### **Quick Start Guide** (See page 6)

### Guía de inicio rápido (vea la página 6)

### **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.

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

787-750-4300

or visit us at www.panasonic.com For assistance (Canada), please call:

1-800-561-5505 or visit us at www.panasonic.ca

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787-750-4300

ó visítenos en www.panasonic.com



$\square$	English	
$\left( \right)$	Español	

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

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







TQB2AA0782

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





### Contents

### Please read before using the unit

	Safety	Precautions	
_	Guicty		

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Basic Connection 9
● Identifying Controls
First Time Setup

### Enjoy your TV! **Basic Features**

Watching TV     TV     18	3
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### **Advanced Features**

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Advanced



### FAQs, etc.

3

## **Safety Precautions**



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

- When the power cord or plug is damaged or frayed. а
- If liquid has been spilled into the LCD TV. b.
- If the LCD TV has been exposed to rain or water. C. d.
  - If the LCD TV does not operate normally by following the operating instructions. TV to normal operation.
- If the LCD TV has been dropped or the cabinet has been damaged. e.
- f When the LCD TV exhibits a distinct change in performance - this indicates a need for service.
- hazards.
- MOISTURE, DRIPPING OR SPLASHING, (INCLUDING ON SHELVES ABOVE, ETC.). AWAY FROM YOUNG CHILDREN.
- CREATING THE POTENTIAL RISK OF SUFFOCATION.
- 25) CAUTION: USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.
- FQUIVALENT 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 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

information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

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.



apers with the appliance.

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

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

### 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

23) WARNING: SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED. KEEP SMALL PARTS

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

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.

26) CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR

### 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.)

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

### FCC STATEMENT

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

## **Accessories/Optional Accessory**

Check you have all the items shown.



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:



Disconnect all the cables from the TV.



Remove the TV-Stand.

A Remove four screws

<sup>®</sup> Pull out the TV-Stand

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.

soft cloth

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** 

\_---- O

### 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<sup>™</sup>).

• 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.









Note

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



Ц°O

VCR

Connecting Antenna (To watch TV)

## **Basic Connection** (Continued)

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









other TV monitor.

### **Basic Connection** (Continued)

### Example 3 Connecting DVD recorder (VCR) and satellite receiver





Connect in the same way as on p. 11.

To use HDMI terminals HDMI -----AV IN **DVD Recorder** 0 and sound. nne | sa ■ To use COMPONENT terminals act DV AUDIO white white IN re red red - 000 O record eceiver **DVD Recorder** Y green green COMPONENT VIDEO IN Φ blue blue red red ■To use COMPOSITE terminals yellow vellow VCR COMPOSITE white white R 0 red red **D D** tellite ■ To use S VIDEO terminals re S VIDEO IN VCR and eceiver VCR AUDIO white white IN red red • The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video or Video cable.



## **Basic Connection** (Continued)

**Connecting Home Theater and DVD recorder** 

Example 4

### TV **Home Theater DVD** recorder **To connect HDMI terminals** Back of the TV DIGITAL AUDIO IN AV IN HDMI нэті 2 AV OUT HDMI ····· Home Theater AV IN (AV amp) or Note It is recommended that you use Panasonic's HDMI cable. (P.26) Home theater Home theater When Using the COMPONENT (DIGITAL AUDIO IN) (HDMI AV OUT) /When listening to VIDEO OUT terminals or the S VIDEO OUT terminal, refer to p.13 TV audio [ATSC only] "To use COMPONENT terminals" or "To use S VIDEO terminals". If you connect RAM theater or Player theater with HDMI cable, use audio HDMI cable instead of the optical digital AV OUT **DVD Recorder** audio cable. (see p.37)



## **Identifying Controls**

# Quick Start Guide

 $\bullet \bullet$ Identifying Controls Basic Connection

## **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".







## 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)





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.

### ■ Press ASPECT to cycle through the aspect modes. (p. 43)

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

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

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

## 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)

Now you can operate the selected equipment with the TV's remote

• For details, see the manual of the equipment or ask your local dealer.

## 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	Menu list						
Menu		Item	Adjustments/Configurations (alternatives)				
EZ Sync	DVI Hor HD Spe	D recorder, ne theater, camcorder, eaker output	[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 remote control. ⇒ <sup>EZSUNC</sup> (p. 21)				
	Normal		Resets all picture adjustments to factory default settings except for "Other adjust" (Set/No)	Normal Set			
	Picture mode		Basic picture mode (Vivid/Standard/Cinema/Custom) (p. 45)	Picture mode Vivid			
	Back light		Adjusts luminance of the back light.	Back light +20			
	Picture, Brightness, Color, Tint, Sharpness		Adjusts color, brightness, etc. for each picture mode to suit your taste       Picture +20         Brightness       0         Color       0	Tint     0       Sharpness     0			
	Col	or temp.	Selects level of warm colors (red) and cool colors (blue) (Cool/Normal/Warm)	Color temp. Cool			
Pic	Col	or mgmt.	On: Enhances green and blue color reproduction, especially outdoor scenes. (On/Off)	Color mgmt. On			
ture	Al p	picture	Controls dark areas without affecting the black level or brightness in the overall picture (On/Off)	Al picture On			
(D	Zoo	om adjust	Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 43)	Zoom adjust			
		Video NR	Reduces noise, commonly called snow. Leave it off when receiving a strong signal. (Off/On)	Video NR Off			
	ot	3D Y/C filter	Minimizes noise and cross-color in the picture. (On/Off)	3D Y/C filter Off			
	her adju	Color matrix	<ul> <li>Selects image resolution of component-connected devices (HD/SD)</li> <li>SD: Standard Definition HD: High Definition</li> <li>Only 480p signal accepted; regular TV (NTSC) is not available.</li> </ul>	Color matrix SD			
	st	MPEG NR	Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)	MPEG NR Off			
		Black level	Selects Dark or Light. Valid only for external input signals. (Dark/Light)	Black level Light			
	Normal		Resets Bass, Treble and Balance adjustments to factory default settings. (Set/No)	Normal Set			
	Bass		Increases or decreases the bass response.	Bass +4			
	Treble		Increases or decreases the treble response.	Treble 0			
	Bal	ance	Emphasizes the left / right speaker volume.	Balance 0			
Auc		Al sound	Equalizes overall volume levels across all channels and external inputs. (On/Off)	Al sound On			
lio	ę	Surround	Enhances audio response when listening to stereo. (On/Off)	Surround Off			
	her ad	Speaker output	Switches to "Off" when using external speakers (On/Off) <ul> <li>"AI sound", "Surround", and "Audio leveler" do not work if "Off" is selected</li> </ul>	Speaker output On			
	HDMI 1 in HDMI 2 in		Selects according to the signal when HDMI is connected (Auto/Digital/Analog) <ul> <li>Auto: Automatically selects Analog / Digital signal</li> </ul>	HDMI1 inAutoHDMI2 inAuto			
	Audio leveler		Minimizes volume disparity after switching to external inputs	Audio leveler 0			
Timer	Sle	ep, Timer 1-5	The TV can automatically turn On/Off at the designated date and time (p. 34)	Sleep 60			
Lock			Locks the channels and programs (p. 28)				

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

(example: Picture menu)

Advanced

## **How to Use Menu Functions**

Various menus allow you to make settings for the picture sound and

### ■Monu list

### (Continued)

various menus allow you to make settings for th	E picture, souriu, and <b>Eivie</b>	11U 115L		
other functions so that you can enjoy watching T	TV in the way best Men	u Item	Adjustments/Configurations (alternatives)	
suited for you.		Surf mode	Sets the mode to select the channel with Channel up/down button (Favorite./All) <ul> <li>Favorite.: Only channels registered as FAVORITE (p. 31)</li> </ul>	Surf mode All
Display menu	u	Language	Selects the screen menu language (p. 16)	Language
MENU		Clock	Adjusts the clock (p. 16)	Clock
		Program channel	Sets channels (p. 30)	Program channel
Displays the function (varies according)	tions that can be set to the input signal)	떠 X Input labels	Selects the terminal and label of the external equipment (p. 32)	
RETURN 2 Select "Setur Menu EZ Sync	<b>p''</b>	nal devices	<b>[Comp./HDMI 1/HDMI 2/Video 1/Video 2/Video 3]</b> To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 32) <b>(On/Off)</b>	
	T (1) select	cc	Displays subtitles (Closed Caption) (p. 32)	CC
© Timer		EZ Sync	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
fi Lock		Power off link	Sets "Power off link" of HDMI connection equipment (p. 26) (Set/No)	Power off link Set
► Setup	S	Power on link	Sets "Power on link" of HDMI connection equipment (p. 26) (Set/No)	Power on link Set
	≥tup	Default speakers	Selects the default speakers (p. 26) (TV/Theater)	Default speakers TV
Select the item		Auto power on	<ul> <li>Turns TV On automatically when the cable box or a connected device is turned On (No/Set)</li> <li>The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 34)</li> </ul>	Auto power on No
Press to exit from menu screen EXIT Clock	1/2 OK () select	이 Signal shut-off	<ul> <li>To conserve energy, the TV automatically turns off when NO SIGNAL continues more than 10 minutes. (Set/No)</li> <li>Note <ul> <li>Not in use when setting "Auto power on", "On/Off Timer", "Lock", or Digital channel.</li> <li>"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".</li> <li>The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.</li> </ul> </li> </ul>	No signal shut-off Set
Program channel Press to return to the previous screen RETURN		No action shut-off	<ul> <li>To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues more than 3 hours. (No/Set)</li> <li>Note</li> <li>Not in use when setting "Auto power on" or "On/Off Timer".</li> <li>"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".</li> <li>The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.</li> </ul>	No action shut-off No
Display Sub	Мели	Power Save	Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room. (Standard/Saving)	Power Save Standard
		About	Displays TV version and software license.	About
MENU		Reset	Performing Reset will clear all items set with Setup, such as channel settings. (p. 30)	Reset
Select the ite	em ———■Su	b menu list		
Setup SUB MEN	U (1) select Men	u Item	Adjustments/Configurations (alternatives)	
Sub (OK) Surf mode ( All		Surf mode	Sets the mode to select the channel with Channel up/down button (Favorite./All)	
Set favorite		Set favorite	Sets favorite channels. (p. 19)	
CC Off		· CC	Displays Closed Caption. (p. 32-33)	
Caption select		Caption select	Changes the station identifier. (p. 30-31)	
	C	Signal meter	Checks the signal strength if interference or freezing occurs on a digital image. (p. 30-31)	

## EZ Sync<sup>™</sup> "HDAVI Control<sup>™</sup>"\*



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

ΕZ Sync™ "HDAVI Control<sup>™</sup>"

## Lock

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



28

OK)



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

When placing a block on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also be blocked.

Lock

Advanced

## **Editing and Setting Channels**

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





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

## Input Labels/Monitor out/

## **Closed Caption**

(1) select

select

②set

select

⊕select

⊘set

⊘ set

⊘set







To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 24)

- 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

Mode	Select "On" (when not using, select "Off").
Analog	(Choose the Closed Caption service of Analog
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"

• 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.)

## **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.



**On time** The time to turn On **Off time** The time to turn Off

Set Timer setting (On/Off)

## **Operating Peripheral Equipment**

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



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



Repeat until the code is found It may take many attempts before the correct code is found

Connect the external equipment to the TV and Power Off the external equipment



### Press both buttons simultaneously for more than 3 seconds.

Release the buttons when the equipment selection buttons start flashing.

### Select the equipment

with the equipment selection button The selected button remains lit (other buttons are not lit).

### Input the equipment's 4-digit remote control code (p. 39-41)

### Operate the equipment with the remote control (p. 38)

• The external equipment turns On.

### If the equipment does not operate with the remote control

- When your equipment has a single code ➡ Input the remote control code again
- When your equipment has multiple codes
- Change the code with ④ above and test again

### To find a code not listed in the code list

(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

Back of the TV AC 120 - 127 V 60Hz Cable TV or Power Cord Cable Box (Connect after all the other connections are complete.) 00 нэті ANT 2 or or ■ To watch Connect with camcorder (A) or (B) DVD Recorder / images VCR Camcorder or  $\mathbb{N}$ VCR **DVD** Player M3 plug AUDIC A HDMI cable HDMI 1 AUDIO IN Headphones/ **-( ∭**∥) Earphones -COMPONE VIDEO INPUT (not supplied) B HDMI-DVI Conversion cable + Audio cable (•)  $\mathbf{O}$ ļ To listen to the TV through speakers or **OPTICAL IN** To watch DVDs Amplifier Optical digital audio cable **DVD Player/Set Top Box** Note

• 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.

### Note

HDMI 1 is recommended.

connection, confirm the HDMI control functions (p. 26-27).

### ■ Connecting this unit to a DVD recorder and AV amp

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



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

### Setting of this unit after connection

After making connections as shown above, set "EZ Sync" (under "EZ Sync setting") to "On" using the Setup menu. (p. 26-27).

### Note

- respective operating instruction manuals.
- unit, the system switches to 2CH audio.

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

### EZ Sync<sup>™</sup> Connections

of \-	If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off then On
al	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.

When connecting to HDMI 2, set the input mode to HDMI 2 (p. 20) initially before connecting to HDMI 2. After

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

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

## **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)



• 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.

		DBS/CBL MODE			
		(DBS)	(CBL)		
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	
B	-	Blue	С	Blue	
Y	-	Yellow	D	Yellow	
<ul> <li>н</li> <li>н</li> </ul>	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	Play	

Remote	Control	Code	List
--------	---------	------	------

Cable Conve	rter ( DBS/CBL )						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
A-Mark	0008 0144	Gibralter	0003	Penney	0000	Tocom	0012
ABC	0003, 0008, 0237	GMI	0883	Philips	0317. 1305	Torx	0003
Accuphase	0003	GoldStar	0144	Pioneer	0144, 0533, 0877,	Toshiba	0000
Acorn	0237	Hamlin	0009, 0273		1877	Tristar	0883
Action	0237	Hitachi	0003, 0008, 0009	Prism	0012	United Cable	0003, 0276
Active	0237	Insight	0476, 0810	Pulsar	0000	US Electronics	0003, 0008, 0276
Americast	0899	Jerrold	0003, 0012, 0276,	Quasar	0000	V2	0883
Archer	0237		0476, 0810	RadioShack	0883	Videoway	0000
BCC	0276	Memorex	0000	RCA	1256	Viewmaster	0883
Bell South	0899	Mitsubishi	0003	Regal	0273, 0276, 0279	Vision	0883
British Telecom	0003	Motorola	0276, 0476, 0810,	Runco	0000	Vortex View	0883
Century	0008		1254, 1376	Samsung	0003, 0144	Zenith	0000, 0525, 0899
Clearmaster	0883	Multitech	0883	Scientific Atlanta	0000, 0003, 0008,		
	0883	Nova vision	0008		0877. 1877		
Cool Box	0883	Novaplex	0008	Conv	1006		
Director	0476	Raco	0008 0237 0877	Soriy	0144		
Eosgato	0470	Face	1877	Starcom	0003		
GE	0270	Panasonic	0000 0008 0107	Supercable	0276		
General	0003 0012 0276	i unusonio	0144	Supermax	0883		
Instrument	0476, 0810	Paragon	0000,0008,0525	Thomson	1256		
Cable/PVR-C	ombination (		1.2000, 0000, 0020				
Amorioact		Motorolo	0810 1276	Sciontific Atlanta	0977 1077	Zonith	0800
Gonoral	0810	Raco	0227 1977	Sonv	1006	Zeniuli	10099
Instrument	0010	Pioneer	0237, 1077	Supercable	0276		
lerrold	0810	RCA	1256	Thomson	1256	<u>.</u>	
Satallita Baa		NOA	1250	11101113011	1250		
Satemite Rec		05	0000 0500	Matanala	0050 0000	0	1100 1100 1110
Bell Expressvu	0775	General	0392, 0566	Notorola	0856, 0869	Samsung	1276 1377 1442
Croppedigital	1100	Instrument	0869	Netsat	0099		1609
DirecTV	0000 0247 0302	COL	0775 1775		0724	SKV	0856 0000
DIECTV	0566, 0639, 0724,	Hitachi	0770 0810 1250	Panasonic	0724	Sonv	0630, 0099
	0749, 0819, 1076,	Houston	0775	Paysat	0724	Star Choice	0869
	1108, 1109, 1142,	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,	Tivo	1142, 1442
Dish Network	0775, 1005, 1505,	Innova	0099		1749	Toshiba	0749, 0790, 0819,
System	1775	Jerrold	0869	Pioneer	1142, 1442		1285, 1749
Dishpro	0775, 1005, 1505,	JVC	0775, 1775	Primestar	0869	UltimateTV	1392, 1640
	1775	LG	1414	Proscan	0392, 0566	Uniden	0724, 0722
Echostar	0775, 1005, 1505,	Magnavox	0722, 0724	RadioShack	0566, 0775, 0869	Voom	0869
	1775	McIntosh	0869	RCA	0392, 0566, 0775,	Zenith	0856, 1856
Expressvu	0775, 1775	Memorex	0724		1142, 1392, 1442		
Funai	1377	Mitsubishi	0749				
DBS/PVR Co	mbination (S) (						
DirecTV	0099, 0392, 0639,	Dishpro	0775, 1505	Motorola	0869	Sony	0639, 1640
	1076, 1142, 1377,	Echostar	0775, 1505	Philips	1142, 1442	Star Choice	0869
	1392, 1442, 1640	Expressvu	0775	Proscan	0392		
Dish Network	0775, 1505	Hughes Network	1142, 1442	RCA	1392		
System		Systems		Samsung	1442		
A-Mark	0000, 0037, 0240,	Asha	0240	Carver	0035, 0081	Curtis Mathes	0000, 0035, 0060,
	0278	Astra	0035, 0240	CCE	0278		0162, 0240, 0278,
ABS	1972	Audiovox	0037, 0038, 0278	Cineral	0278		0432, 1035
Admiral	0039, 0047, 0048,	Avis	0000	Citizen	0000, 0035, 0037,	Cybernex	0240
	0060, 0209, 0479	Beaumark	0240		0209, 0240, 0278,	CyberPower	1972
Adventura	0000, 0037, 0240	Bell & Howell	0000, 0035, 0039,		0473, 1270	Daewoo	0037, 0045, 0278,
Aiko	0278		0048, 0479	Classic	0037	-	12/8
Aiwa	0000, 0037	Broksonic	0002, 0121, 0209,	Colortyme	0035, 0045, 0060,	Daytron	0037, 0278
Alba	0209, 0278	Calin	0007	Call	0270	Dell	19/2
Allegra	1972	Calix	0037	Colt	0000	Denon Direct) (	0042,0081
Amorico Action	0039	Canon	0037,0038	Critorion	0007,0047,0240		0000
American High	0270	Canobart	0035	Crosley	0000 0035 0091	Dual	0000
	0000	Carrera	0240	Crown	0278	Dynatech	0000,0009
741100100	10000	Gancia	0240	SIGWII	10210	Dynatoon	0000, 0240

## Remote Control Operation/Code List (Continued)

### ■ Remote Control Code List

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Electrohome	0000, 0037, 0043.	Magnin	0240	Quasar	0002, 0035, 0162.	Thomson	0060
	0060, 0209, 0240	Marantz	0035, 0038, 0081		1035	Tisonic	0278
Electrophonic	0037	Marta	0037	RadioShack	0000, 0035, 0037,	Tivo	0618, 0636, 0739,
Emerald	0121, 0184	Matsui	0037, 0209		0047, 0048, 0162,		1996
Emerex	0032	Matsushita	0035, 0162, 0081		0240	TMK	0000, 0240
Emerson	0000, 0002, 0037,	Media Center PC	1972	Radix	0037	TNIX	0037
	0043, 0121, 0184,	MEI	0035	Randex	0037	Tocom	0240
	0209, 0240, 0278,	Memorex	0000, 0035, 0037,	RCA	0000, 0035, 0042,	Toshiba	0000, 0043, 0045,
	0470, 1270, 1470		0039, 0162, 0047,		0045, 0048, 0060,		0209, 0240, 0845,
Fisher	0000, 0039, 0047		0278 0479 1237		10240, 0607, 0660,		1996
Fuji	0033, 0035				1000, 1000		1000
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		0102, 0240, 0278	Touch	1972
Gateway	1972	Microsoft	1972	ReplayTV	0614, 0616	Trix	0037
GE	0000, 0035, 0048,	Midland	0240	Ricavision	1972	Ultra	0045, 0278
	10060, 0240, 0807,	Mind	1972	Runco	0039	Unitech	0240
-	1000, 1000	Minolta	0042	Samsung	0000, 0038, 0045,	Vector	0045
Gemini	0060	Mitsubishi	0000, 0042, 0043,		0060, 0240, 0432,	Vector Research	0038, 0184
Genexxa	0000, 0037, 0278		0067 0807	-		Victor	0067
Go Video	0240, 0432, 0614			Samtron	0240	Video Concepts	0045
GoldStar	0000, 0035, 0037,	Motorola	0035, 0048	Sanky	0039, 0048	Videomagic	0037
	1237	MTC	0000, 0240	Sansui	0000, 0002, 0067,	Videosonic	0000, 0240
	1201	MTX	0000	-	1479	Viewsonic	1972
Goodmans	0000, 0037, 0081,	Multitech	0000, 0039		1475	Villain	0000
	0278	NAD	0240	Sanyo	0000, 0047, 0240,	Voodoo	1972
Gradiente	0000	NEC	0038, 0067		0479	Wards	0000, 0060, 0033,
Granada	0042, 0081	Nikko	0037, 0278	Scott	0043, 0045, 0184,		10035, 0037, 0036, 0042, 0043, 0045
Grundig	0081	Nikkodo	0037, 0278		0121		0047, 0048, 0081,
Harley Davidson	0000	Nishi	0240	Sears	0000, 0033, 0035,		0240, 0479
Harman/Kardon	0038, 0081	Niveus Media	1972		0037, 0039, 0042,	\\/\c;te	0000 0000 0070
Hewlett Packard	1972	Noblex	0240		0048, 0060, 0067,	Westinghouse	0000, 0209, 0278,
HI-Q	0000, 0035, 0047	Northgate	1972		0162, 0209, 1237	Westinghouse	0479
Hitachi	0000, 0035, 0037,	Olympus	0035, 0162				0002, 0209, 0479
	0042, 0045, 0069	Optimus	0000, 0035, 0037,	Sharp	0048, 0047, 0032,	XR-1000	0000, 0035, 0240
Howard	1972		10047, 0048, 0162, 0240, 0432, 1062		0000, 0607	Zanith	0038
	4.070			Shintom	0000, 0039, 0240	Zenith	10000, 0033, 0037, 0037, 0039, 0209, 0278
HP	1972	Orion	[0000, 0002, 0121, 0184, 0200, 0240]	Shogun	0240		0479, 1479
Hugnes Network	0042, 0739		0278, 0479, 1479	Siemens	0037	ZT Group	1072
	0700	Deneme	0005	Signature	10000, 0035, 0037, 0048, 0060, 0479	ZIGioup	1972
Humax	0739	Panama	0035	0'			
Hush	1972	Panasonic	10000, 0035, 0162, 0225, 0614, 0616	Singer	0037, 0240		
	1070		1035, 1062, 1244	Some Blue		1	
	1972	Denney	0000 0005 0007	Sony	0000, 0032, 0033,		
	0240	Penney	10000, 0035, 0037, 0038, 0042, 0047		0636, 1232, 1972		
Janen	0240		0067, 0081, 0162.	Soundmoster	0000		
Jeliseli	0007		0240, 1035, 1237	Stock 0	1072		
JVC	0007	Dontov	0042	SIGCK 9	1972		
Kopwood	0020 0007	Philos	0000 0025 0004	S13 SV/2000	0042		
Kodok	0036,0007	Philco	0209 0479	SV2000	0000		
	0000	Dhilipa	0000 0025 0040	SVA	0000 0025 0042	1	
	0000	Fillips	0045 0081 0162	Sylvallia	0081 1781		
LO	1072		0209, 0616, 0618.	Symphonic			
Linksys	0000 0020 0240	L	0739	Symphonic	1072		
	0081	Pilot	0037	Tagar Systema	1972		
Locik	0000 0240	Pionocr	0042 0067 0004	Tagar Systems	0000		
Lugik	0000, 0240	FUNCE	0162	Tatung			
	0000 0007 0040	Dolk Audio	0081	latung	0000, 0048, 0067,		
LAI	0000, 0037, 0042,	Poik Audio	0001	Topo	0000 0067	1	
M Electronic	0240	Portianu	0210	Teabrice	0000,0007		
	0000 0027 0040	Proscon	0060 1060	rechnics	0162		
waynasonic	0278 1278	Protoo	0000, 1000	Tokniko	0000 0025 0027	1	
Magnavay	0000 0025 0027	Pulsar	0030 0340 0370	Tolooordor	0240		
waynavox	0039, 0048, 0081	Pulsor	0240	Tevion	0240		
	0240, 0618, 1781		0035 0047	Thomas			

DBS/PVR Co	mbination (V) (	BS/CBL					
Brand	Code	Brand	Code	Brand	Code	Brand	Code
Hughes Network	0739	Philips	0739				
Systems		Samsung	0739	-			
PVR (V) (	)	•	•				
ABS	1072	Hughes Network	0739	Northaate	1072	Tagar Systems	1072
Alienware	1972	Systems	0733	Panasonic	0616	Tivo	0618 0636 0739
CyberPower	1972	Humax	0739	Philins	0618 0739	Toshiha	1008 1972 1996
Dell	1972	Hush	1972	RCA	0880	Touch	1972
DirecTV	0739	IBUYPOWER	1972	ReplayTV	0614 0616	Viewsonic	1972
Gateway	1972	Linksvs	1972	Samsung	0739	Voodoo	1972
Hewlett Packard	1972	Media Center PC	1972	Sonic Blue	0614.0616	ZT Group	1972
Howard	1972	Microsoft	1972	Sonv	0636, 1972		
Computers		Mind	1972	Stack 9	1972	•	
HP	1972	Niveus Media	1972	Systemax	1972		
	0503 0530	Funci	0675 1268	Minato	0752	Sameung	0400 0573 0744
	0641		0522 0815	Mintek	0732	Samsung	0820, 0899, 1044,
Alwa	0695 0899	Go Video	0573 0741 0744	Mitsubishi	1521 0521	-	1075
Alha	0672		0869, 1044, 1075	NAD	0591 0741	Sansui	0695
Alco	0790	GoldStar	0741 0869	NEC	0785 0869	Sanvo	0675 0695
Allegro	0869	Goodmans	0790	Onkvo	0503 0627 0792	Schwaiger	0752
Apex Digital	0533 0672 1020	Gradiente	0490_0651	Optimus	0571	Sharp	0630 0675 0752
, por Digital	1056, 1061	Grundia	0539	Oritron	0651		1256
Arrao	1023	Harman/Kardon	0582	Palsonic	0672	Shinsonic	0533.0839
Audiovox	0790	Hitachi	0573,0664	Panasonic	0503, 0490, 0571,	Slim Art	0784
Blue Parade	0571	Hiteker	0672	-	0703, 1362, 1462,	Sonic Blue	0573, 0869
Blue Sky	0695	Insignia	1268		1490, 1762, 2006,	Sony	0533, 0864, 1033,
Brandt	0651	Integra	0571, 0627	-	2010, 2020, 1779	-	1431, 1533
Broksonic	0695	JMB	0695	Philips	0503, 0539, 0646,	Sylvania	0675, 1268
California Audio	0490	JVC	0558, 0623, 0867,		0675, 1267, 1354	Symphonic	0675, 1268
Labs			1164	Pioneer	0525, 0571, 0631	Teac	0571, 0790
Celestial	1020	Kawasaki	0790	Polaroid	1020, 1061	Technics	0490, 0703
Centrex	0672	Kenwood	0490, 0534	Polk Audio	0539	Tevion	0651
CineVision	0869	KLH	0790, 1020	Presidian	0675	Theta Digital	0571
Clairtone	0571	Kloss	0533	Proceed	0672	Thomson	0522
Creative	0503, 0539	Koss	0651, 1061	Proscan	0522	Toshiba	0503, 0539, 0573,
CyberHome	0816, 0874, 1023,	Lasonic	0627	Qwestar	0651		0695, 1045, 1154
	1129	Lecson	1533	Radionette	0/41	Universum	0591
Daewoo	0784, 0869, 1172	LG	0591, 0741, 0869	RadioShack	05/1	Urban Concepts	0503, 0539
Denon	0490, 0634	LiteOn	1058	RCA	0522, 0571, 0790,		0839
Digitrex	0672	Loewe	0741	Declictic	0522, 1022, 1102	Venturer	0790
Disiley	0675	Magnavox	0503 0530 0646	Realistic	0752	Vamaha	0.00 0530 0545
	0521	Iviagilavox	0675 1268	Reoc	0752	Zonith	0503 0501 0741
Emerson	0521	Marantz	0503 0539 0675	Rotel	0623	201101	0869
Enterprise	0591,0073,1200	McIntosh	1533	Saha	0651	70115	0784
Entivo	0503 0539	Medion	0651	Sampo	0752	2003	10704
ESA	1268	Memorex	0695	Jumpo	10102		
Firstline	0651	Microsoft	0522	1			
DVD-Recorde			0-11				
Apex Digital	1056	LG	0741	Pioneer	0631	Sylvania	0675
CyberHome	1129	Magnavox	0646, 0675	RCA	0522	Zenith	0/41
Funal	0675	Panasonic	0490, 2006, 2016,	Samsung	0490	1	
Go Video	0/41	Dhiline	2020	Sharp	0675		
JAC	1164	Philips	0646	Sony	1033, 1431		

## **Ratings List for Lock**

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 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	<ul><li>Viewable</li><li>Blocked</li></ul>	Not Rated.
	TV-Y	<ul><li>Viewable</li><li>Blocked</li></ul>	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
Youth	TV-Y7	<ul> <li>FV Blocked</li> <li>Viewable</li> <li>Blocked</li> </ul>	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	<ul><li>Viewable</li><li>Blocked</li></ul>	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
Guidance	TV-PG	<ul> <li>D,L,S,V (all selected)</li> <li>Any combination of D, L, S, V</li> </ul>	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	<ul> <li>D,L,S,V (all selected)</li> <li>Any combination of D, L, S, V</li> </ul>	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	<ul> <li>L,S,V (all selected)</li> <li>Any combination of L, S, V</li> </ul>	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 Section 15.120(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**

- 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.
- the connected equipment. The CC mode setting of the TV will not affect the analog input.
- If CC is set On on both the connected equipment and the TV, captions from each unit will overlap.

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)

FULL



Stretches to justify the 4:3 image to the four corners of the Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture) screen (Recommended for normal TV broadcast)



Enlarges the 4:3 image horizontally to the screen's side edges. Standard 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". ①Select "Zoom adjust" on the "Picture" menu. (p. 22-23) <sup>(2)</sup>V-position: Vertical position adjustment





To reset the aspect ratio ОК

### **Closed Caption (CC)**

If analog connected equipment is used for displaying or recording, Closed Caption (CC) should be set On/Off on

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.

### Aspect Ratio







resolution other than 720p/1080i/1080p.





•• Technical Information
Ratings List for Lock

### **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 Svnc<sup>™</sup> "HDAVI Control<sup>™</sup>"

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<sup>™</sup> 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.

\* 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.

		-
	Р	

• Vivid (default):	Provides enhanced picture contrast
Standard:	Recommended for normal viewing
Cinema:	For watching movies in a darkened
Custom:	Customizes each item according to

### Maintenance

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, lint-free cloth.

- the same type until the surface is dry.
- adversely affected.

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

- Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- If water droplets get inside the unit, operating problems may result.
- in contact with articles made from rubber or PVC.

### Cleaning

- which a small amount of neutral detergent has been added and then wipe with a dry cloth. 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.)

### Input signals that can be displayed

### cture mode

st and sharpness for viewing in a well-lit room. conditions with subdued room lighting. d room. It provides a soft, film-like picture. o your taste.

### Display panel

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

• 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

### Cabinet

If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry.

• Do not allow any detergent to come into direct contact with the surface of the LCD TV.

• 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

### Pedestal

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

Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface

• 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

Maintenance
 Technical Information

## 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





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)
<ul><li>Check the channel settings. (p. 30)</li><li>Check the antenna cables.</li></ul>
<ul> <li>Is the power cord plugged into the outlet?</li> <li>Is the TV unit turned On?</li> <li>Check Picture menu (p. 22) and volume.</li> <li>Are the remote control codes correct? (p. 39-41)</li> </ul>
<ul> <li>Are the speakers' cables connected correctly?</li> <li>Is "Sound Mute" active? (p. 15)</li> <li>Is the volume set to the minimum?</li> <li>Is "Speaker output" set to "Off"? (p. 22)</li> <li>Change "SAP" settings. (p. 18)</li> <li>Check "HDMI 1 in" or "HDMI 2 in" settings. (p. 22)</li> </ul>
<ul> <li>Set "SAP" setting to "Stereo" or "Mono."</li> <li>Check the HDMI device connected to the unit.</li> <li>Set the audio setting of the HDMI device to "Linear PCM."</li> <li>If digital sound connection has a problem, select analog sound connection.</li> </ul>
<ul> <li>The main unit radiates heat and some of the parts may become hot. This is not a problem for performance or quality.</li> <li>Set up in a location with good ventilation.</li> <li>Do not cover the ventilation holes of the TV with a tablecloth, etc., and do not place on top of other equipment.</li> </ul>

Frequently Asked Questions

## **Specifications**

		TC-26LX70	TC-32LX70		
Power Source		AC 120 - 127 V, 60 Hz			
Power Consumption	Average use Maximum Current Standby condition	116 W 2.1 A 0.1 W	132 W 2.3 A 0.1 W		
	Aspect Ratio	16:9			
	Visible screen size	26.0 " DIAGONAL (66.1 cm DIAGONAL)	31.5 " DIAGONAL (80.0 cm DIAGONAL)		
	(W × H × Diagonal)	22.7 " × 12.8 " × 26.0 " (576 mm × 324 mm × 661 mm)	im) 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			
ound	Audio Output	20 W (10 W × 2) ( 10 % THD )			
	Headphones	M3 (3.5 mm) Jack × 1			
Channel Capability- ATSC/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)			
	INPUT 1-2	VIDEO:         RCA PIN Type × 1         1.0 V[p-p] (75 Ω)           S VIDEO:         Mini DIN 4-pin         Y:         1.0 V[p-p] (75 Ω)           AUDIO L - R:         RCA PIN Type × 2         0.5 V [rms]			
<b>Connection Terminals</b>	INPUT 3	VIDEO:         RCA PIN Type × 1         1.0 V [p-p] (75 Ω)           AUDIO L - R:         RCA PIN Type × 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 × 2 0.5 V [rms]			
	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]			
	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			
FEATURES		3D Y/C Digital Comb Filter, CLOSED CAPTION, V-Chip HDMI (HDAVI Control 2) Vesa compatible			
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)		
	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		31.1 lb. (14.0 <sup>k</sup> g) NET	36.7 lb. (16.5 <sup>kg</sup> ) NET		

[TC-26LX70] [TC-32LX70] 4.6 " (117 mm) 4.6 (117 mm) 25.9 " (657 mm) 31.1 " (791 mm) (515 mm) (468 mm) (mm (592 (545 aae 20.3 " ( 18.4 " ( 23.3 " 17.3 "(440 mm) 17.3 "(440 mm)

9.4 " (239 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 LCD Televisions **Limited Warrantv**

### 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)			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 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". 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.

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

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

### 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: 1-800-211-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 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	
LCD TV (25 in & under)	Carry-in service only	

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

### LIMITATIONS AND EXCLUSIONS

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

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

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

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

### WARRANTY SERVICE

For product operation and information assistance, please contact: Our Customer Care Centre: Telephone #: (905) 624-5505 1-800 #: 1-800-561-5505 Fax #: (905) 238-2360 Email link: "Customer support" on www.panasonic.ca

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

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

### Panasonic Canada Inc.

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