## Panasonic®

## Operating Instructions Digital High Definition Plasma Television Manual de instrucciones Televisor digital con pantalla de plasma de alta definición

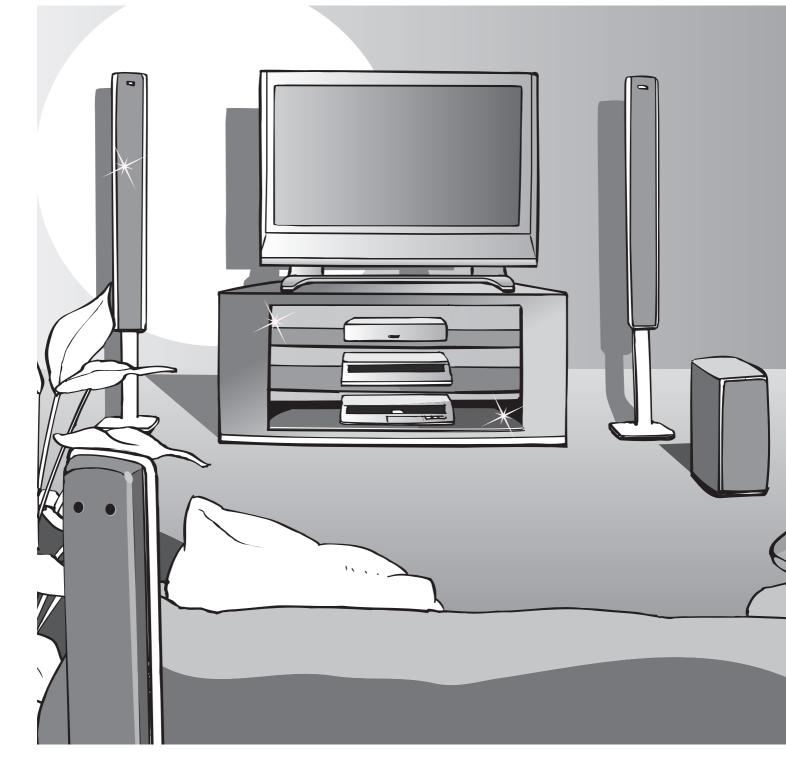


Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.



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



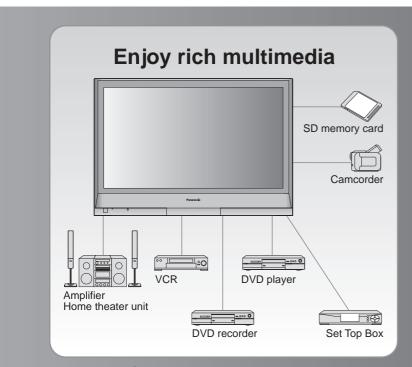


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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.







HDAVI Control<sup>™</sup> is a trademark of Matsushita Electric Industrial Co., Ltd.



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# **Safety Precautions**







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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.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set (including on shelves above, etc.).

### **Important Safety Instructions**

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

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



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

### FCC STATEMENT

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

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

#### FCC Caution:

To assure continued compliance, use only shielded interface cables when connecting TV to peripheral devices. Any changes or modifications not expressly approved by responsible party may cause harmful interference and could void the user's authority to operate this device.

Responsible Party:	Panasonic Corporation of North America
	One Panasonic Way, Secaucus, NJ 07094
Contact Source:	Panasonic Consumer Electronics Company
	1-888-VIEW-PTV (843-9788)
email:	consumerproducts@panasonic.com

**CANADIAN NOTICE:** 

For Models TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-50PX60X, TH-58PX60U This Class B digital apparatus complies with Canadian ICES-003.

### 

SMALL PARTS CAN PRESENT CHOKING HAZARD IF ACCIDENTALLY SWALLOWED.

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

#### Set up

Do not place the Plasma TV on sloped or unstable surfaces.
 The Plasma TV may fall off or tip over.

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

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

#### This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

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

- Wall-hanging bracket (Vertical): TY-WK42PV3U (TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-50PX60X, TH-58PX60U)
- Wall-hanging bracket (Angled): TY-WK42PR2U, TY-WK42PR3U (TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-50PX60X)

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

#### ■ AC Power Supply Cord

The Plasma TV is designed to operate on 120 V AC, 50/60 Hz (TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-58PX60U) or on 110 - 127 V AC, 50/60 Hz (TH-50PX60X). Securely insert the power cord plug as far as it will go.

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

## Do not handle the power cord plug with wet hands. Doing so may cause electric shocks.

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

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

## Notes

#### ■ Do not display a still picture for a long time

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

#### **Typical still images**

Channel number and other logos

- Image displayed in 4:3 mode
- SD Card photo
   Video game

Computer image

#### If problems occur during use

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

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

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

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

## 

#### Do not cover the ventilation holes.

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

If using the pedestal, leave a space of 3 15/16" (10 cm) or more at the top, left and right, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear.

#### ■ When using the Plasma TV

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

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

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

Electric shocks can result if this is not done.

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

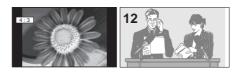
 Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

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

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

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



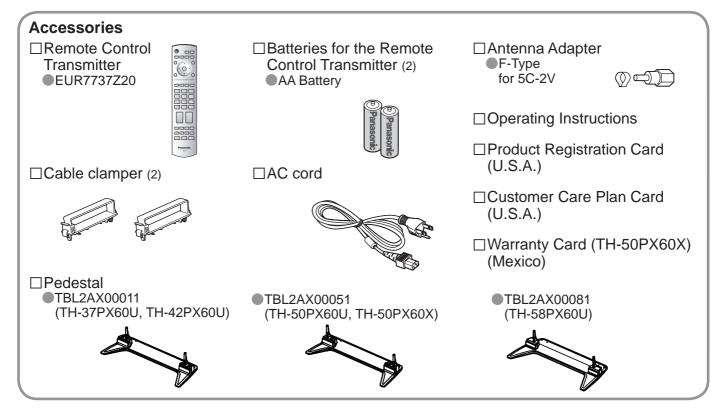
To prevent after image, the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 45)

#### Setup

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

# **Accessories/Options**

 $\checkmark$  Check you have all the items shown.



### Installing remote's batteries



### Caution

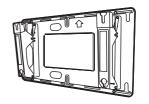
- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control unit. Do not mix old and new batteries.
  - Do not mix different battery types (such as alkaline and manganese batteries).
  - Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 37-38)



Wall-hanging bracket (vertical) TY-WK42PV3U (TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-50PX60UX, TH-58PX60U)



(angle) TY-WK42PR2U TY-WK42PR3U (TH-37PX60U, TH-42PX60U, TH-50PX60U, TH-50PX60X)



### Attaching the pedestal to the plasma television

#### Caution

Do not use any television or displays other than those given in this manual.

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

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

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

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

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

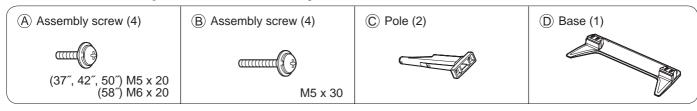
Use the accessory fall-prevention brackets to secure the plasma television.

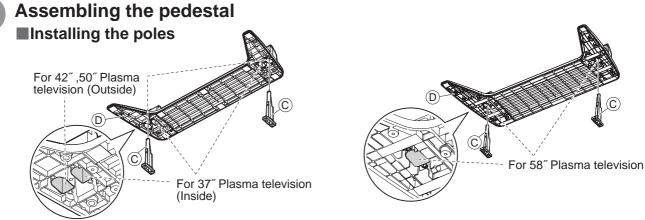
If the unit is knocked or children climb onto the pedestal with the Plasma TV installed, the plasma television may fall over and personal injury may result.

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

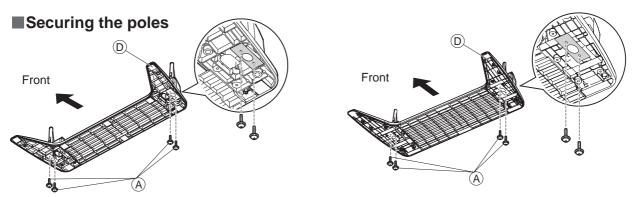
If two people are not present, the television may be dropped, and personal injury may result.

### Accessories for pedestal assembly





Insert the poles  $\bigcirc$  into the left and right holes in the underside of the base  $\bigcirc$  so that they fit securely as shown in the illustration above.



Use the assembly (A) screws to secure the poles firmly to the bottom of the base.

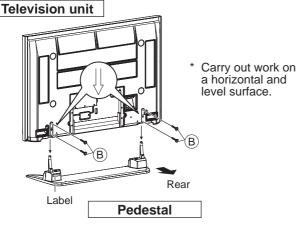
Note

Forcing the assembly screws the wrong way will strip the threads.

# **Accessories/Options**



### Setting-up



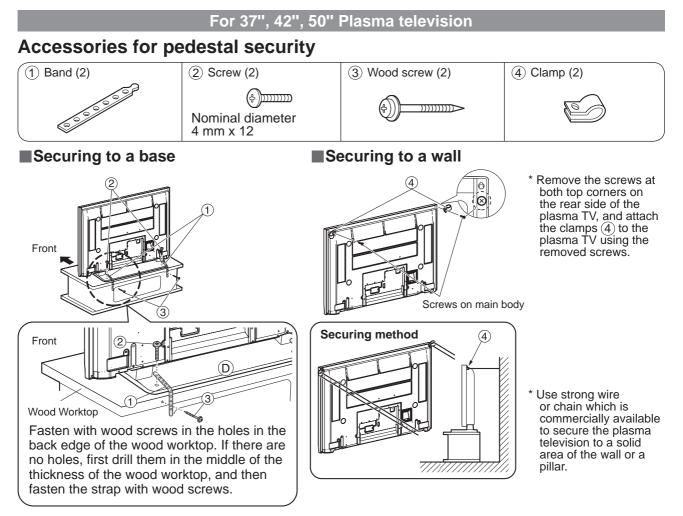
Lift the television unit above the pedestal base, with the back of the display unit on the same side as the Label. Then align the holes in the television unit with the poles of the pedestal and lower the television unit into place.

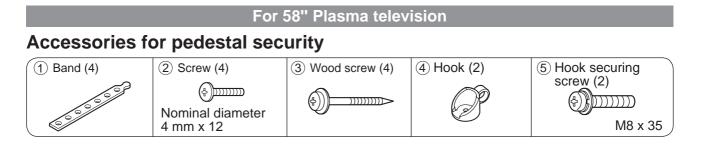
Use the assembly screws B (M5 x 30) to fasten securely.

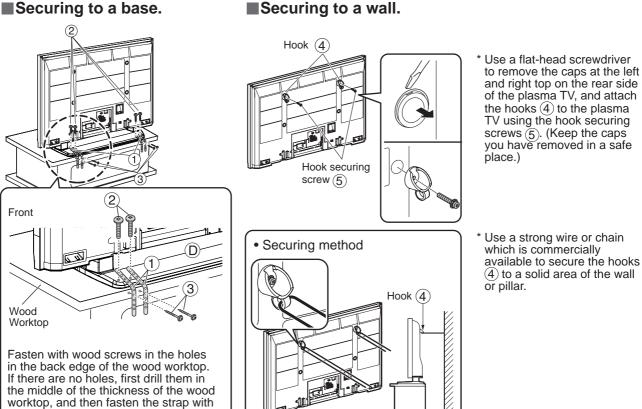


### Stopping the plasma television from falling over

\* The plasma TV must be fastened to both the base and the wall.







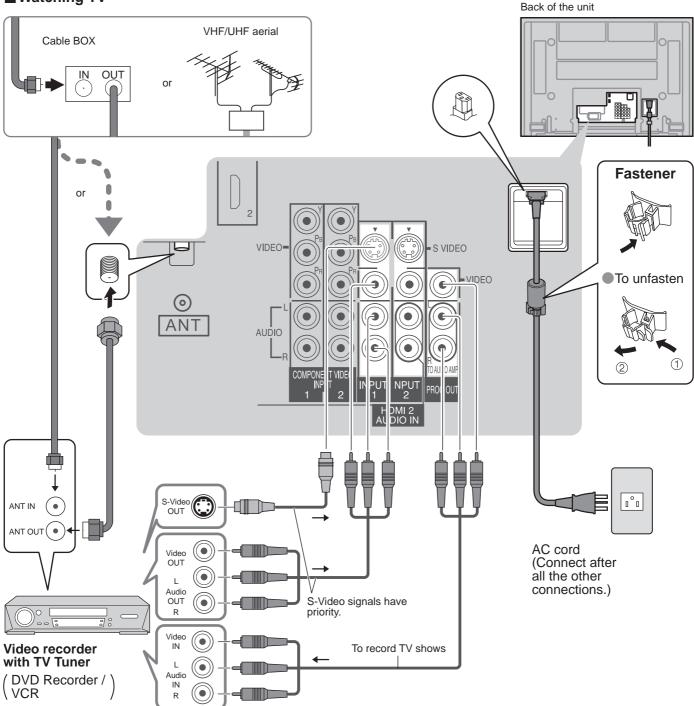
7777

wood screws.

- Use a strong wire or chain which is commercially available to secure the hooks (4) to a solid area of the wall

# Connection

### ■ Watching TV



#### Note

All cables and external equipment shown in this book are not supplied with the TV.

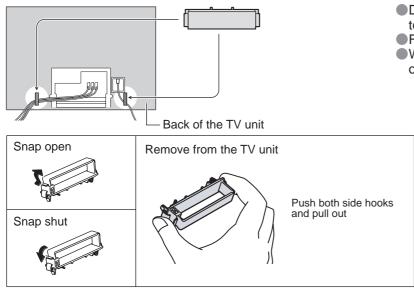
For additional assistance, visit us at : www.panasonic.com

www.panasonic.ca

- The S Video input will override the composite video signal when S Video cable is connected. Connect either S Video cable or Video cable.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG.OUT terminals.
- Some programs contain a copyright protection signal to prevent VCR recording.
- Set the TV channel to CH3 or CH4 for using Cable Box Connection.

### **Cable Binding Instructions**

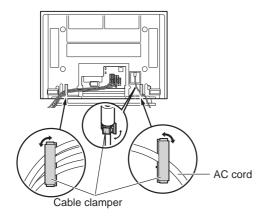
### Attaching the Cable clampers



- Do not bundle the RF cable and AC cord together (could cause distorted image).
   Fix cables with Cable clampers as necessary.
   When using the optional accessory, follow the
- option's assembly manual to fix cables.

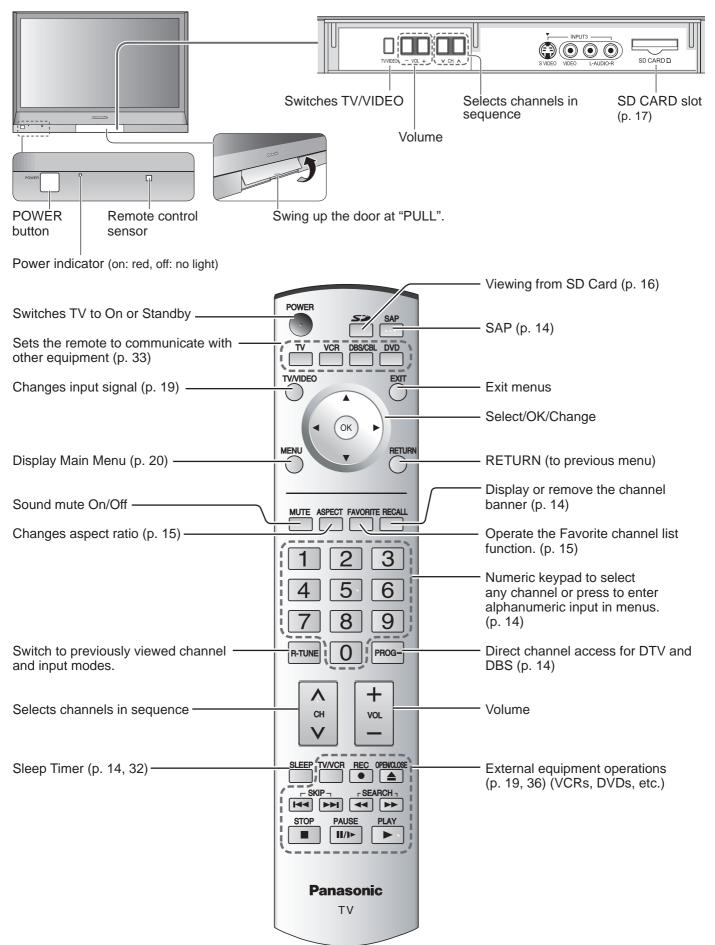
### Cable Binding Instructions

Bind all cables to the plasma television with the Cable clamper.



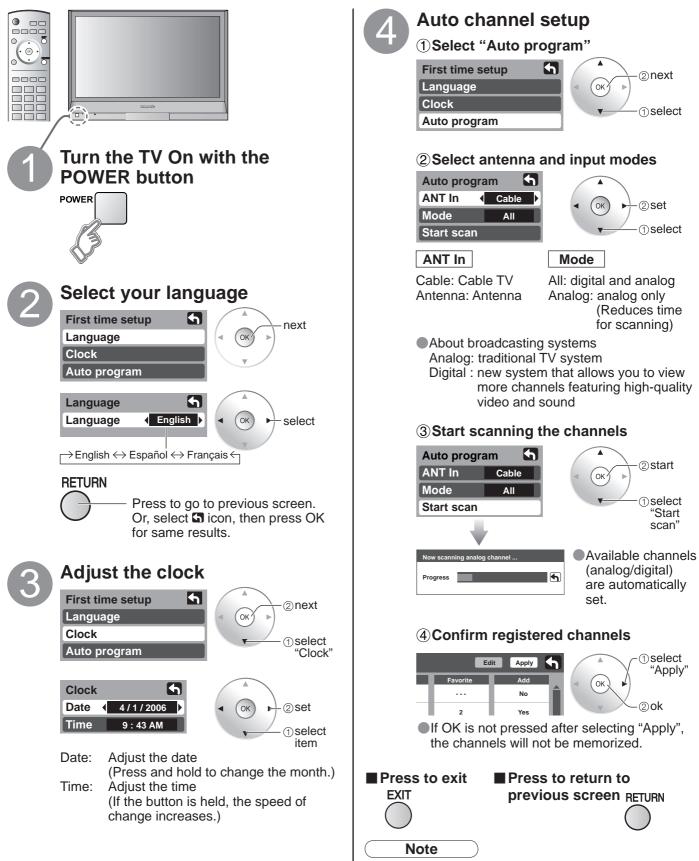
- Bundle cables with the Cable clamper on the left side.
- Fasten the AC cord with the Cable clamper on the right side.

# **Identifying Controls**



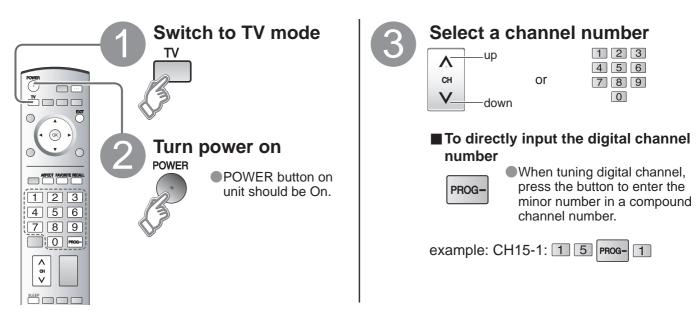
# **First Time Setup**

"First time setup" is displayed only when the TV is turned on for the first time after the AC cord is inserted into a wall outlet. Available only when "Auto power on" (p. 20) is set to "Off".

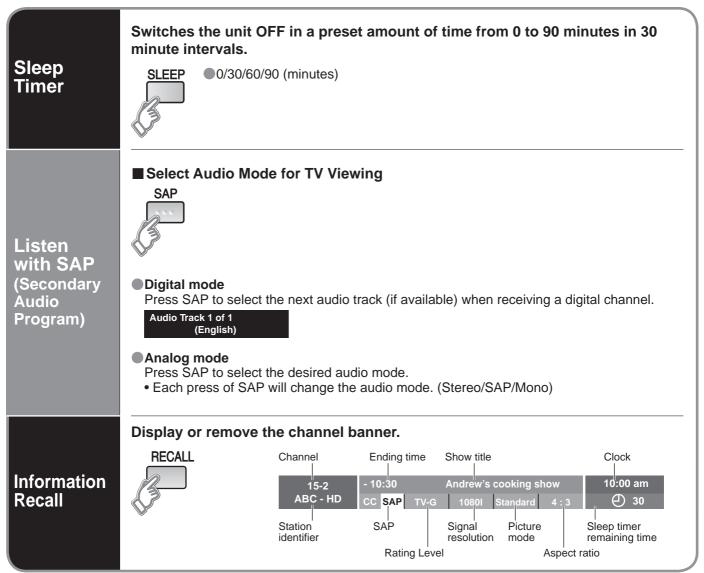


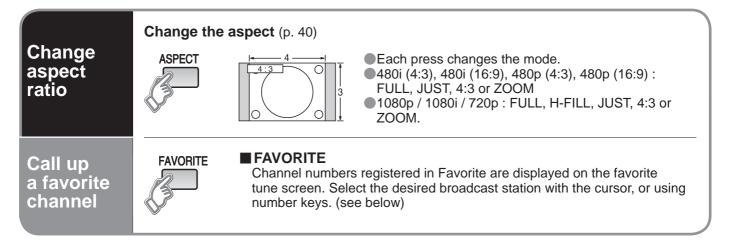
# Watching TV

Connect cable Box when watching cable TV. (p. 10)



■ Other Useful Functions (Operate after ③)





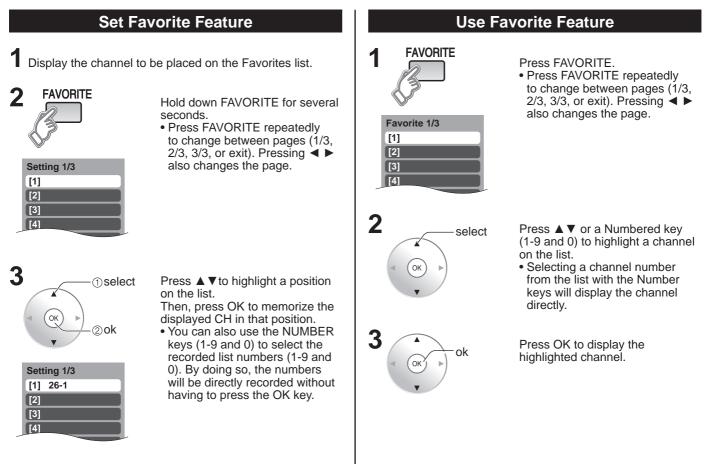
Caution

ATSC broadcasts cannot be received in countries other than the USA, Canada, and Mexico.

#### Note

Reselect "Cable" or "Antenna" in "ANT In" of "Auto program" to switch the signal reception between cable TV and antenna. (p. 13)

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



#### To delete a favorite channel

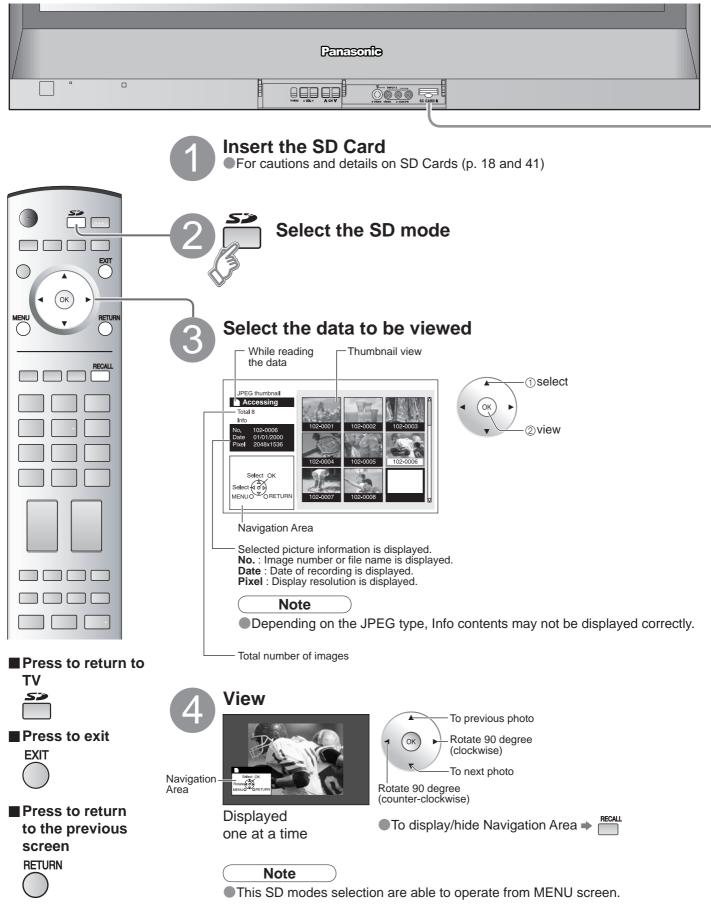
A memorized channel can be removed from the list by holding down FAVORITE while its position is highlighted.

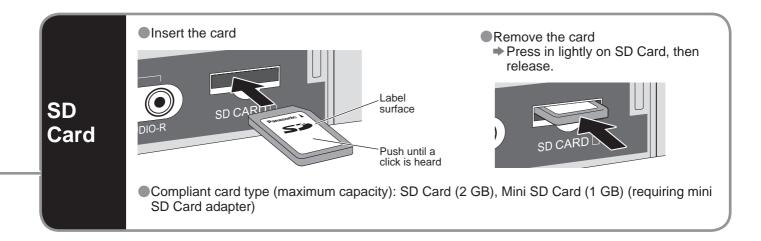
Viewing

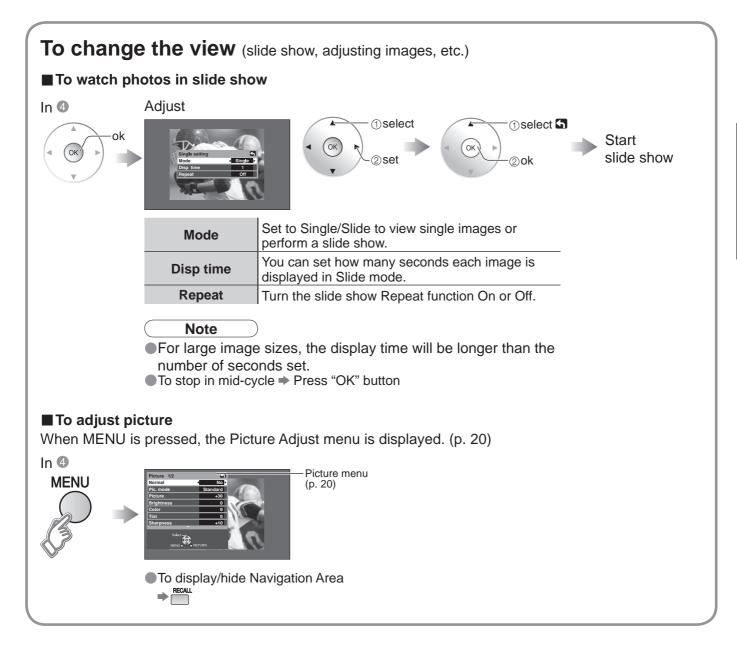
Watching TV

# Viewing from SD Card

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

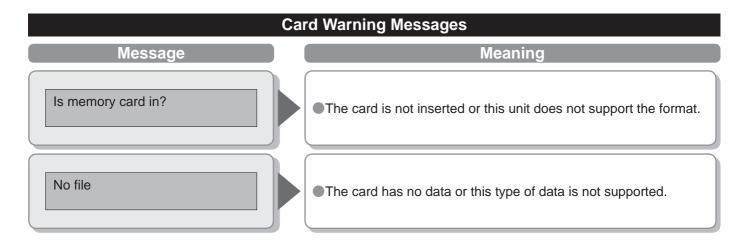






Viewing from SD Card

# **SD Card: Notes and Cautions**

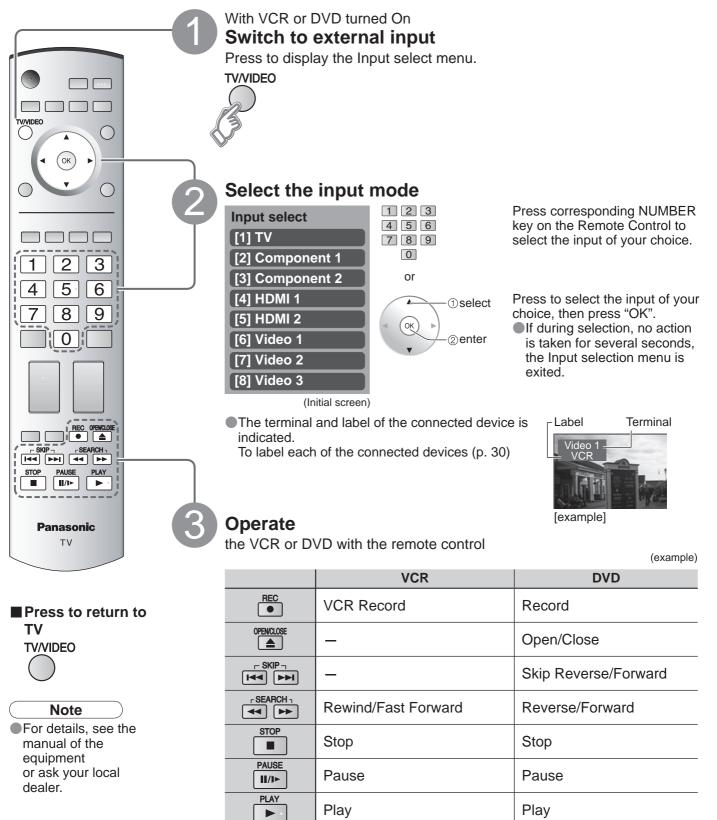


### Cautions in handling card :

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

# Watching Videos and DVDs

Some Panasonic equipment connected to the TV unit can be operated with the remote control. Programming the remote control is necessary to operate other manufacturers' products. (p. 33)



(For other operations, see p. 36.)

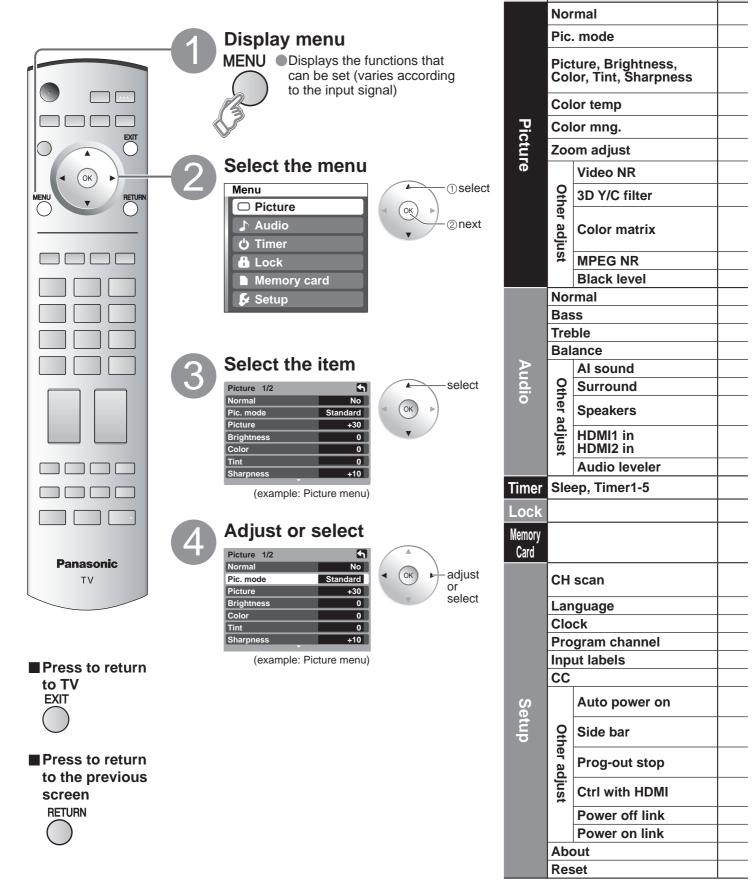
# How to Use Menu Functions

Menu list

Item

Menu

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

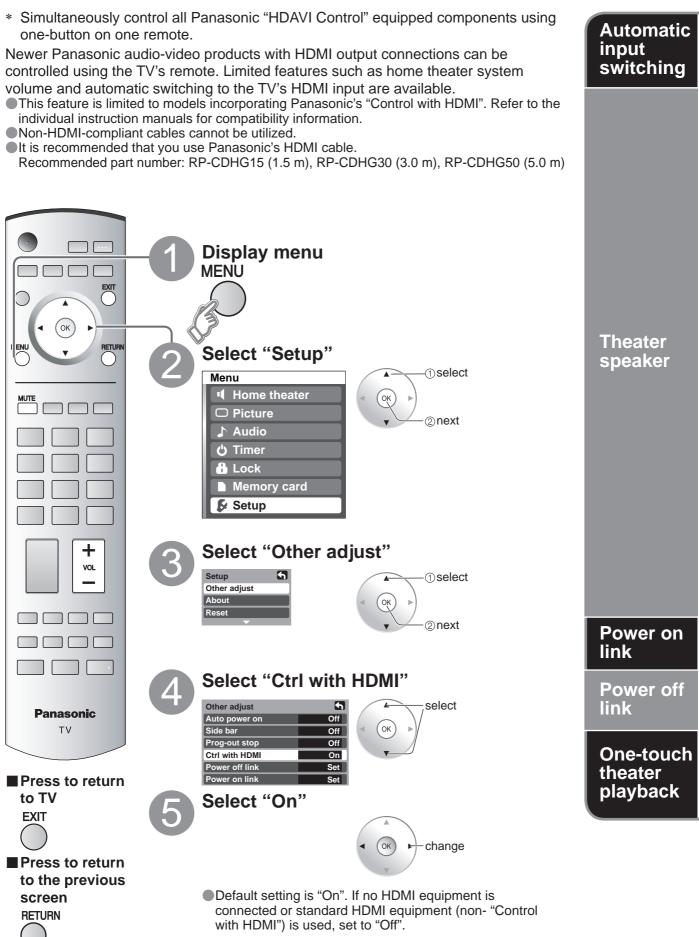


Adjustments/Configura			
Resets all picture adjustments to factory default settings except for '	"Other adjust"	Normal	
Basic picture mode (Vivid/Standard/Cinema) (p. 42)			Stand
Adjusts color, brightness, etc. for each picture mode to suit your taste	Tint Sharpness		
Selects level of warm colors (red) and cool colors (blue) (Warm/Coo	ol/Normal)	Color temp	(
On enhances green and blue color reproduction, especially outdoor	scenes. (On/Off)	Color mng.	
Adjusts vertical alignment and size when aspect setting is "ZOOM" (	(p. 40)	Zoom adjust	
Reduces noise, commonly called snow. Leave off when receiving a	strong signal. (On/Off)	Video NR	
Minimizes noise and cross-color in the picture. (On/Off)		3D Y/C filter	
<ul> <li>Selects image resolution of component-connected devices (SD/HD)</li> <li>SD: normal vision HD: high-definition vision</li> <li>Only 480p signal accepted; regular TV (NTSC) is not available.</li> </ul>	)	Color matrix	
Reduces noise of specific digital signals of DVD, STB, etc. (On/Off)		MPEG NR	
Select Dark or Light. Valid only for external input signals. (Dark/Light	ht)	Black level	
Reset Bass, Treble and Balance adjustments to factory default setting	ngs.	Normal	
Increase or decrease the bass response.		Bass	
Increase or decrease the treble response.		Treble	
Emphasize the left / right speaker volume.		Balance	
Equalize overall volume levels across all channels and VIDEO input	ts. <b>(On/Off)</b>	AI sound	
Enhances audio response when listening to stereo. (On/Off)		Surround	
Switches to "Off" when using external speakers <b>(On/Off)</b> • "Al sound", "Surround" and "Audio leveler" do not work if "Off" is selected			
Selects according to the signal when HDMI is connected (Auto/Dig Auto: Automatically selects Analog / Digital signal	ital/Analog)	HDMI1 in HDMI2 in	/
Minimizes volume disparity after switching to external inputs		Audio leveler	
The TV can automatically turn On/Off at the designated date and tin	ne. (p. 32)	Sleep	√ 60
Locks the channels and programs (p. 26)			
Displays SD card data (p. 16)			
Selects the channel with "Program up/down" button (Fav./All)		CH scan	
• Fav.: Only channels registered as FAVORITE (p. 15, 28)			
Selects the screen menu language (p. 13)		Language	
Adjusts the clock (p. 13)		Clock	
Sets channels (p. 28)		Program channel	
Select the terminal and the label of the external equipment (p. 30)		Input labels	
Displays subtitles (Closed Caption) (p. 30)		CC	
Turns TV On automatically when the cable box or a connected device	r on" is set.	Auto power on	
<ul> <li>The Sleep Timer and On / Off timer will not function if "Auto power</li> </ul>	mode only)	Side bar	Br
Increases the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 The recommended setting is Bright to prevent panel "after image"	u ,		
Increases the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 The recommended setting is Bright to prevent panel "after image" To prevent howling and image oscillation, stops output of the picture menu. (p. 35) (Off/Comp.1/Comp.2/HDMI 1/HDMI 2/Video 1/Video	es and audio specified in this	Prog-out stop	
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 How to Use Menu Functions (picture, sound quality, etc.)

In AV mode, the Audio menu and Setup menu give a smaller number of options.

# Control with HDMI "HDAVI Control<sup>™</sup>"\*



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

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

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

You can control the theater speaker with TV's remote control.

"Home theater" with speaker icon appears when a Panasonic "Control with HDMI" home theater system is connected via the HDMI input (1 or 2).

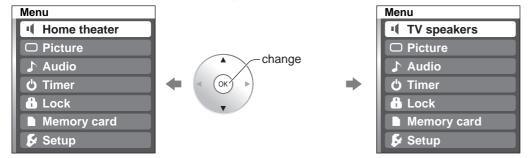
Pressing the OK button toggles between TV and home theater volume control.

• "Ctrl with HDMI" must be set to "On".

Limited to newer Panasonic Home Theater, RAM theater and DIGA/DVD models with "Control with HDMI".

(1) Display menu  $\Rightarrow$   $\bigcirc$ 

#### <sup>2</sup>Select "Home theater" or "TV speakers"



#### Home theater:

Adjustment for Panasonic Amplifier, Panasonic Player theater, Panasonic RAM theater

Mute

Volume up / down



#### TV speakers:

The TV speakers are active.

•When selecting "Home theater", the sound of TV speakers is mute.

+

VOL

- When "Home theater" is selected, the home theater volume control can be raised or lowered using the TV remote volume button. The TV will display "Home Theater + / -" on screen.
- If home theater/RAM theater/Player theater is currently off, selecting the "Home theater" option will automatically turn the equipment on. See "Power on link" below.
- If home theater/Player theater/RAM theater power is turned Off, speakers automatically switch to the TV.

When "Set" is selected, this allows for the TV to automatically turn on and switch to the appropriate HDMI input whenever a "Control with HDMI" compatible DVD player/recorder is initially turned on and Play mode is selected.

When "Set" is selected, this allows for the TV to turn off and also turn off the connected home theater/ RAM theater/player theater and/or DIGA-DVD player.

If the "ONE TOUCH PLAY" key is pressed on the AV amp or Player theater remote control, the following sequence of operations is performed automatically.

① Home theater/Player 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 theater.

#### Caution

#### Control with HDMI" function does not work in countries other than the USA and Canada.

The TV remains on even if the "Control with HDMI" compatible equipment is turned off.

#### Note

 Before using HDMI control functions, the connected equipment (DIGA, RAM theater, Player theater, AV amp) must also be set. For details, see the operation manual for each equipment.

• For equipment connection details, see p. 24.

# Control with HDMI "HDAVI Control™"

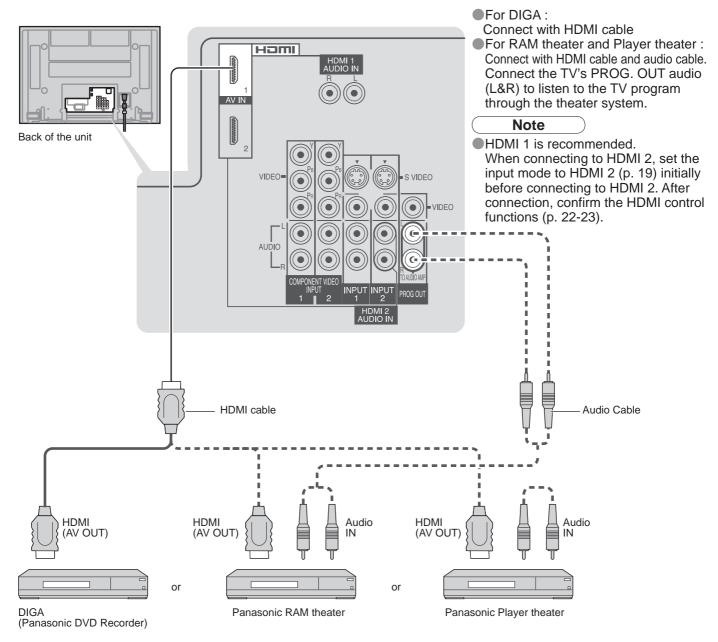
### **Recommended HDMI Connections**

Follow the connection diagrams below for HDMI control of a single AV piece of equipment such as a Panasonic DIGA-DVD recorder, RAM Theater or Player Theater system. Refer to page 22 for Setup Menu settings and additional control information.

• Optional HDMI and/or optical cables are not provided.

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

#### Connecting this unit to a DVD recorder, RAM theater or Player theater



#### Setting of this unit after connection

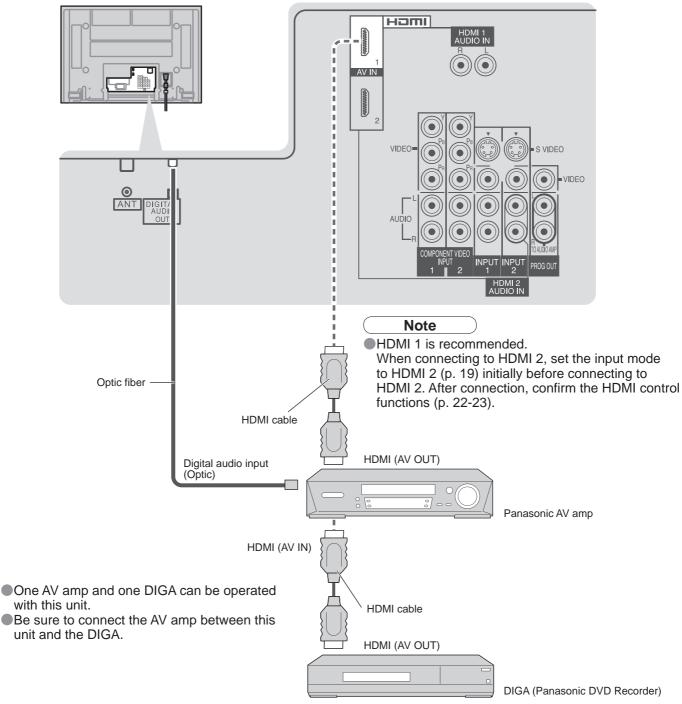
After making connections as shown above, set "Ctrl with HDMI" (under "Other adjust") to "On" using the Setup menu. (p. 22).

#### Note

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

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

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



#### Setting of this unit after connection

After making connections as shown above, set "Ctrl with HDMI" (under "Other adjust") to "On" using the Setup menu. (p. 22).

#### Note

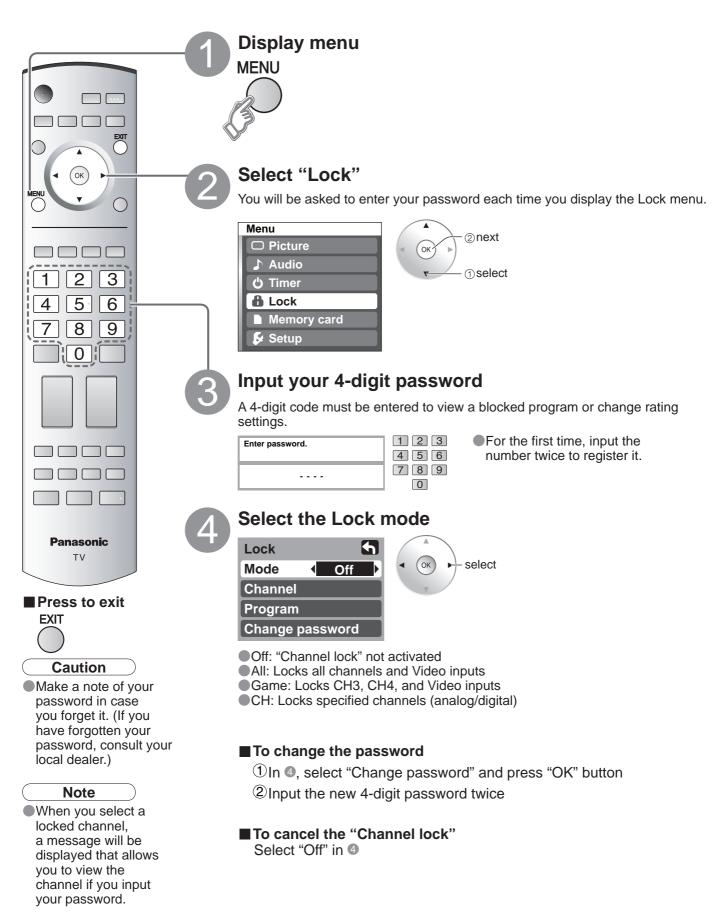
When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.

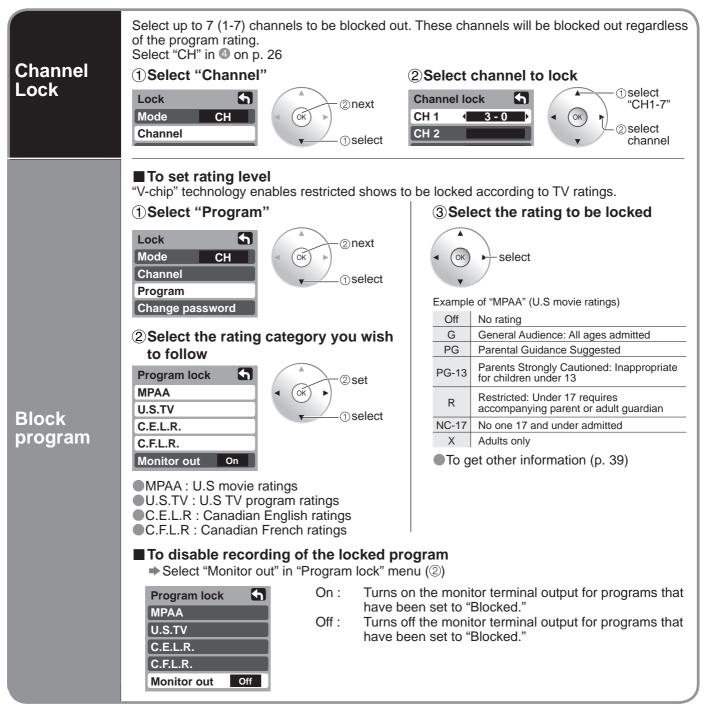
(When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)

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

# **Channel Lock**

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





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

#### 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

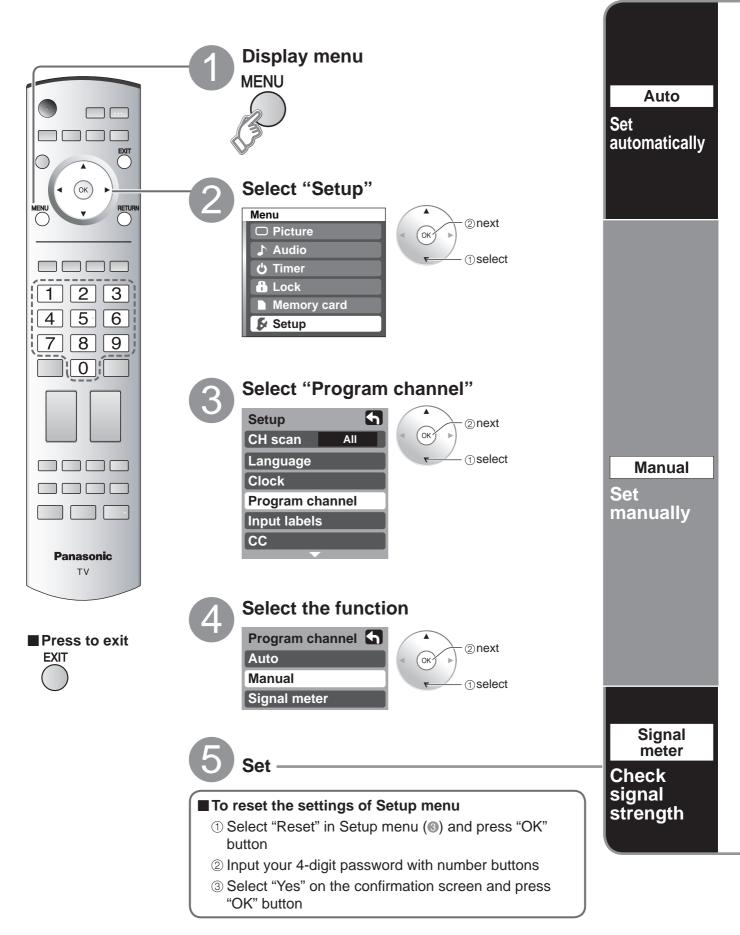
#### Note

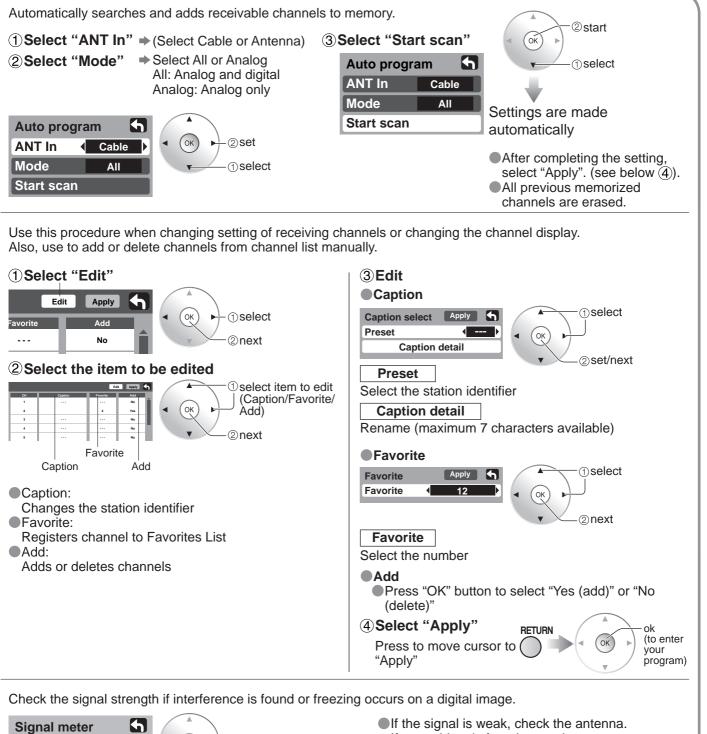
• The Off rating is independent of other ratings.

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.



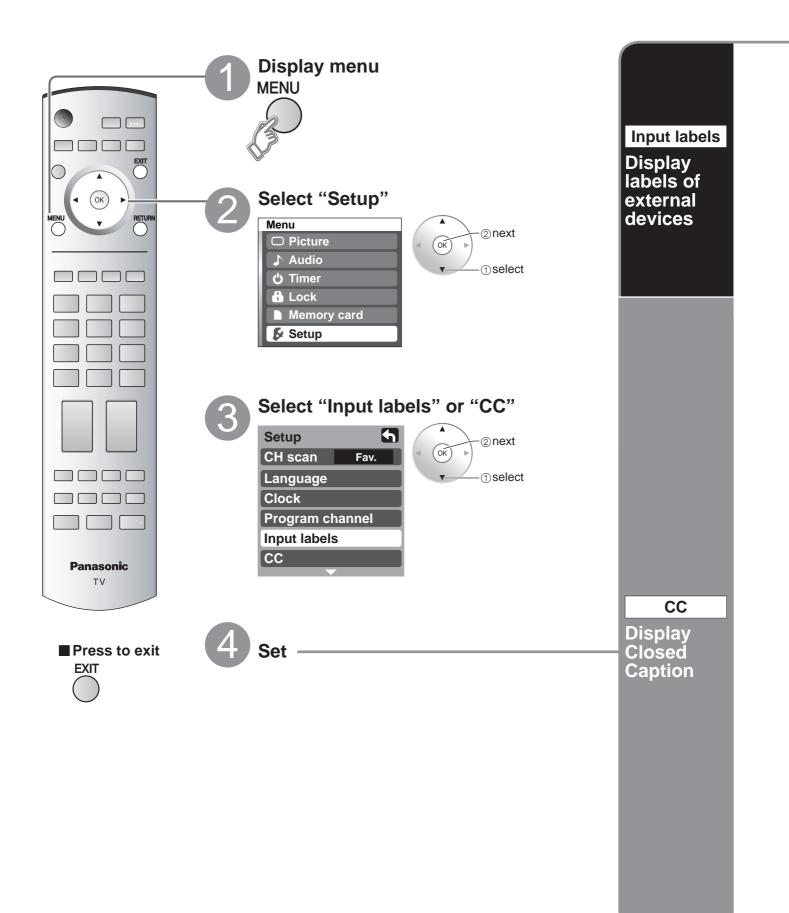


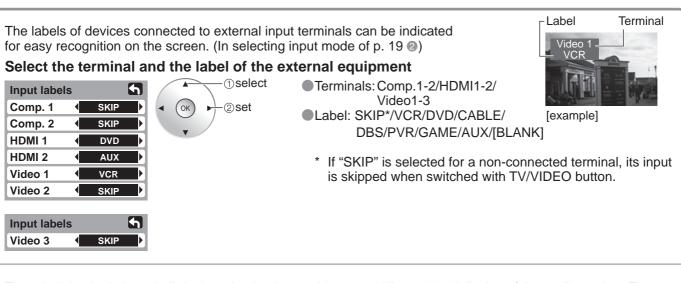
If no problem is found, consult your (1) select channel ОК CH < 2 - 1 local dealer. Signal strength 2 ok Note Not available if "Cable" is selected in "ANT In". Signal intensity Current 85 % (see above). Peak level Effective only for digital antenna channels.

Advanced

If "Channel lock" (p. 26) is activated and "Auto", "Manual" or "Signal meter" is selected, "Enter password." will be displayed.

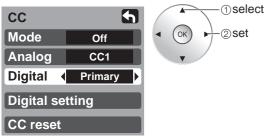
# Input Labels/Closed Caption





The television includes a built-in decoder that is capable or providing a visual display of the audio portion. The program viewed must provide Closed Captioning (CC) for the television to display it. (p. 40)

#### Select the item and set

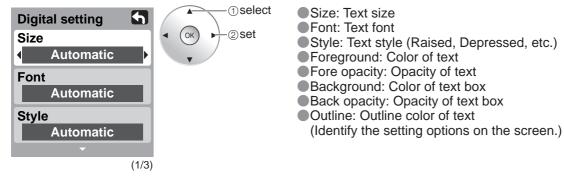


The settings in "Analog" or "Digital" depend on the broadcaster.

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 s ●"Primary", "Service 6	"Second.", "Service 3", "Service 4", "Service 5",

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

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

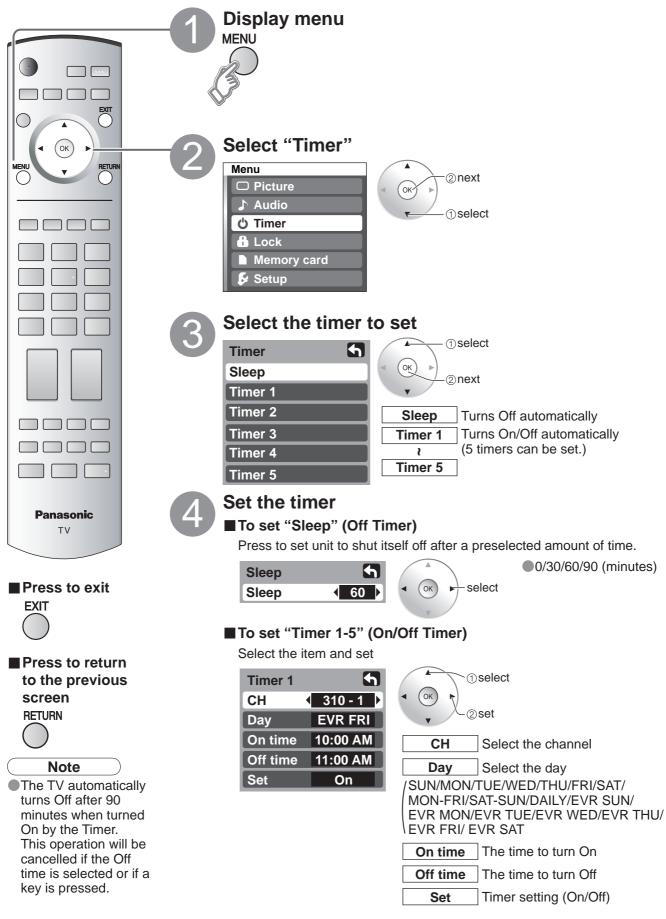


## ■ To reset the settings

Select "CC reset" and press "OK" button

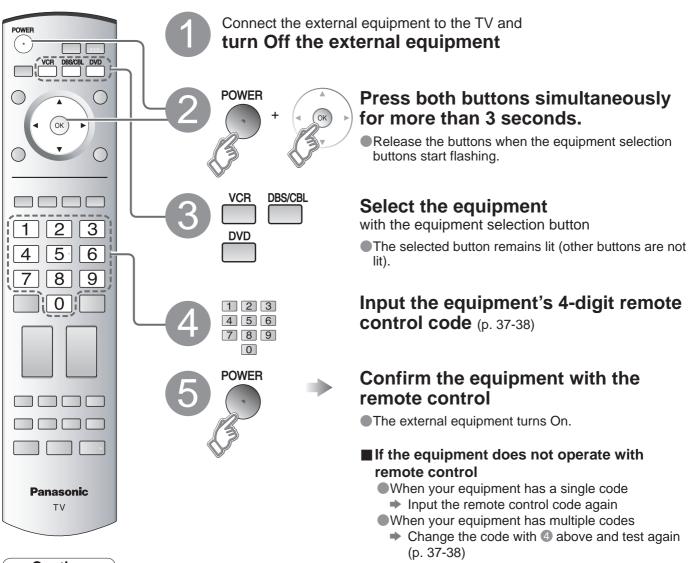
# **Using Timer**

The TV can automatically turn On/Off at the designated date and time. The Clock must be set before On time/Off time settings. (p. 13)



# **Operating Peripheral Equipment**

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



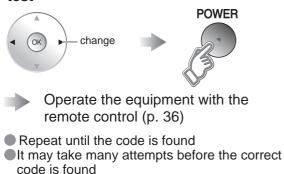
Caution

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

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

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

①After step ③ above, change the code and test

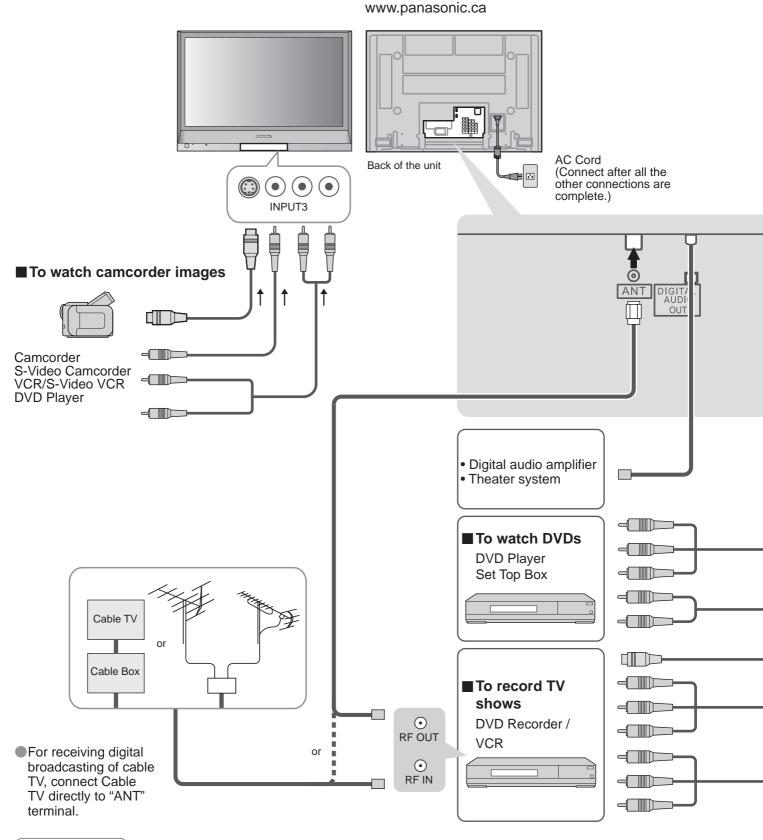


### ②When the correct code is found



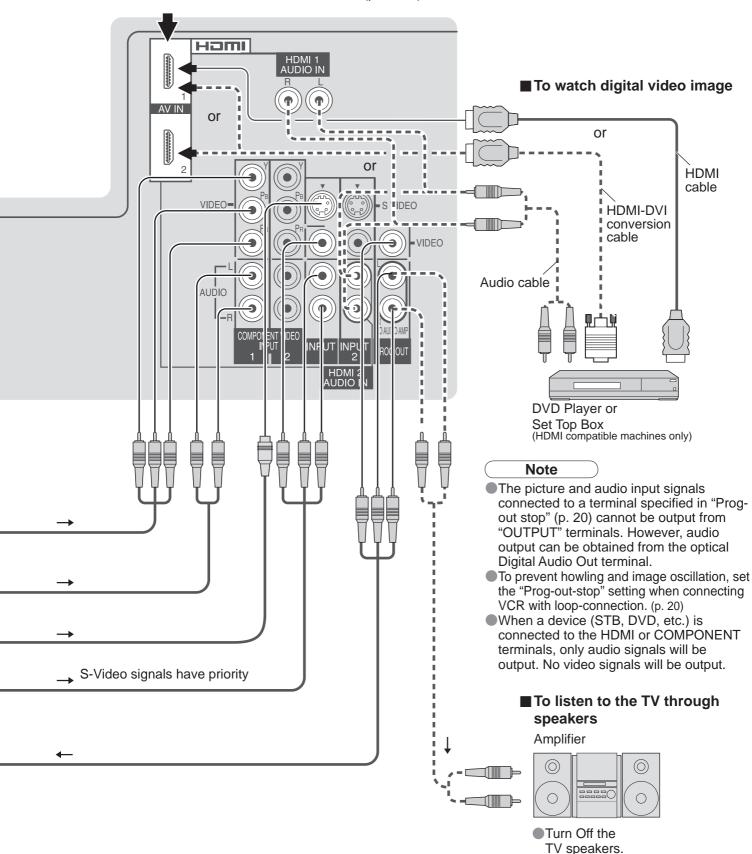
# **Recommended AV Connections**

These diagrams show our recommendations for how to connect the TV unit to your various equipment. For other connections, consult the instructions of each equipment, and the specifications (p. 46-47). For additional assistance, please visit our website at : www.panasonic.com



### Caution

For Antenna connection via VCR, please refer to the Operating Instructions of a VCR.



#### **Recommended HDMI Connections** (p. 24-25)

(p. 20 "Speakers")

# **Remote Control Operation/Code List**

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

Register the remote control codes (p. 33) if you want to operate an external device of another manufacturer. (p. 37-38)

#### 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, VCR, DBS/CBL, DVD.

KEY NAME	VCR MODE		LMODE	DVD MODE
POWER		(DBS)	(CBL)	DVD MODE
FOWER	Power	Power	Power	Power
	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
EXIT	_	Exit	Exit	-
	_	DBS Cursor Up/Down/Right/ Left	CBL Cursor Up/Down/Right/ Left	DVD Cursor Up/Down/Right/ Left
	_	Ok	Ok	Ok
MENU	_	DBS Menu	CBL Menu	DVD Setup Menu
	_	_	_	Return, Clear
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
ASPECT	_	Aspect	Aspect	DVD Disc Menu
FAVORITE	_	_	_	Title
RECALL	Onscreen Display	Onscreen Display	Onscreen Display	Onscreen Display
0~9	0-9	0-9	0-9	0-9
R-TUNE	_	DBS Previous Channel	CBL Previous Channel	Drive Select
▲ 3	Channel Up/Down	DBS Channel Up/Down	CBL Channel Up/Down	Channel Up/Down
+ vo.	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
SLEEP	_	Sleep	Sleep	-
	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	-
REC •	VCR Record	PVR Record *1	PVR Record *1	Record
OPENICLOSE	-	Search *1	Search *1	Open/Close
	_	_	_	Skip Reverse/Forward
r SEARCH ₁ ◄◀ ►►	Reverse/Forward	_	_	Rewind/Fast Forward
STOP	Stop	_	_	Stop
PAUSE	Pause	-	_	Pause
PLAY	Play	_	_	Play

# Remote Control Code List

	iverter ( 💼 )						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
BC	0003, 0008	Hamlin	0009, 0273	Philips	0317, 1305	Scientific Atlanta	0008, 0477, 0877, 1877
mericast	0899	Jerrold	0003, 0276, 0476, 0810	Pioneer	0144, 0533, 0877, 1877	Sony	1006
ell South	0899	Memorex	0000	Pulsar	0000	Starcom	0003
geo	1187	Motorola	1376, 0276, 0476, 0810, 1187	Quasar	0000	Supercable	0276
rector	0476	Pace	0008, 0237, 1877	Regal	0273, 0279	Torx	0003
neral Instrument	0003, 0276, 0476, 0810	Panasonic	0000, 0107	Runco	0000	Toshiba	0000
oldStar	0144	Paragon	0000	Samsung	0144	Zenith	0000, 0525, 0899
atellite R	eceiver ( DBS/CBL )						
phaStar	0772	General	0000	Magnavox	0722, 0724	0	1108, 1109, 1142, 1276, 1
haparral	0216	Instrument	0869	Memorex	0724	- Samsung	1442, 1609
rossdigital	1109	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
	0099, 0247, 0392, 0566,	Goodmans	1246	Motorola	0856, 0869	Sony	0639, 1639, 1640
	0639, 0724, 0749, 0819,	Hisense	1535	NEC	1270	Star Choice	0869
recTV	1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 144
	1444, 1609, 1639, 1640,	HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1786	Toshiba	0749, 0790, 0819, 1285, 174
	1749, 1856	Hughes	0749, 1442, 1749	Paysat	0724	UltimateTV	1392, 1640
sh Network	0775, 1005, 1170, 1505,	Hughes Network	0749, 1142, 1442, 1443,	Dhilling	0099, 0722, 0724, 0749, 0819,	Uniden	0722, 0724
/stem	1775	Systems	1444, 1749	Philips	1076, 1142, 1442, 1749	US Digital	1535
shpro	0775, 1005, 1505, 1775	iLo	1535	Pioneer	1442	USDTV	1535
hostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	Voom	0869
pressvu	0775, 1775	Jerrold	0869	Proton	1535	Zenith	1856
	0392, 0566	JVC	0775, 1170, 1775	RadioShack	0869		
	,	LG	1226, 1414	RCA	0143, 0392, 0566, 0855, 1392		
ablo/D\/E	R Combination (	L V	,		, , , ,		
	·	)	0.470,0040	D.	0077 4077	<b>0</b>	0070
nericast	0899	Jerrold	0476, 0810	Pioneer	0877, 1877	Supercable	0276
geo	1187	Motorola	0476, 0810, 1187, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
neral Instrument	0476, 0810	Pace	0237, 1877	Sony	1006		
<b>DBS/PVR</b>	Combination (	)					
	0099, 0392, 0639, 1076,	Dishpro	0775, 1505	JVC	1170	Samsung	1442
recTV	1142, 1377, 1392, 1442,	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
	1443, 1444, 1640	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
ish Network ystem	0775, 1505	Hughes Network Systems	1142, 1442, 1443, 1444	Proscan RCA	0392		
VOD		Oystems		KUA	1392		
/CR ( 👛							
`							
BS	1972	Hewlett Packard	1972	NEC	0067	Scott	0043, 0045
BS dventura	0000	Hitachi	0000, 0042, 0089	Nikko	0037	Sears	0000, 0035, 0037, 0042, 123
BS dventura wa	0000 0000, 0037, 0124	Hitachi Howard Computers	0000, 0042, 0089 1972		0037 1972	Sears Sharp	
BS dventura wa kai	0000 0000, 0037, 0124 0175	Hitachi	0000, 0042, 0089	Nikko	0037 1972 1972	Sears	0000, 0035, 0037, 0042, 123
BS dventura wa kai	0000 0000, 0037, 0124 0175 1972	Hitachi Howard Computers HP Hughes	0000, 0042, 0089 1972 1972	Nikko Niveus Media Northgate Olympus	0037 1972 1972 0035, 0226	Sears Sharp Sonic Blue	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035,
3S dventura wa kai ienware	0000 0000, 0037, 0124 0175	Hitachi Howard Computers HP	0000, 0042, 0089 1972 1972 0042, 0739	Nikko Niveus Media Northgate	0037 1972 1972 0035, 0226 0222	Sears Sharp Sonic Blue Sony	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616
3S dventura wa kai ienware nerican High	0000 0000, 0037, 0124 0175 1972	Hitachi Howard Computers HP Hughes	0000, 0042, 0089 1972 1972	Nikko Niveus Media Northgate Olympus	0037 1972 1972 0035, 0226	Sears Sharp Sonic Blue	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035,
3S dventura wa kai ienware nerican High udiovox	0000 0000, 0037, 0124 0175 1972 0035	Hitachi Howard Computers HP Hughes Network Systems	0000, 0042, 0089 1972 1972 0042, 0739	Nikko       Niveus Media       Northgate       Olympus       Onkyo	0037 1972 1972 0035, 0226 0222	Sears Sharp Sonic Blue Sony	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972
3S dventura wa ienware nerican High udiovox roksonic	0000 0000, 0037, 0124 0175 1972 0035 0037	Hitachi Howard Computers HP Hughes Network Systems Humax	0000, 0042, 0089 1972 1972 0042, 0739 0739	Nikko Niveus Media Northgate Olympus Onkyo Optimus Optimus	0037 1972 1972 0035, 0226 0222 0037 1479 0035, 0077, 0225, 0226, 0227,	Sears Sharp Sonic Blue Sony Stack 9	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972
3S dventura wa kai ienware nerican High udiovox oksonic alix	0000 0000, 0037, 0124 0175 1972 0035 0037 1479	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC	0000, 0042, 0089 1972 1972 0042, 0739 0739 1972	Nikko       Niveus Media       Northgate       Olympus       Onkyo       Optimus	0037 1972 1972 0035, 0226 0222 0037 1479	Sears Sharp Sonic Blue Sony Stack 9 STS	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000
3S dventura wa xai ienware nerican High udiovox oksonic alix anon	0000 0000,0037,0124 0175 1972 0035 0037 1479 0037 0035 0035 0035	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER	0000, 0042, 0089 1972 1972 0042, 0739 0739 1972 1972 1972 0067 0037	Nikko       Niveus Media       Northgate       Olympus       Onkyo       Optimus       Orion       Panasonic       Penney	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237	Sears Sharp Sonic Blue Sony Stack 9 STS Sylvania	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000 1972
3S dventura wa xai ienware nerican High udiovox oksonic alix anon tizen	0000 0000, 0037, 0124 0175 1972 0035 0037 1479 0037 0035	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC	0000, 0042, 0089 1972 1972 0042, 0739 0739 1972 1972 1972 0067 0037 0067	Nikko       Niveus Media       Northgate       Olympus       Onkyo       Optimus       Orion       Panasonic	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 02378, 0616, 1035, 1244	Sears Sharp Sonic Blue Sony Stack 9 STS Sylvania Symphonic	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000
3S dventura wa xai ienware nerican High udiovox oksonic akix anon tizen aig	0000 0000,0037,0124 0175 1972 0035 0037 1479 0037 0035 0035 0035	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC	0000, 0042, 0089 1972 1972 0042, 0739 0739 1972 1972 1972 0067 0037	Nikko       Niveus Media       Northgate       Olympus       Onkyo       Optimus       Orion       Panasonic       Penney	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237	Sears Sharp Sonic Blue Sony Stack 9 STS Sylvania Symphonic Systemax	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000 1972
3S dventura wa xai ienware nerican High udiovox oksonic akix anon tizen aig urtis Mathes	0000           0000, 0037, 0124           0175           1972           0035           0037           0479           0037           0035           0037           0035           0037           0035           0037           0035           0037	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood	0000, 0042, 0089 1972 1972 0042, 0739 0739 1972 1972 1972 0067 0037 0067	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042	Sears Sharp Sonic Blue Sony Stack 9 STS Sylvania Symphonic Systemax Tagar Systems	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000 1972 1972
3S dventura wa tai ienware nerican High udiovox toksonic alix anon tizen tizen aig urtis Mathes /berPower	0000           0000, 0037, 0124           0175           1972           0035           0037           0479           0037           0035           0037           0035           0037           0035           0037           0035           0037, 1278           0037           0035, 0060, 1035	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac	0000, 0035, 0037, 0042, 123 0807, 0848 0614, 0616 0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972 1972 0042 0000, 0035, 0043, 1781 0000 1972 1972 1972 0000
3S dventura wa xai ienware nerican High udiovox oksonic oksonic alix anon tizen ris g urtis Mathes /berPower aewoo	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037, 1278           0037           0035, 0060, 1035           1972	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0036, 0618, 0739, 1081, 1181	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           0000           0035, 0043, 1781           0000           0000           1972           0000           0035
3S dventura wa tai ienware nerican High udiovox toksonic alix anon tizen tizen tizen urtis Mathes /berPower aewoo ell	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0045           0045           1278	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philps         Pilot	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Teknika	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           0000           0035, 0043, 0035, 0043, 1781           0000           0035           0000           0035           0000           0035           0000
3S dventura wa ienware nerican High udiovox oksonic alix anon tizen tizen raig urtis Mathes /berPower aewoo ell enon	0000           0000, 0037, 0124           0175           1972           0035           0037           0479           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0045, 1278           1972	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           0037           00037           0000           0037	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0618, 0739, 1081, 1181           0037           0042	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000           0035           0000           0035           0000           0035           0000           0035           0000           0035           0000, 0035, 0037           0000           0618, 0636, 0739
S Iventura wa ai enware enware enware encan High idiovox oksonic oksonic alix anon tizen aig urtis Mathes rberPower aewoo ell enon recTV	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0045, 1278           1972           0042	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Proscan	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0618, 0739, 1081, 1181           0037           0042           0035           0037           0042           0035           0037           0042           0035           0037           0042           0035           0036, 0618, 0739, 1081, 1181           0037           0067           0060, 1060	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000           0035           0000           0035           0000           0035           0000           0035           0000           0035           0000, 0035, 0037           0000           0618, 0636, 0739
SS Aventura wa iai ienware herican High udiovox oksonic alix anon tizen iaig urtis Mathes r/berPower aewoo ell enon recTV urabrand	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0045, 1278           1972           0042           0739	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0037           00067           0037           0000           0037           1972           0000           0037           0000           0037           1278           0000, 0035, 0039, 1781	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Proscan         Pulsar	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0618, 0739, 1081, 1181           0037           0042           0035           0037           0042           0035           0037           0067           0060, 1060           0039	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           0618, 0636, 0739           0043, 0045, 0845, 100
S Iventura wa ai enware enware enware encan High idiovox oksonic oksonic alix anon tizen aig urtis Mathes rberPower aewoo ell enon recTV urabrand rnatech	0000           0000, 0037, 0124           0175           1972           0035           0037           0479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0045           1972           0042           0739           0039	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           0000           0037           0000           0037           0000           0037           1278           0000, 0035, 0039, 1781           0035	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Pusar         Quasar	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Thomas         Tivo         Toshiba	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000           1972           0000           0035           0000           0035           0000           0035           0000           0035           0000           0035           0000           0435           0000           035           0000           0435, 0636, 0739           0043, 0045, 0845, 100           1145, 1972
S Iventura wa ai enware enware enware encan High idiovox oksonic oksonic alix anon tizen aig urtis Mathes rberPower aewoo ell enon recTV urabrand rnatech ectrohome	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0040, 1035           1972           0045, 1278           1972           0042           0739           0039           0000	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0037           0000           0037           0000           0037           1972           0000           0037           1278           0000, 0035, 0039, 1781           0035           0037	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Pusar         Quasar         RadioShack	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Thomas         Tivo         Toshiba         Totevision	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0355           0000, 0035, 0037           0000           0355           0000, 0035, 0037           0000           043, 0636, 0739           0043, 0045, 0845, 100           1145, 1972           0037
S Iventura wa ai enware enware enware envare diovox oksonic oksonic alix anon tizen aig urtis Mathes rberPower aewoo ell enon recTV urabrand rnatech ectrohome ectrophonic	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0040, 1035           1972           0045, 1278           1972           0042           0739           0039           0000           0037, 0043	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Matsushita	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           0000           0037           0000           0037           0000           0037           1278           0000, 0035, 0039, 1781           0035           0037           0035	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philot         Pioneer         Pulsar         Quasar         RadioShack         Radix         Randex	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000           0037	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Sygtemax         Tagar Systems         Teac         Technics         Thomas         Tivo         Toshiba         Totevision         Touch	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0036, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972
3S dventura wa kai ienware nerican High udiovox oksonic alix anon tizen tizen tizen tizen tizen tizen tizen tizen aewoo ell enon recTV urabrand vnatech ectrophonic merex	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0042           0739           0039           0000           0037, 0043           0037	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta Matsushita Media Center PC	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           0000           0037           00036, 0039, 1781           00035, 0037, 1781           0035           0037           1278           0000, 0035, 0039, 1781           0035           0037           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Pusar         Quasar         RadioShack         Radix	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0037           0042           0035           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000           0037	Sears         Sharp         Sonic Blue         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Touch         Vector	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0036, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           0000, 0035, 0043, 1781           0000           0035           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972           0045
Associations of the sector of	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0038           0045, 1278           1972           0042           0739           0039           0000           0037, 0043           0037           0032	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta Matsushita Media Center PC MEI	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0037           0000           0037           0000           0037           1278           0000, 0035, 0039, 1781           0035           0035           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philot         Pioneer         Pulsar         Quasar         RadioShack         Radix         Randex	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000           0037           0000           0037	Sears         Sharp         Sonic Blue         Sonic Blue         Sony         Stack 9         STS         Sylvania         Symphonic         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Touch         Vector         Video Concepts	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0036, 1032, 1232, 1972           1972           00042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972           0045
3S dventura wa kai ienware nerican High diovox oksonic alix anon tizen tizen tizen tizen tizen tizen tizen tizen aewoo ell enon recTV urabrand //natech ectrophonic merex merson uji	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0038           0045, 1278           1972           0042           0739           0039           0000           0037, 0043           0037           0032           0000, 0037, 0043, 1278, 1479	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Matsushita Matsushita Media Center PC MEI	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           0067           0037           0067           0035, 0037           1972           0000           0037           00036, 0039, 1781           0035           0037           1278           0000, 0035, 0039, 1781           0035           0037           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Pulsar         Quasar         RadioShack         Radix         Randex         RCA	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000           0037           0000           0037           0000           0037           0000, 1060           0037           0000, 0037, 00037           0000, 0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037           0037	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Totevision         Touch         Vector         Video Concepts         Videomagic	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0036, 1032, 1232, 1972           1972           0000, 0035, 0043, 1781           0000           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972           0045           0045
AS dventura wa kai ienware nerican High udiovox oksonic alix anon tizen alix anon tizen arig urtis Mathes /berPower aewoo ell enon recTV urabrand /natech ectrohome ectrophonic merex merson uji unai	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0038           0045, 1278           1972           0042           0739           0039           0000           0037, 0043           0037           0032           00037, 0043, 1278, 1479           0033, 0035	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnasonic Magnavox Marantz Matsushita Media Center PC MEI Memorex MGA	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           1972           0067           0037           0067           0035, 0037           1972           0000           0037           0036, 0039, 1181           0035	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philips         Pilot         Pioneer         Pulsar         Quasar         RadioShack         Radix         Radex         RCA	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           0035, 0077, 1035           0000           0037           0042           0035, 017, 0807, 1035           0000           0037           0000           0037           0000           0037           0000           0037           0000           0037           0000           0037           0000, 0037, 0807, 0807, 0807, 0807, 0800, 0807, 0800,	Sears         Sharp         Sonic Blue         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Touch         Vector         Video Concepts         Videomagic         Viewsonic	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0036, 1032, 1232, 1972           1972           0000, 0035, 0043, 1781           0000           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0037           0000           0035           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972           0045           0045           0037           1972
AS dventura wa vai ienware nerican High Jdiovox roksonic alix anon tizen raig urtis Mathes yberPower aewoo ell enon recTV urabrand ynatech ectrohome ectrohome ectrophonic merex merson uji unai arrard	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035, 0060, 1035           1972           0045, 1278           1972           0042           0739           0000           0037, 0043           0037           0032           0000, 0037, 0043, 1278, 1479           0033, 0035           00000	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta Matsushita Madia Center PC MEI Memorex MGA	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           1972           0067           0035, 0037           1972           0000           0037           0000           0037           0000           0037           0035           0037           0035           0037           0035           0035           1972           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0035           0043	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philos         Pilot         Pioneer         Proscan         Quasar         RadioShack         Radix         Randex         RCA         Realistic         ReplayTV	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           00667           0035, 0077, 1035           0000           0037           0042           0035, 0077, 1035           0060, 1060           0037           0037           0037           0042           0037           0037           0037           0042           0037           0037           0042, 0060, 0077, 0807, 0807, 0807, 0800, 0037           06414, 0616	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Totevision         Touch         Video Concepts         Videomagic         Viewsonic         Villain	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0043, 1781           0000           0355           0000, 0035, 0037           0000           0355           0000, 0035, 0037           0000           035           0000, 0035, 0043, 100           1145, 1972           0037           1972           0045           0045           0037           1972           00037
AS dventura wa vai ienware nerican High udiovox oksonic alix anon tizen aig urtis Mathes vberPower aewoo ell ectrophonic nerecTV urabrand vnatech ectrophonic merex merson uji unai arrard ateway	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035, 0060, 1035           1972           0045, 1278           1972           0042           0739           0000           0037, 0043           0037           0032           0000, 0037, 0043, 1278, 1479           0033, 0035           0000           0000	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta Matsushita Madia Center PC MEI Memorex MGA Microsoft Mind	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           1972           1972           0067           0035, 0037           1972           0067           0035, 0037           1972           0000           0037           00035, 0039, 1781           0035           0037           0035           1972           0035           0035           1972           0035           0035           1972           0035           0000, 0035, 0037, 0039, 1237           0043           1972           1972	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philos         Pilot         Pioneer         Proscan         Quasar         RadioShack         Radix         Randex         RcA         Realistic         ReplayTV         Ricavision	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0035, 0618, 0739, 1081, 1181           0037           0067           0060, 1060           0039           00037           0042           0035, 0077, 1035           0036           0037           0000           0037           0042           0035, 0077, 0807, 0807, 0807, 0807, 0880, 1035, 1060           0000           0037           0042           0045           0037           0046           0047	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Totevision         Touch         Vector         Video Concepts         Videomagic         Viewsonic         Villain	0000, 0035, 0037, 0042, 123           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000, 0035, 0043, 1781           0000           1972           1972           0000, 0035, 0043, 1781           0000           0035           0000, 0035, 0043, 1781           0000           035           0000, 0035, 0037           0000           035           0000, 0035, 0037           0000           035           0042           0000, 0035, 0037           0000           043, 0045, 0845, 100           1145, 1972           0037           1972           0045           0045           0037           1972           0000           1972           0000
BS dventura wa kai lienware merican High udiovox roksonic alix anon itizen raig urtis Mathes yberPower aewoo ell enon irecTV urabrand ynatech lectrophonic merex merson uji unai arrard ateway E oldStar	0000           0000, 0037, 0124           0175           1972           0035           0037           1479           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035           0037           0035, 0060, 1035           1972           0045, 1278           1972           0045, 1278           1972           0042           0739           0000           0037, 0043           0037           0032           0000, 0037, 0043, 1278, 1479           0033, 0035           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000           0000	Hitachi Howard Computers HP Hughes Network Systems Humax Hush iBUYPOWER JVC KEC Kenwood Kodak Linksys Lloyd's LXI Magnasonic Magnavox Marantz Marta Matsushita Mada Center PC MEI Memorex MGA Minolta	0000, 0042, 0089           1972           1972           0042, 0739           0739           1972           1972           1972           0067           0035, 0037           1972           0000           0037           0000           0037           0000           0037           0036           0037           0037           0036           0037           0035           0035           1972           0035           0000, 0035, 0037, 0039, 1237           0043           1972           1972           0043           1972           0042	Nikko         Niveus Media         Northgate         Olympus         Onkyo         Optimus         Orion         Panasonic         Penney         Pentax         Philco         Philos         Pilot         Pioneer         Quasar         RadioShack         Radix         Realistic         ReplayTV         Runco	0037           1972           1972           0035, 0226           0222           0037           1479           0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244           0035, 0037, 0042, 1035, 1237           0042           0035           0037           0042           0035, 0618, 0739, 1081, 1181           0037           0060, 1060           0039           0037           0000           0037           0042           0035, 0077, 1035           0039           0037           0037           0042           0037           0042           0037           0037           0040           0037           0041, 0616           1972           0039	Sears         Sharp         Sonic Blue         Sony         Stack 9         STS         Sylvania         Systemax         Tagar Systems         Teac         Technics         Teknika         Thomas         Tivo         Toshiba         Totevision         Touch         Video Concepts         Videomagic         Vilain         Voodoo         Wards	0000, 0035, 0037, 0042, 1237           0807, 0848           0614, 0616           0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972           1972           0042           0000           0035, 0043, 1781           0000           1972           1972           1972           0000           0035           0000, 0035, 0043, 1781           0000           035           0000           035           0000, 0035, 0037           0000           035           0000, 0035, 0045, 0045, 1000           1145, 1972           0037           1972           0045           0045           0037           1972           0000           1972           0000           0037           1972           0000           1972           0000           1972           0000           1972           0000           1972           0000, 0035, 0042, 0060

FAQs, etc.

# **Remote Control Operation/Code List**

### Remote Control Code List

Strand gams         Code 0739         Brand Samsung         Code 0739         Brand Samsung         Code 0739           VTR ("W) samsung         Fraid 3amsung         0739         Navas Media         1972         Systemax         1972           VTR ("W) bertPower         1972         Hydre Meterk Systemax         0739         Navas Media         1972         Tagar Systems         1972           VertPower         1972         Humax         0739         Palage Samsung         Navas Media         1972         Tagar Systems         1972           VertPower         1972         Humax         0739         BUVPOWER         1972         RCA         0680         Touch         0618, 0658, 0739           atkway         1972         Linksys         1972         RCA         0680         Touch         1972           atkway         1972         Mada Center Po         1972         Stack 9         1972         Voedoo         1972           Palage         Group         1972         Mada Center Po         1972         Stack 9         1972         Voedoo         1972           Stack 9         1972         Group         1972         Stack 9         1972         Voedoo         1972           Stack 9 <td< th=""><th>DBS/PVR</th><th>Combination (</th><th>)</th><th></th><th></th><th></th><th></th><th></th></td<>	DBS/PVR	Combination (	)					
oppose         oppose<	Brand		Brand	Code	Brand	Code	Brand	Code
joins         Samsung         0739           VR (W)         Nortingate         1972         Nurfingate         1972         Systemax         1972           Iserware         1972         Hughe Network         0739         Panaeonic         0616         Tagar System         1972           Iserware         1972         Hunax         0739         Panaeonic         0616         Tagar System         1972           Iservare         1972         Hunax         0739         Panaeonic         0616         Tovo         0618, 053, 0739           Iservare         1972         Hunax         1972         Panaeonic         0616         Tovo         0618, 053, 0739           Istra         1972         Mindi Conter PC         1972         Sance Blue         0614, 0616         Meessonic         1972           omputers         1972         Mindi Conter PC         1972         Sance Blue         0619, 0732         Vordoo         1972           omputers         1972         Mindi Conter PC         1972         Sance Blue         0619, 0732         ZF Group         1972           omputers         1972         Mindi Conter PC         1972         Sance Blue         0619, 0732         ZF Group         1972 <td>Hughes Network</td> <td>0720</td> <td>Philips</td> <td>0739</td> <td></td> <td></td> <td></td> <td></td>	Hughes Network	0720	Philips	0739				
BS         1972         Hypes Network         0739         Niveus Media         1972         Systemax         1972           Hernvare         1972         Humax         0739         Panasonic         0616 0.30         Too         0618,0739         Too         0618,0630         Too         0618,0760         Too         0630,076,0752,125         Too         Too         0618,0760         Too         0630,0675,0752,125         Too         Son <t< td=""><td>Systems</td><td>0739</td><td>Samsung</td><td>0739</td><td></td><td></td><td></td><td></td></t<>	Systems	0739	Samsung	0739				
lineware         1972         System         Or39         Northgate         1972         True         1972           yberPower         1972         Hunax         0739         Parlasconic         0616         True         0618, 0739           recrV         0739         BUVPOVER         1972         RCA         0680         Toshiba         1008, 1972           ateway         1972         Linksys         1972         Replay TV         0614, 0616         Touch         1972           wordt Packad         1972         Microsoft         1972         Sonic Bue         0614, 0616         Viewsonic         1972           wordt Packad         1972         Microsoft         1972         Sonic Bue         0614, 0616         Viewsonic         1972           oward         1972         Microsoft         1972         Sonic Bue         0614, 0616         Viewsonic         1972           oward         Gradiente         0440         Gradiente         0440         Gradiente         0440         Gradiente         0460, 6030, 60732         Sensory         Sonic Bue         0630, 0675, 0752, 125         Shanonic         Shanonic         Sonic Bue         0630, 0675, 0752, 125         Shanonic         Sonic Bue         0630, 0675, 0752, 125 <td></td> <td>)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		)						
lineware         1972         systems         normgate         1972         Tagar Systems         1972           velf*over         1972         Humax         0739         Parasonic         0616         Tagar Systems         1972           ell         1972         Humax         0739         Parasonic         0616         Tool 0618, 0739           ell         1972         Linksys         1972         Bill         0614, 0616         Touch         1972           etell Pacid         1972         McGa Center PC         1972         Sonris Blue         0614, 0616         Vessonic         1972           omputers         1972         McGa Center PC         1972         Sonry         0636, 1972         Voodoo         1972           omputers         1972         Microsoft         1972         Sonry         0636, 1972         Voodoo         1972           over         Midrosoft         1972         Midrosoft         1972         Sonry         0503, 0792         Eastry         Voodoo         1972           over         Gradiente         0490         0630, 0752, 0725         Sonry         0530, 0675, 0752, 125         Sonro Sonry         0530, 0675, 0752, 125         Sonro Sonris         Sonro Sonris         Sonro S	ABS	1972	Hughes Network	0700	Niveus Media	1972	Systemax	1972
VpcP/over         1972         Humax         0739         Panasonic         0616         mail	Alienware	1972		0739	Northgate	1972	T	4070
Intercent         Or39         BLVPOWER         1972         RCA         0880         Tashika         1008, 1972           ataway         1972         Linksys         1972         ReplayTV         0614, 0616         Touch         1972           oward omputers         1972         Media Center PC         1972         Sonic Blue         0634, 0616         Weswonice         1972           oward omputers         1972         Mind         1972         Yoodoo         Yoodoo         Yoodoo         Yoodoo         Yoodoo         Yoodoo         Yoodoo         Yoodoo         Yoodooo         Yoodooo         Yoodooo <td>CyberPower</td> <td>1972</td> <td>Humax</td> <td>0739</td> <td>Panasonic</td> <td>0616</td> <td>- Tagar Systems</td> <td>1972</td>	CyberPower	1972	Humax	0739	Panasonic	0616	- Tagar Systems	1972
steway         1972         Linksys         1972         ReplayTV         0614, 0616         Touch         1972           weard markard         1372         Media Center PC         1972         Sonic Blue         0614, 0616         Viewonic         1972           omputers         1972         Microsoft         1972         Stack 9         1972         Viewonic         1972           p         1972         Mind         1972         Stack 9         1972         Viewonic         1972           dom         1972         Mind         1972         Stack 9         1972         Viewonic         1972           dom         1972         Mind         1972         Stack 9         1972         Viewonic         1972           dom         1972         Mind         1972         Stack 9         1972         Viewonic         1972           dom         6049         Gouldstar         Orf4         Onkyo         0503, 0792         Sensory Science         1158           spire Digital         1168         Integra         0571         Hillach         0572         Sinach (053         Sony         0533, 0864, 0675         Sony         0533, 0864         Sony         0533, 0864         Sony         <	Dell	1972	Hush	1972	Philips	0618, 0739	Tivo	0618, 0636, 0739
Balet Patad         1972         Media Center PC         1972         Sonic Bile         0614, 0616         Viewsonic         1972           oward omputers         1972         Mind         1972         Stack 9         1972         Vodoo         1972           P         1972         Mind         1972         Stack 9         1972         Vodoo         1972           P         1972         Mind         1972         Stack 9         1972         Vodoo         1972           VD ( ***********************************	DirecTV	0739	IBUYPOWER	1972	RCA	0880	Toshiba	1008, 1972
Mail denier P         1972         Mail denier PC         1972         Sony         0636, 1972         Vodoo         1972           P         1972         Mind         1972         Stack 9         1972         ZT Group         1972           OVD ( ***********************************	Gateway	1972	Linksys	1972	ReplayTV	0614, 0616	Touch	1972
oward omputers         1972         Microsoft         1972         Sony         0638, 1972         Voodso         1972           P         1972         Mind         1972         Stack 9         1972         Z         Z         Group         1972           P         1972         Mind         1972         Stack 9         1972         Z         Group         1972           VD ( ^00         0669         Gradiente         0440         Gradiente         0440         Gradiente         0440         Gradiente         0440         Gradiente         0440         Gradiente         0457.0578.125         Sharp         0663.0675.0752.125         Shinsonic         0533         Sonic Bile         0689         Sonic Bile         0680         Sonic Bile         0680         Sonic Bile         0689         Sonic Bile         0680         Sonit Bile         0680         <	Hewlett Packard	1972	Madia Cantor DC	4070	Sonic Blue	0614, 0616	Viewsonic	1972
Implementation         Mind         1972         Stack 9         1972         ZT Group         1972           P         1972         Mind         1972         Mind         1972         Torop         1972         ZT Group         1972           OD ( <sup>DO</sup> D)         000         GoldStar         0741         Onkyo         0503, 0792         Sensory Science         1158           Jund, 1054, 1054, 1061, 1061, 1061, 1061, 1061         Granding         0633         Granding         0672         Sharp         0630, 0675, 0752, 125           Spire Digital         1168         Integra         0671         Deffect         Deffect         Deffect         Sharp         0633, 0664         0653           JVC         0558, 0623, 0667, 1164, 1275         JVC         0558, 0623, 0667, 1164, 1275         1267, 1354         Sonic Biue         0689           Julionia Audio         0490         Kerwood         0490, 0534         PlanoDisc         1024         Sylwania         0675           Julionia Nation         0486         0833, 0689         L6         0591, 0741, 0801, 0869         Polic Audio         0533         Technics         0490, 0703           Julionia Nationia         0816, 023, 1024, 1129         LieOn         1158, 1440         Polic Audio <td>Howard</td> <td>1070</td> <td>- Media Center PC</td> <td>1972</td> <td>Sony</td> <td>0636, 1972</td> <td>Voodoo</td> <td>1972</td>	Howard	1070	- Media Center PC	1972	Sony	0636, 1972	Voodoo	1972
DVD (         DO (00)         ColdStar         0741         Onkyo         0503, 0792         Sensory Science         1158           deom         1094         Gradiente         0490         0533, 0792         Panasonic         0490, 0503, 0632, 0703, 1100, 1101, 1011, 1362, 1462, 1490, 1762, 1967         Sharp         0630, 0675, 0752, 125           spire Digital         1168         Integra         0571         Panasonic         1190, 1762, 1967         Sharp         0630, 0675, 0752, 125           spire Digital         1168         Integra         0571         Panasonic         1267, 1354         Sharp         0633, 0664, 103, 1431, 1440	Computers	1972	Microsoft	1972	Stack 9	1972	ZT Group	1972
DVD         Orkyo         0530, 0792         Sensory Science         1158           liegro         0869         Gradiente         0490         0533, 0792         Sensory Science         1158           pex Digital         0672, 0794, 0796, 0797, 11004, 1056, 1061, 1100         Hiteker         0672         Sharp         0630, 0675, 0752, 125           spire Digital         1168         Integra         0571         Panasonic         0503, 0539, 0646, 0675, 1267, 1354         Sharp         0633, 0869         0633, 0864, 1033, 1431,           ube Parade         0571         JVC         0558, 0623, 0867, 1164, 1275         Philips         0503, 0539, 0646, 0675, 1267, 1354         Symphonic         0633, 0869           0490         0430         Lecson         1533         Pineopic         0522, 0571, 0631, 0632         Symphonic         0675           warewo         0833, 0869         LG         0591, 0741, 0801, 0869         Pole Audio         0639         Technics         0490, 0703           snew         0675         Magnavox         0503, 0539, 0646, 0675         Ric         0622, 0571, 0822         Technics         0490, 0533, 0689, 1045, 115           unai         0675         Magnavox         0503, 0539, 0646, 0675         Ric         0623         Yamaha         0490, 053	HP	1972	Mind	1972				
liegro         0869         Gradiente         0490         Sensory Scence         1158           pex Digital         6672, 0794, 0796, 0797, 1004, 1056, 1051, 1100         Gradiente         0490         Panasonic         0490, 0503, 0632, 0703, 1010, 1011, 1362, 1462, 1490, 1762, 1967         Sharp         0630, 0675, 0752, 125           spire Digital         1168         Integra         0571         0503, 0539, 0646, 0675, 1267, 1354         Shinsonic         0533           0695         JVC         0558, 0623, 0867, 1164, 1275         Philips         0503, 0539, 0646, 0675, 1267, 1354         Sonic Blue         0669           alifornia Audio abs         0490         Kenwood         0490, 0534         Sonic Blue         0669           uper Jone 0635, 0623, 0827, 1164, 1275         Kenwood         0490, 0534         Sony         0533, 0869           oby         1086         LG         0511, 0741, 0801, 0809         Pioneer         0525, 0571, 0631, 0632         Symphonic         0675           wewoo         0833, 0869         LieCon         1158, 1440         Proceed         0672         Toshiba         0503, 0539, 0646, 0675           merson         0551         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Viba         0503           vibroi <td>DVD (</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DVD (							
liegra         0869         Gradiente         0490         0490         0672         0734         0762         0734         0762         0734         0762         0734         0762         0734         0762         0734         0762         0734         0762         0734         0762         0734         0762         0733         0664         1100         1011         10262         1422         1416         1016         1017         1014         1018         1010         1011         1022         1033         0630         0675         0533         0563         0533         0533         0533         0533         0533         0533         0533         0533         0543         0533         0543         0533	Adcom	1094	GoldStar	0741	Onkyo	0503, 0792	0 0 1	
pex Digital         0672, 0794, 0796, 0797, 1004, 1056, 1061, 1100         Hitachi         0673, 0664         1010, 1011, 1362, 1462, 1497         Sharp         0630, 0675, 0752, 125           spire Digital         1168         Integra         0571         1490, 1762, 1967         Sinsonic         0533           ue Parade         0571         0558, 0623, 0867, 1164, 1275         Philips         0503, 0539, 0646, 0675, 1267, 1354         Sonic Blue         0869           ue Parade         0591         0568, 0623, 0867, 1164, 1275         Philips         1024         Sylwania         0675           abs         0490         Kenwood         0490, 0534         Pioneer         0525, 0571, 0631, 0632         Sylwania         0675           sewoo         0833, 0869         LG         0591, 0741, 0801, 0809         Polacidi         1061, 1086         Technics         0490, 0703           enon         0430         LieCon         1158, 1440         Proceed         0672         Tokibia         0503, 0639, 0464, 0675           enerson         0591, 0675         Magnavox         0533         0539, 0646, 0675         Rok         0672         Tokibia         0503, 0639, 0445, 075           sineerson         0591, 0675         Marantz         0539         Rok40, 0539         0672	Allegro	0869	Gradiente	0490			- Sensory Science	1158
Pex Ugital         1004, 1056, 1061, 1100         Hitach         U0/3, 0064         Hitach         U0/3, 0064         Hitach         U0/3, 0064         Hitach         U0/3, 0064         Shinsonic         G533         Sonic Blue         0869           spire Digital         1168         Integra         0571         JVC         0558, 0623, 0867, 1164, 1275         Fhillps         5003, 0539, 0646, 0675, 1267, 1354         Sonic Blue         0869           abroxinic         0695         JVC         0558, 0623, 0867, 1164, 1275         Phillps         1024         Sylvania         0675           abroxinic         0833, 0869         Lecson         1533         Pioneer         0525, 0571, 0631, 0632         Symphonic         0675           aewoo         0833, 0869         Lecon         1158, 1440         Polk Audio         0539         Theab Digital         0571           aewoo         0833, 0869         Lecwo         0511         Proceed         0672         Toshiba         0503, 0539, 0545, 1057, 115           aewoo         0833, 0869         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Toshiba         0503, 0539, 0545           wrisperson         0591, 0675         Marantz         0539         Samyo         0562 <t< td=""><td></td><td></td><td>Grundig</td><td>0539</td><td rowspan="3">Panasonic 1010, 1011, 1362, 1462,</td><td></td><td></td><td></td></t<>			Grundig	0539	Panasonic 1010, 1011, 1362, 1462,			
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Lue Parade         0571         JVC         0558, 0623, 0867, 1164, 1275         Philips         0503, 0539, 0646, 0675, 1267, 1354         Sony         0533, 0864, 1033, 1431, 0533, 0864, 1033, 1431, 0533, 0864, 1033, 1431, 0533, 0864, 1033, 1431, 0533, 0864, 1033, 1431, 0533, 0869           abs         0490         Kenwood         0490, 0534         PianoDisc         1024         Symphonic         0675           ine Vision         0833, 0869         LG         0591, 0741, 0801, 0869         Pioneer         0525, 0571, 0631, 0632         Technics         0490, 0703           yberHome         0816, 1023, 1024, 1129         LiteOn         1158, 1440         Polk value         0571         Technics         0490, 0703           aewoo         0833, 0869         Loewe         0511         Proceed         0672         Toshiba         0503, 0695, 1045, 115           aewoo         0531, 0675         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Vamaha         0490, 0539, 0545           vilarie         0675         Magnavox         0503, 0539, 0646, 0675         RicA         0522, 0571, 0822         Yamaha         0490, 0539, 0545           vilarie         0675         Magnavox         0552         Samsung         0490, 0573, 0820, 1075         Sansui         0695 <tr< td=""><td></td><td>1004, 1030, 1001, 1100</td><td>Hiteker</td><td>0672</td><td>1100, 1102, 1001</td><td>Shinsonic</td><td>0533</td></tr<>		1004, 1030, 1001, 1100	Hiteker	0672		1100, 1102, 1001	Shinsonic	0533
Udd Parabol         UVC         0558, 0623, 0867, 1164, 1275         Prinips         1267, 1354         Sony         0533, 0864, 1033, 1431,           oksonic         0695         0490         Ecson         1533         Pinneps         1267, 1354         Sony         0533, 0864, 1033, 1431,           abs         0490         0695         1533         Pinneps         1024         Sylvania         0675           ineVision         0833, 0869         LG         0591, 0741, 0801, 0869         Pinneps         0525, 0571, 0631, 0632         Technics         0490, 0703           yberHome         0816, 1023, 1024, 1129         LiteOn         1158, 1440         Pola Audio         0539         Theta Digital         0571           aewoo         0833, 0869         Loewe         0511         Proceed         0672         Toshiba         0503, 059, 1045, 115           renon         0490         Magnavox         0503, 0539, 0646, 0675         Rod         0522, 0571, 0822         Toshiba         0503, 059, 1045, 115           vania         0591         Marantz         0539         Rotel         0623         Yamaha         0490, 0539, 0545           ateway         1158         Microsoft         0522         Sansui         0695         Sansui         <	Aspire Digital	1168	Integra	0571			Sonic Blue	0869
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Lecson         1533         Pioneer         0525, 0571, 0631, 0632         Symphonic         Ofers           oby         1086         0691, 0741, 0801, 0869         Polaroid         1061, 1086         Technics         0490           aewoo         0833, 0869         LiteOn         1158, 1440         Polk Audio         0539         Theta Digital         0571           aewoo         0833, 0869         LiteOn         1158, 1440         Proceed         0672         Toshiba         0503, 0539, 0646, 0675           merson         0675         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Yoba         Otoa         O	California Audio	0.400	Kenwood	0490, 0534	PianoDisc	1024	Sylvania	0675
Ine Vision         0833, 0869         LG         0591, 0741, 0801, 0869         Polarcid         1064.         Ieac         0809           oby         1086         1158, 1440         PolkAudio         0539         Theta Digital         0571           aewoo         0833, 0869         Loewe         0511         Proceed         0672         Toshiba         0503, 0695, 1045, 115           enon         0490         Loewe         0511         Proceed         0672         Toshiba         0503, 0695, 1045, 115           enon         0490         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Waba         0503         0503           VD2000         0521         Marantz         0539         Rotel         0623         Yamaha         0490, 0539, 0545           ateway         0575         Memorex         0695         Samsung         0490, 0573, 0820, 1075         Zenith         0503, 0591, 0741, 0803, 0869, 0754, 1521         Sansui         0695         Sansui         0591         Sansui         0695         Sansui         0591	Labs	0490	Lecson	1533	Dionoor	0525 0571 0621 0622	Symphonic	0675
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enon         0490         Magnavox         0503, 0539, 0646, 0675         Proscan         0522         Urban Concepts         0503           VD2000         0521         Marantz         0539         0646, 0675         RCA         0522, 0571, 0822         Xbox         0522           merson         0591, 0675         Marantz         0539         Rotel         0623         Yamaha         0490, 0539, 0545           nterprise         0591         McIntosh         1533         Sampo         0752         Yamaha         0490, 0539, 0545           ateway         1158         Memorex         0695         Samsung         0490, 0573, 0820, 1075         Zenith         0503, 0591, 0741, 0865           so Video         0741, 0833, 0869, 1075, 1158         NAD         0521, 1521         Sansui         0695         Sanyo         0695           VDD Recorder (         Po         NAD         0591, 0741         Sanyo         0695         Sanyo         0695           pex Digital         1056         Go Video         0741, 1158, 1304, 1730         Philips         0646         Sensory Science         1158           oby         1086         LG         0741         Polaroid         1086         Sharp         0675	CyberHome	0816, 1023, 1024, 1129	LiteOn	1158, 1440	Polk Audio	0539	Theta Digital	0571
isney         0675         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Urban Concepts         0503           VD2000         0521         Marantz         0539         Rotel         0623         Yamaha         0490, 0539, 0545           Interprise         0591         McIntosh         1533         Sampo         0752         Zenith         0503, 0539, 0545           unai         0675         Memorex         0695         Sampo         0752         Zenith         0503, 0591, 0741, 0869           iateway         1158         Microsoft         0522         Sansui         0695         Sansui         0695           io Video         0741, 0833, 0869, 1075, 1158, 1304, 1730         NAD         0591, 0741         Sansui         0695         Sanyo         0503, 0531, 0741, 053         NAD         NAD         0591, 0741         NAD         NAD         NAD         NAD         NAD         NAD	Daewoo	0833, 0869	Loewe	0511	Proceed	0672	Toshiba	0503, 0695, 1045, 1154
Isney         0675         Magnavox         0503, 0539, 0646, 0675         RCA         0522, 0571, 0822         Image and the second se	Denon	0490			Proscan	0522	- Urban Concents	0503
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Microsoft         0522         Samsung         0490, 0573, 0820, 1075           E         0522         Mitsubishi         0521, 1521         Sansui         0695           o Video         0741, 0833, 0869, 1075, 1158, 1304, 1730         NAD         0591, 0741         Sanyo         0695, 0873, 1967           OVD Recorder ( <sup>bvo</sup> )           pex Digital         1056         Go Video         0741, 1158, 1304, 1730         Philips         0646         Sensory Science         1158           oby         1086         JVC         1164, 1275         Pioneer         0631         Sharp         0675           oby         1086         LifeOn         1158, 1440         RCA         0522         Sony         1033, 1431           unai         0675         Magnavox         0646         Samsung         0490         Sylvania         0675	Enterprise				Sampo	0752	Zenith	0503, 0591, 0741,0869
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NEC         0785           OVD Recorder ( <sup>DVD</sup> )         NEC         0785           pex Digital         1056         Go Video         0741, 1158, 1304, 1730         Philips         0646         Sensory Science         1158           oby         1086         LG         0741         Ploneer         0631         Sensory Science         1158           yberHome         1129         LiteOn         1158, 1440         RCA         0522         Sony         1033, 1431           unai         0675         Magnavox         0646         Samsung         0490         Sylvania         0675	Go Video			,	Sanyo	0695, 0873, 1967		
pex Digital         1056         Go Video         0741, 1158, 1304, 1730         Philips         0646         Sensory Science         1158           spire Digital         1168         JVC         1164, 1275         Pioneer         0631         1158         1158           oby         1086         LG         0741         Polaroid         1086         Sharp         0675           yberHome         1129         LiteOn         1158, 1440         RCA         0522         Sony         1033, 1431           unai         0675         Magnavox         0646         Samsung         0490         Sylvania         0675		1158, 1304, 1730	NEC	0785				
spire Digital         1168         JVC         1164, 1275         Pioneer         0631         Sensory Science         1158           oby         1086         LG         0741         Polaroid         1086         Sharp         0675           yberHome         1129         LiteOn         1158, 1440         RCA         0522         Sony         1033, 1431           unai         0675         Magnavox         0646         Samsung         0490         Sylvania         0675	DVD Reco	rder ( 📩 )						
spire Digital         1168         JVC         1164, 1275         Ploneer         0631           oby         1086         LG         0741         Polaroid         1086         Sharp         0675           yberHome         1129         LiteOn         1158, 1440         RCA         0522         Sony         1033, 1431           unai         0675         Magnavox         0646         Samsung         0490         Sylvania         0675	Apex Digital	1056	Go Video	0741, 1158, 1304, 1730	Philips	0646	0	44.50
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	CyberHome	1129	LiteOn	1158, 1440	RCA	0522	Sony	1033, 1431
ateway 1158 Panasonic 0490, 1010, 1011 Zenith 0741	Funai	0675	Magnavox	0646	Samsung	0490	Sylvania	0675
	Gateway	1158	Panasonic	0490, 1010, 1011			Zenith	0741

# Ratings List for Channel Lock

"V-chip" technology enables you to lock out channels or shows according to standard ratings set by the entertainment industry. (p. 27)

### U.S. MOVIE RATINGS (MPAA)

Off	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.
	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.
Guidance	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>D,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/Ca	artoon 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.

# **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.

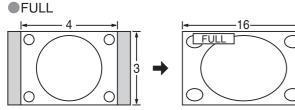
If a digital program is being output in analog format, the CC data will also be output in analog format.

If digital connected equipment is used for input, CC should be set to 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.

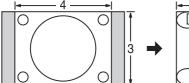
# Aspect Ratio

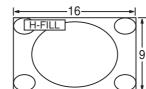
Let you choose the aspect depending on the format of the received signal and your preference. (p. 15)



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

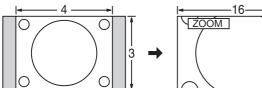
H-FILL





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

#### ZOOM

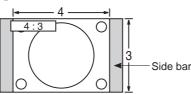


Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)

#### JUST 4 16 $\cap$ $\cap$ JU: 3 9

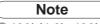
Stretches to justify the 4:3 image to the four corners of the screen. (Recommended for normal TV broadcast)







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



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

#### Zoom adjust

Vertical image position and size can be adjusted in "ZOOM." ①Select "Zoom adjust" on the Picture menu. (p. 20) 2 Vertical position adjustment



To reset the aspect ratio ОК



(OK)

Vertical size adjustment





	Data format for Card browsing
Photo:	Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF
Data format: Max. number of files: Image resolution:	standards Baseline JPEG 160X120-2,560X1,920 pixels (Sub-sampling: 4:4:4, 4:4:2 or 4:2:0) 9,999 8 x 8 to 5,120 x 3,840 * DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard
Partly degraded files r	ed with a PC cannot be displayed. night be displayed at a reduced resolution.
Note Folder structure viewe	d in PC
	————Created automatically
	3-digit folder number + 5-digit arbitrary characters
— P1000001.JF — P100002.JF — P100003.JF — P100004.JF	• Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
Suitable SD Memory 0	nes may be different depending on the digital camera used. Cards. Please confirm the latest information on the following website. pavc/global/cs (This site is in English only)
	DIGITAL AUDIO OUT terminals

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

#### Caution

• External speakers cannot be connected directly to PROG.OUT terminals.

When ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When NTSC channel is selected, the output will be PCM.

### Control with HDMI "HDAVI Control"

HDMI connections to some Panasonic equipment allow you to enjoy the easy playback or home theater.

Setup the equipment to enable this function. Read the manual of the equipment.

Switch the TV unit on again with the equipment on when connection or setup is changed.

This function may not work normally depending on the equipment condition.

The equipment can be operated by TV's remote control 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.

Easy playback is also available by using the remote control for Amplifier. Read the manuals of Amplifier.

# **Technical Information**

### **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 terminal 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 device 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 "HDMI1 in" or "HDMI2 in" menu screen. (p. 20)

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 device retailer shop.

• 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".
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.

• For details of the applicable HDMI signals, see below.

#### Input signal 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

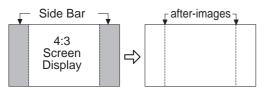
Signals other than those shown above may not be displayed properly.
 The above signals are reformatted for optimal viewing on your display.

#### Side Bar

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

To reduce the risk of such an after-image, change the brightness of the side bars.

The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (See below).



Vivid (default)
 Standard
 Cinema

#### Pic. mode

Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
Recommended for normal viewing conditions with subdued room lighting.
For watching movies in a darkened room. It provides a soft, film-like picture.

# Maintenance

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

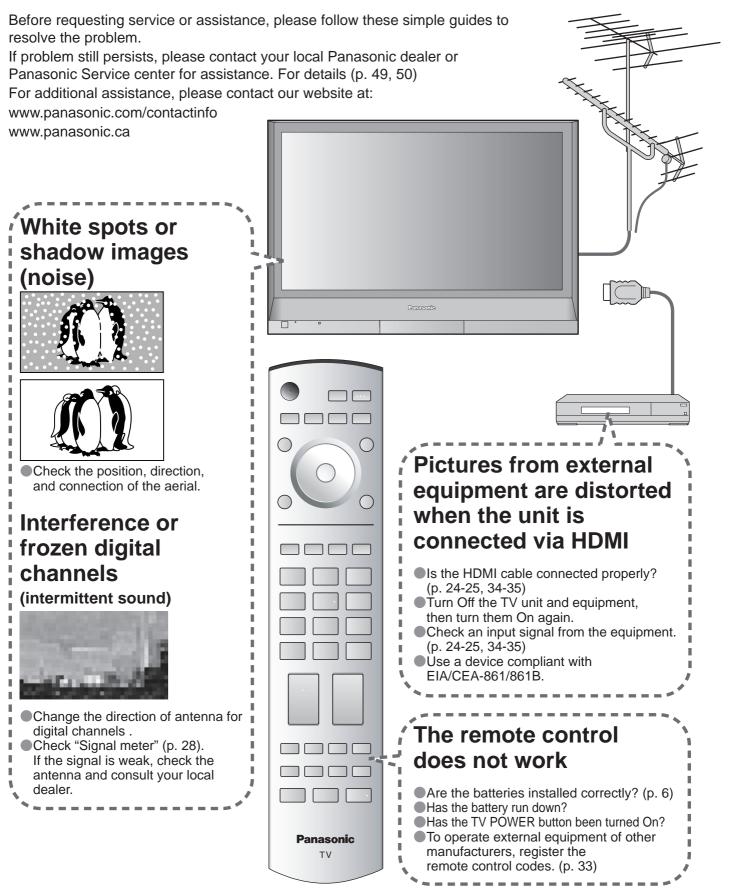
### Pedestal

#### Cleaning

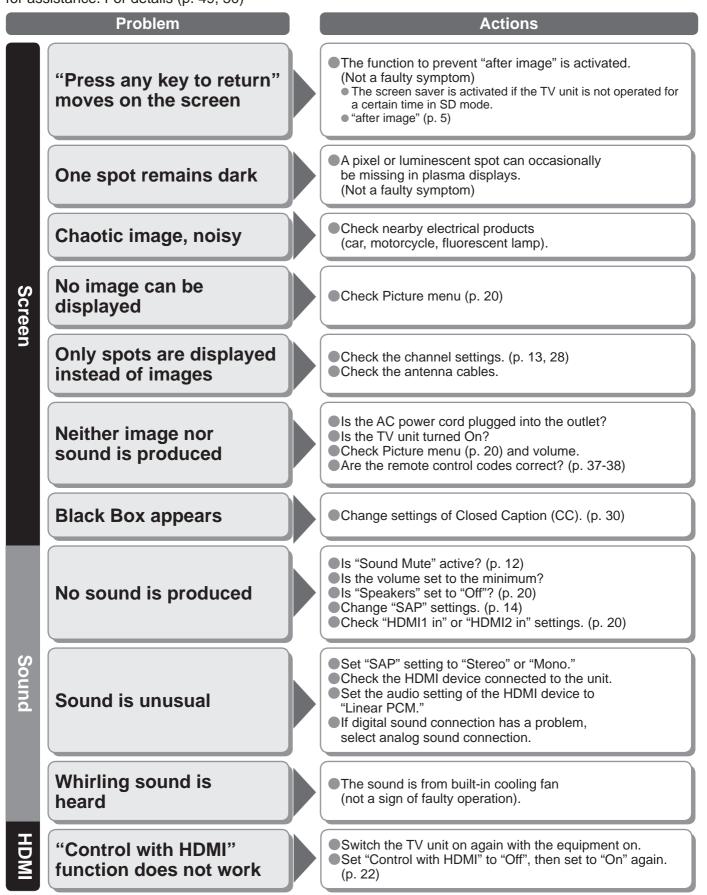
Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added, and then wipe with a dry cloth. Do not use products such as solvents, thinner or household wax for cleaning, as they can damage 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.)

# 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. 49, 50)

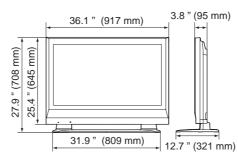


FAQs, etc.

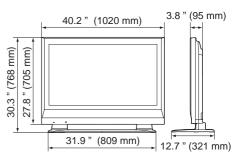
# **Specifications**

		TH-37PX60U	TH-42PX60U			
Powe	er Source	AC 120 V, 50 / 60 Hz				
Power Consumption	Maximum	323 W	390 W			
nption	Standby condition	0.2 W	0.2 W			
	Drive method	AC type				
Plasma panel	Aspect Ratio	16:9				
na	Contrast Ratio	(max) 10000:1	1			
Dis	Visible screen size	94 cmV	106 cmV			
Display	(W × H × Diagonal)	32.2 " × 18.2 " × 37.0 " (818 mm × 461 mm × 939 mm)	36.3 " × 20.4 " × 41.6 " (920 mm × 518 mm × 1,056 mm)			
	(No.of pixels)	737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots]	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]			
Sound	Speaker	4.8 " × 2.4 " (120 mm × 60 mm) × 2pcs, 8 Ω				
bur	Audio Output	20 W [10 W + 10 W] (10 % THD)				
Char (Digi	nnel Capability tal/Analog)	VHF/ UHF : 2-69, CATV:1-135				
Oper	ating Conditions	Temperature :         32 °F - 104 °F (0 °C - 40 °C)           Humidity :         20 % - 80 % RH (non-condensing)				
Co	INPUT 1-3	/IDEO :         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) C:0.286 V [p-p] (75 Ω)           AUDIO L - R :         RCA PIN Type × 2 0.5 V [rms]				
Connection Terminals	COMPONENT VIDEO INPUT 1-2	Y :       1.0 V [p-p] (including synchronization)         PB, PR:       ±0.35 V [p-p]         AUDIO L-R :       RCA PIN Type × 2 0.5 V [rms]				
n Ter	HDMI 1-2	TYPE A Connector AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]				
mir	Card slot	SD CARD slot × 1				
nals	AV PROG. OUT	VIDEO:         RCA PIN Type × 1 1.0 V [p-p] (75 Ω)           AUDIO L - R:         RCA PIN Type × 2 0.5 V [rms]				
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic				
FEATURES		3D Y/C FILTER CLOSED CAPTION V-Chip Photo Viewer				
Dimensions (W×H×D)	Including pedestal	36.1 " × 27.9 " × 12.7 " (917 mm × 708 mm × 321 mm)	40.2 " × 30.3 " × 12.7 " (1,020 mm × 768 mm × 321 mm)			
	TV Set only	36.1 " × 25.4 " × 3.8 " (917 mm × 645 mm × 95 mm)	40.2 " × 27.8 " × 3.8 " (1,020 mm × 705 mm × 95 mm)			
Weight	Including pedestal	61.7 lb. (28 kg)	70.5 lb. (32 kg)			
ight	TV Set only	57.3 lb. (26 kg)	66.1 lb. (30 kg)			

#### [TH-37PX60U]



#### [TH-42PX60U]

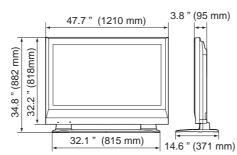


Note

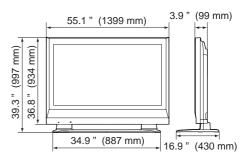
Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

		TH-50PX60U, TH-50PX60X	TH-58PX60U		
Power Source		AC 120 V, 50 / 60 Hz (TH-50PX60U, TH-58PX60U) AC 110 - 127 V, 50 / 60 Hz (TH-50PX60X)			
Power Consumption	Maximum	515 W	655 W		
nption	Standby condition	0.2 W	0.2 W		
ba Bi	Drive method	AC type			
Plasma panel	Aspect Ratio	16:9			
na	Contrast Ratio	(max) 10000:1			
Dis	Visible screen size	127 cmV	148 cmV		
Display	(W × H × Diagonal)	43.6 " × 24.5 " × 50.0 " (1,106 mm × 622 mm × 1,269 mm)	50.7 " × 28.5 " × 58.1 " (1,287 mm × 723 mm × 1,476 mm)		
	(No.of pixels)	1,049,088 (1,366 (W) × 768(H)) [4,098 × 768 dots]	1,049,088 (1,366 (W) × 768(H)) [4,098 × 768 dots]		
Sound	Speaker	4.8 " × 2.4 " (120 mm × 60 mm) × 2pcs, 8 Ω			
Ind	Audio Output	20 W [10 W + 10 W] (10 % THD)			
Char (Digi	nnel Capability tal/Analog)	VHF/ UHF : 2-69, CATV:1-135			
Ope	rating Conditions	Temperature :         32 °F - 104 °F (0 °C - 40 °C)           Humidity :         20 % - 80 % RH (non-condensing)			
Cc	INPUT 1-3	VIDEO :         RCA PIN Type x 1 1.0 V [p-p]           S-VIDEO :         Mini DIN 4-pin Y:1.0 V [p-p] (7           AUDIO L - R :         RCA PIN Type x 2 0.5 V [rms]	75 Ω) Ć:0.286 V [p-p] (75 Ω)		
Connection Terminals	COMPONENT VIDEO INPUT 1-2	Y :         1.0 V [p-p] (including synchro           PB, PR:         ±0.35 V [p-p]           AUDIO L-R :         RCA PIN Type × 2 0.5 V [rms			
n Ter	HDMI 1-2	TYPE A Connector AUDIO L-R: RCA PIN Type × 2 0.5 V [rms	5]		
min	Card slot	SD CARD slot × 1			
als	AV PROG. OUT	VIDEO:         RCA PIN Type x 1 1.0 V [p-p           AUDIO L - R:         RCA PIN Type x 2 0.5 V [rms]	·] (75 Ω) s]		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic			
FEA	TURES	3D Y/C FILTER CLOSED CAPTION V-Chip Photo Viewer			
Dimer (W×H	Including pedestal	47.7 " × 34.8 " × 14.6 " (1,210 mm × 882 mm × 371 mm)	55.1 " × 39.3 " × 16.9 " (1,399 mm × 997 mm × 430 mm)		
nensions × H × D )	TV Set only	47.7 " × 32.2 " × 3.8 " (1,210 mm × 818 mm × 95 mm)	55.1 " × 36.8 " × 3.9 " (1,399 mm × 934 mm × 99 mm)		
Weight	Including pedestal	93.7 lb. (42.5 kg)	138.9 lb. (63 kg)		
ght	TV Set only	88.2 lb. (40 kg)	130.1 lb. (59 kg)		

#### [TH-50PX60U, TH-50PX60X]



#### [TH-58PX60U]



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

FAQs, etc.

# Limited Warranty (for U.S.A.)

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

# Panasonic Color Television Limited Warranty

#### Limited Warranty Coverage

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

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

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

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

#### In-Home or Carry-in Service

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

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

#### Limited Warranty Limits And Exclusions

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

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

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

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. 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:

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

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

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

# **Accessory Purchases**

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

# http://www.pasc.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 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)

entre:	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<sup>™</sup> 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.

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NOTE

NOTE

#### **Customer's Record**

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

Model Number

Serial Number

#### Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey

07094 U.S.A.

#### Panasonic Canada Inc.

5770 Ambler Drive Mississauga, Ontario L4W 2T3 CANADA

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#### Panasonic Puerto Rico Inc. ("PSC") Ave. 65 de Infanteria, Km 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic De México S.A. De C.V.

Moras No.313, Col. Tlacoquemecatl Del Valle Del. Benito Juárez MÉXICO, D.F. C.P. 03200