		

FAQs, etc.

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 29)

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.
Х	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	ViewableBlocked	Not Rated.
	TV-Y	ViewableBlocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
Youth	Youth TV-Y7 FV Blocked		Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
	TV-G	ViewableBlocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	 D,L,S,V (all selected) Any combination of D, L, S, V 	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
Guidance	TV-14	 D,L,S,V (all selected) Any combination of D, L, S, V 	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	 L,S,V (all selected) Any combination of L, S, V 	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

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

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

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

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

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

Caution

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

- Emergency Bulletins (Such as EAS messages, weather warnings and others)
- Locally originated programming News Political Public Service Announcements Religious Sports Weather

Technical Information

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.

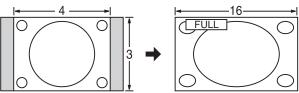
Aspect Ratio

JUST

Lets you choose the aspect depending on the format of the received signal and your preference. (p. 19) (e.g.: in case of 4:3 image)

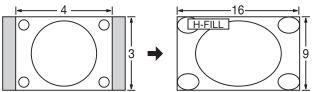
9





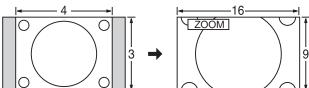
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

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)

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 ③ V-size: Vertical size adjustment





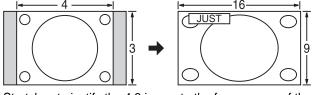






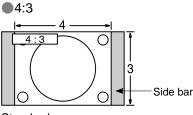
Ratings List for Lock

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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, 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.

To reset the aspect ratio



Technical Information (Continued)

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 OUTPUT 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.

EZ Sync™ "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), 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.

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" or "HDMI 2 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".
- 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 next page.

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		*

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 (default): 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. Customizes each item according to your taste.

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 a weak detergent solution 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 LCD TV.
- If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Pedestal

Cleaning

Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of 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.)

Power cord plug

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

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FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem. If problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 50-51)

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

White spots or shadow images (noise)





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

Interference or frozen digital channels (intermittent sound)



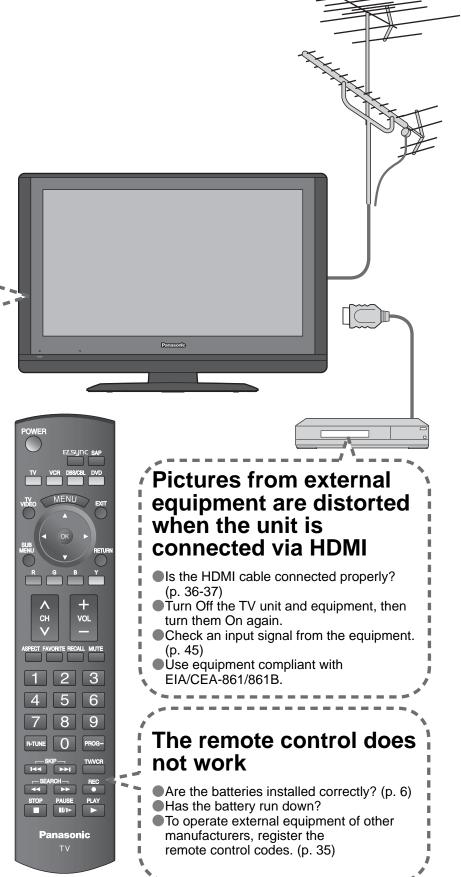
 Change the direction of antenna for digital channels.
 Check "Signal meter" (p. 31). If the signal is weak, check the antenna and consult your local dealer.

II.

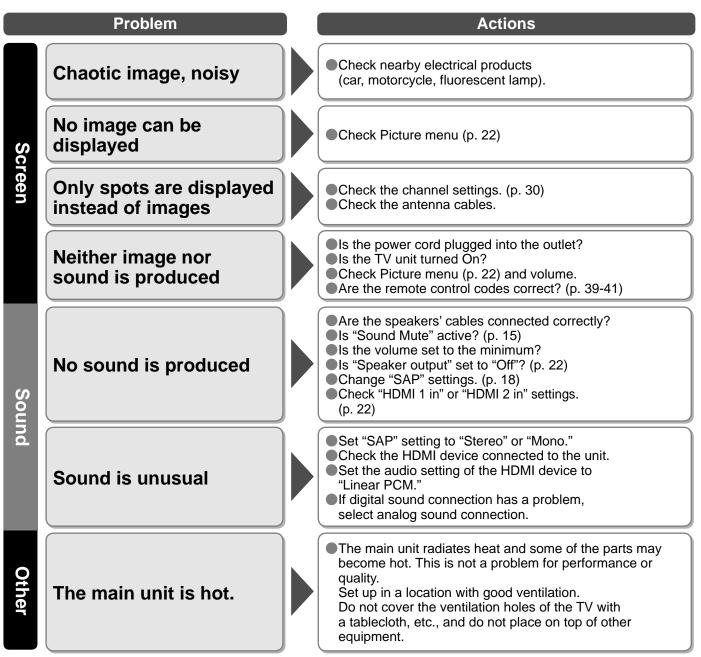
The LCD panel moves slightly when it is pushed with a finger A clattered sound might be heard

This is not a malfunction.

There is some looseness around the panel to prevent the damage to the panel.



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).



Specifications

		TC-26LX70	TC-32LX70			
Powe	er Source	AC 120 - 127 V, 60 Hz				
Powe	Average use Maximum Current Standby condition	116 W 2.1 A 0.1 W	132 W 2.3 A 0.1 W			
°r Co	Aspect Ratio	16:9				
onsu	Visible screen size	26.0 " DIAGONAL (66.1 cm DIAGONAL)	31.5 " DIAGONAL (80.0 cm DIAGONAL)			
Power Consumption	(W × H × Diagonal)	22.7 " × 12.8 " × 26.0 " (576 mm × 324 mm × 661 mm)	27.5 " × 15.4 " × 31.5 " (698 mm × 392 mm × 800 mm)			
-	(No. of pixels)	1,049,088 (1,366 (W) × 768(H)) [4,098 >	× 768 dots]			
S	Speaker	1 way 2 speakers				
Sound	Audio Output	20 W (10 W × 2) (10 % THD)				
0	Headphones	M3 (3.5 mm) Jack × 1				
Char ATSC	nnel Capability- C/NTSC (Digital/Analog)	VHF/ UHF: 2-69, CATV: 1-135				
Oper	ating Conditions	Temperature: 32 °F – 95 °F (0 °C – 35°C) Humidity: 20 % – 80 % RH (non-cond) lensing)			
	INPUT 1-2	VIDEO: RCA PIN Type × 1 1.0 V[p S VIDEO: Mini DIN 4-pin Y: 1.0 V[p AUDIO L - R: RCA PIN Type × 2 0.5 V [n	$p = p = (75 \Omega)$ C: 0.286 V [p-p] (75 Ω)			
Connection Terminals	INPUT 3	VIDEO: RCA PIN Type x 1 1.0 V [p-p] (75 Ω) AUDIO L - R: RCA PIN Type x 2 0.5 V [rms]				
	COMPONENT VIDEO INPUT	Y:1.0 V [p-p] (including synchronization)PB, PR: ± 0.35 V [p-p]AUDIO L-R:RCA PIN Type × 20.5 V [rms]				
erminal	HDMI 1-2 AUDIO IN	TYPE A Connector × 2 This TV supports "HDAVI Control 2" function. AUDIO L - R: RCA PIN Type × 2 0.5 V [rms]				
0	Ουτρυτ	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L - R: RCA PIN Type × 1 0.5 V [rms]				
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic				
FEAT	TURES	3D Y/C Digital Comb Filter, CLOSED CAPTIC HDMI (HDAVI Control 2) Vesa compatible	DN, V-Chip			
Dimensions (W × H × D)	Including TV stand	25.9 " × 20.3 " × 9.4 " (657 mm × 515 mm × 239 mm)	31.1 " × 23.3 " × 9.4 " (791 mm × 592 mm × 239 mm)			
nsions H × D)	TV Set only	25.9 " × 18.4 " × 4.6 " (657 mm × 468 mm × 117 mm)	31.1 " × 21.5 " × 4.6 " (791 mm × 545 mm × 117 mm)			
Mass	3	31.1 lb. (14.0 ^k g) NET	36.7 lb. (16.5 ^k g) NET			
		[TC-26LX70]	[TC-32LX70]			
		20.3 " (515 mm) 18.4 " (468 mm) 18.4 " (468 mm) 18.4 " (468 mm)	23.3." (592 mm) 21.5." (545 mm) 21.5." (545 mm)			
	Note	17.3 " (440 mm) 9.4 " (239 mm)	17.3 " (440 mm) 9.4 " (239 mm)			

Note

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

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 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	T (ONE) TEAR	T (ONE) TEAR	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 non-expanded 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.

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

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

Customer Services Directory

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

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-211-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 Services 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)

tion and mornation assistance, please contact.		
r 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 <u>www.panasonic.ca</u>: 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.

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

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